# Task 210 - Subsurface Site Investigation
# 142 Willard Street
# Newington, Connecticut

Submitted to:
Connecticut Department of Transportation

September 28, 2009

TETRA TECH RIZZO

September 28, 2009

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Attention: Ms. Judith Nemecek / Ms. Amie Maines

**Re: Task 210 – Subsurface Site Investigation – DRAFT**
**DOT Project number 171-305**
**DOT Assignment 403-3526**
**TtR 127-17797-09011**
**142 Willard Street**
**Newington, Connecticut**

Dear Mr. Dorosh:

Tetra Tech Rizzo (Tetra Tech) is pleased to submit this report summarizing the findings of the Task 210 – Subsurface Site Investigation conducted at the 142 Willard Street property in Newington Connecticut (hereinafter referred to as the "Site"). This report was prepared to evaluate the Site for evidence of a release of oil and/or hazardous materials. The investigation included the advancement of 16 soil borings and the collection and analysis of 14 soil samples and three groundwater samples. Soil and groundwater sampling analytical results are compared to the Connecticut Department of Environmental Protection's (CT DEP's) Remediation Standard Regulations (RSRs).

The results and recommendations are presented in the attached report. Please contact us if you have any questions concerning this report.

Very truly yours,

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Senior Project Geologist

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Project Manager

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# 1.0 Introduction

On behalf of the Connecticut Department of Transportation (CT DOT), Tetra Tech Rizzo (Tetra Tech) has prepared this Task 210 - Subsurface Site Investigation for the property located at 142 Willard Street in Newington, Connecticut (**Figure 1**).

The objective of this investigation was to verify the presence or absence of subsurface contamination on the Site and to establish areas of environmental concern (AOECs), if applicable. Soil analytical data collected during the investigation was compared to the criteria prescribed in the Connecticut Remediation Standard Regulations (RSRs) (Regulations of the Connecticut State Agencies Sections 22a-133k-1 through 3 and 22a-133q-1). The Site area is not considered an Establishment as defined under Connecticut General Statutes 22a-134 to 134(d), as amended (the Connecticut Transfer Act) and therefore, the RSRs are used indirectly to assess the environmental quality of soil and groundwater and not to assess regulatory compliance.

## 1.1 Project Description

The Site is part of the location of the proposed Newington Junction Station for the CT DOT's New Britain-Hartford Busway, a 9.4 mile commuter busway that will run between New Britain and Hartford, Connecticut. The busway will be serviced by approximately 11 bus stations including the Newington Junction Station, proposed for the Site property. The Site is a 0.7 acre parcel of land formerly occupied by a Mobile service station. The Site is currently unoccupied. The Site building (the former service station) is still present on Site. Soil boring locations for the Site are presented on **Figure 2**. Soil borings were not completed inside the site structure.

The Connecticut Department of Environmental Protection's (DEP's) "Environmental GIS Data for Connecticut" (DEP, 2005) classifies groundwater in the project area as "GB". The GB designation indicates that groundwater may not be suitable for consumption due to waste discharges, spills or leaks of chemicals, or other land use impacts, and that a public water supply is available. The Site and its surrounding properties are reportedly connected to the public water supply system.

The Surficial Materials Map of Connecticut (Janet Radway Stone, and others 1992) indicates that soils in the vicinity of the Site are classified as "Till" and "Fines".

The Bedrock Geological Map of Connecticut (John Rodgers, 1985) indicates that the bedrock underlying the Site is classified as Portland Arkose.

The Site is located within the Piper Brook sub-region, within the Connecticut River Major Basin. The Site is relatively flat but the surrounding topography slopes slightly to the east towards the proposed busway.

## 1.2 Limitations

This report is subject to the limitations outlined in **Appendix A**. This study and report have been

prepared on behalf of and for the exclusive use of the DOT for use in an environmental evaluation of the Site.

# 2.0 Applicable RSR Criteria Overview

## 2.1 Soil

Using the Connecticut RSRs, soil is located within an Area of Environmental Concern (AOEC) when contaminants are detected at concentrations that exceed either the Direct Exposure Criteria (DEC) or the Pollutant Mobility Criteria (PMC).

### 2.1.1 Direct Exposure Criteria

The DEC are risk-based criteria that were established to identify the concentrations of contaminants that would not represent a significant risk to humans if exposed to the soil by direct contact or ingestion. Based on the varying exposure potentials, two types of soil criteria are considered for direct exposure: industrial/commercial (I/C DEC) and residential (R DEC).

### 2.1.2 Pollutant Mobility Criteria

The PMC were established to identify the potential risk to groundwater represented by contaminants leaching from soil located above the water table and depends upon the groundwater classification of the area (GA versus GB). The classification for groundwater at the Site is GB. Therefore, the analytical data collected during this investigation is compared to the GB PMC.

## 2.2 Groundwater

Groundwater was encountered between 3 and 7.5-feet below existing grade.

Groundwater beneath the Site is classified by the DEP as GB. This Task 210 Subsurface Investigation was prepared in accordance with the RSR criteria applicable to areas with GB classified groundwater.

### 2.2.1 Groundwater Protection Criteria (GWPC)

The Ground Water Protection Criteria (GWPC) was established to protect the quality of groundwater that has the potential to be a source of water supply. The site is classified GB, therefore the GWPC is not applicable to the site.

### 2.2.2 Surface Water Protection Criteria (SWPC)

The SWPC was established to protect the quality of surface waters for which groundwater

discharges to. There are no major surface water bodies located within a one-mile radius of the Site and no water bodies exist on the Site.

# 3.0 Scope of Investigation

Project activities included the advancement of 16 soil borings, analysis of 14 soil samples, and analysis of three groundwater samples.

## 3.1 Drilling

On August 27, 2009, a total of 16 soil borings, designated RSB-1 through 16, were advanced across the Site to characterize soil and assess potential environmental impacts. Logical Environmental Solutions of Tolland, Connecticut was retained to provide the services of a Geoprobe® direct push drill rig, which advances a 4-foot long by 2-inch diameter Macro-Core® sampling devise fitted with disposable, acetate sample tubes to the applicable depths. Field work was supervised by a Tetra Tech geologist. Boring locations are depicted on Figure 2. Soil borings were advanced to a maximum depth of 12-feet below grade (fbg). Boring logs describing the subsurface materials encountered in each soil boring are included in **Appendix B**.

## 3.2 Soil Sampling and Field Screening

Soil samples were collected from each soil boring from the ground surface to a depth of 8 to 12-fbg, and were screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). Soil samples were collected for analysis based upon field screening results, field observations (i.e., staining and/or odors), and/or spatial coverage. Soil samples collected for VOC analysis were collected in accordance with the DEP's "Guidance for Collecting and Preserving Soil and Sediment Samples for Laboratory Determination of Volatile Organic Compounds" (DEP, March 2006).

All soil samples were collected into pre-cleaned, laboratory-supplied glass containers, stored in ice at 4 degrees Celsius, and transported via laboratory courier to Spectrum Analytical Laboratories of Agawam, Massachusetts for analysis.

*Soil Analyses:*

Fourteen soil samples were collected from the soil borings at depths ranging from 0.5 to 8-fbg. Soil samples were not submitted for laboratory analysis from borings RSB-3 or 15. All 14 soil samples were analyzed for VOCs by Environmental Protection Agency (EPA) method 5035/8260, extractable total petroleum hydrocarbons (ETPH) by the Connecticut method, and mass analysis of the eight Resource Conservation and Recovery Act (RCRA) metals. Additionally, select soil samples were submitted for analysis of semi-volatile organic compounds (SVOCs) by EPA method 8270, polychlorinated biphenyls (PCBs) by EPA method 8082, and leachable RCRA eight metals using the Synthetic Precipitation Leaching Procedure (SPLP) methodology.

### 3.3 Groundwater Sampling

Grab groundwater samples were collected from select soil borings (RSB-10, 13 and 14) using temporary, dedicated, 1-inch diameter well screens installed directly into the bore hole. Groundwater samples were retrieved using a variable-speed peristaltic pump fitted with dedicated polyethylene and Tygon® tubing.

All groundwater samples were collected into pre-cleaned, laboratory-supplied glass and plastic containers, stored in ice at 4 degrees Celsius, and transported via laboratory courier to Spectrum Analytical Laboratories in Agawam, Massachusetts for analysis.

*Groundwater Analyses:*

All three groundwater samples were analyzed for VOCs by EPA method 8260, SVOCs by EPA method 8270, PCBs by EPA method 8082, ETPH by the Connecticut method, and total RCRA eight metals.

## 4.0 Results of Soil Sampling Analyses

A total of 14 soil samples were collected during this investigation. **Table 1** summarizes the soil sample results. Laboratory analytical reports and chain-of-custody records are included in **Appendix C**.

*Volatile Organic Compounds (VOCs)*

All 14 soil samples were submitted for VOC analysis. VOC exceedances are as follows:

- Soil sample RSB-1 (6.5-8') contained benzene at a concentration of 843 µg/kg (micrograms per kilogram). A re-analysis of this sample detected benzene at a concentration of 907 µg/kg. These concentrations exceed the 200 µg/kg GB PMC established for benzene.

- Sample RSB-7 (4-6') contained ethylbenzene at a concentration of 13,200 µg/kg. This concentration exceeds the 10,100 µg/kg GB PMC established for ethylbenzene.

- Sample RSB-8 (5.5-7') contained 1,2,4-trimethylbezene at a concentration of 101,000 µg/kg. This concentration exceeds the 70,000 µg/kg GB PMC established for 1,2,4-trimethylbenzene.

- Samples RSB-7 (4-6') and RSB-8 (5.5-7') contained total xylenes at concentrations of 92,400 µg/kg and 38,490 µg/kg, respectively. These concentrations exceed the 19,500 µg/kg GB PMC established for total xylenes.

Eight of the soil samples contained VOC concentrations which did not exceed the applicable criteria including:

- RSB-1 (6.5-8'): n-Butylbenzene, sec-butylbenzene, ethylbenzene, isopropylbenzene, 4-isopropyltoluene, naphthalene, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes;

- RSB-2 (6-8'): n-Butylbenzene, sec-butylbenzene, ethylbenzene, isopropylbenzene, naphthalene, n-propylbenzene, 1,2,4-trimethylbezene, 1,3,5-trimethylbenzene, and total xylenes;

- RSB-6 (3-6'): n-Butylbenzene, ethylbenzene, isopropylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes;

- RSB-7 (4-6'): n-Butylbenzene, isopropylbenzene, naphthalene, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene;

- RSB-8 (5.5-7'): n-Butylbenzene, ethylbenzene, naphthalene, n-propylbenzene, and 1,3,5-trimethylbenzene;

- RSB-9 (1.5-4'): Naphthalene;

- RSB-14 (6-8'): Methyl tert-butyl ether (MTBE);

- RSB-16 (6-7.5'): n-Butylbenzene, sec-butylbenzene, chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, isopropylbenzene, 4-isopropyltoluene, naphthalene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes.

Soil samples RSB-4 (5-7'), RSB-5 (2-4'), RSB-10 (6-8'), RSB-11 (1-4'), RSB-12 (5-8'), and RSB-13 (4-6') did not contain VOC concentrations detectable above the laboratory's detection limits.

*Semi-Volatile Organic Compounds (SVOCs)*

Five of the 14 soil samples were submitted for SVOC analysis. SVOCs were not detected in exceedance of the applicable RSR criteria in the samples.

Soil samples RSB-8 (5.5-7') and RSB-16 (6-7.5') each contained detectable concentrations of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene that did not exceed the RSR criteria. Soil samples RSB-2 (6-8'), RSB-4 (5-7'), and RSB-13 (4-6') did not contain concentrations of SVOCs detectable above the laboratory's detection limits.

*Polychlorinated Biphenyls (PCBs)*

Five of the 14 soil samples were submitted for PCB analysis. PCBs were not detected above the laboratory reporting limits in the samples.

*Extractable Total Petroleum Hydrocarbons (ETPH)*

All 14 soil samples were submitted for ETPH analysis. Soil sample RSB-16 (6-7.5') contained ETPH at a concentration of 4,240 mg/kg (milligrams per kilogram). This concentration exceeds the 500 mg/kg R DEC and the 2,500 mg/kg I/C DEC and GB PMC established for ETPH. None of the other soil samples contained ETPH in exceedance of the RSR criteria.

Soil samples RSB-4 (5-7'), RSB-7 (4-6'), and RSB-8 (5.5-7') contained ETPH concentrations of 202 mg/kg, 111 mg/kg and 277 mg/kg, respectively. These concentrations do not exceed the RSR criteria. Soil samples RSB-1 (6.5-8'), RSB-2 (6-8'), RSB-5 (2-4'), RSB-6 (3-6'), RSB-9 (1.5-4'), RSB-10 (6-8'), RSB-11 (1-4'), RSB-12 (5-8'), RSB-13 (4-6'), and RSB-14 (6-8') did not contain ETPH concentrations detectable above the laboratory's detection limits.

*Total RCRA 8 Metals*

All 14 soil samples were submitted for mass analysis of the eight RCRA metals. No total metals concentrations were detected in exceedance of the applicable RSR criteria. Numerous low-level concentrations of total metals, consistent with background concentrations for the area, were detected as follows:

- Arsenic: detected in all 14 samples, ranging from a low of 2.82 mg/kg to a high of 5.42 mg/kg;
- Barium: detected in all 14 samples ranging from a low of 76.7 mg/kg to a high of 219 mg/kg;
- Chromium: detected in all 14 samples, ranging from a low of 16.2 mg/kg to a high of 39.9 mg/kg;
- Lead: detected in all 14 samples, ranging from a low of 2.50 mg/kg to a high of 239 mg/kg;
- Mercury: detected in one sample, 0.242 mg/kg (RSB-7, 4-6');
- Silver: detected in one sample, 5.30 mg/kg (RSB-7 4-6').

Cadmium and selenium were not detected in the samples above the laboratory's reporting limits.

*Leachable (SPLP) RCRA 8 Metals*

Two of the 14 soil samples, RSB-8 (5.5-7') and RSB-16 (6-7.5'), were analyzed for leachable RCRA eight metals using the SPLP methodology. No leachable metals concentrations were detected in exceedance of the applicable RSR criteria. Leachable barium was detected in the samples at concentrations of 0.153 mg/L (milligrams per liter) and 0.0623 mg/L, respectively. Leachable chromium was detected in RSB-8 (5.5-7') at a concentration of 0.0167 mg/L. And, leachable lead was detected in RSB-16 (6-7.5') at a concentration of 0.0361 mg/L. These concentrations remain significantly lower than the RSR criteria.

## 5.0 Results of Groundwater Sampling Analyses

Groundwater samples were collected from soil borings RSB-10, 13, and 14 during this investigation. **Table 2** summarizes the groundwater results. Laboratory analytical reports are included in Appendix C.

*Volatile Organic Compounds (VOCs)*

All three groundwater samples were submitted for VOC analysis. VOCs were not detected in exceedance of the applicable RSR criteria in the samples.

Groundwater collected from RSB-10 contained chlorobenzene, MTBE, and naphthalene at concentrations that do not exceed the RSR criteria. RSB-13 and 14 did not contain VOCs at concentrations above the laboratory's detection limits.

*Semi-Volatile Organic Compounds (SVOCs)*

All three groundwater samples were submitted for SVOC analysis. SVOCs were not detected in exceedance of the applicable RSR criteria in the samples.

Groundwater collected from RSB-10 contained fluoranthene and pyrene at concentrations that do not exceed the RSR criteria. Groundwater collected from RSB-13 contained benzo(b)fluoranthene, fluoranthene, and pyrene at concentrations that do not exceed the RSR criteria. A duplicate groundwater sample was also collected at RSB-13 for quality assurance/quality control purposes. The RSB-13 duplicate groundwater sample contained benzo(b)fluoranthene, fluoranthene, and pyrene; in addition to benzo(a)pyrene, benzo(g,h,i)perylene, and benzo(k)fluoranthene, all at concentrations that do not exceed the RSR criteria.

*Polychlorinated Biphenyls (PCBs)*

All three groundwater samples were submitted for PCB analysis. PCBs were not detected above the laboratory reporting limits.

*Extractable Total Petroleum Hydrocarbons (ETPH)*

All three groundwater samples were submitted for ETPH analysis. Currently, there is no RSR criteria applicable for ETPH in areas with GB classified groundwater. Groundwater collected from soil borings RSB-13 and RSB-14 contained ETPH at 0.8 mg/L (milligrams per liter) and 0.5 mg/L, respectively. ETPH were not detected above the laboratory reporting limits in groundwater collected from RSB-10.

*Total RCRA 8 Metals*

All three groundwater samples were submitted for total RCRA eight metals analysis.

Total arsenic and/or lead were detected in exceedance of the applicable RSR criteria in the three groundwater samples, which can be attributed to turbid water collected during sampling.

- Arsenic: RSB-10, RSB-13 and RSB-14 contained arsenic at 0.0088 mg/L, 0.0105 mg/L and 0.0089 mg/L, respectively. These concentrations exceed the 0.004 mg/L SWPC established for arsenic.

- Lead: RSB-13 and RSB-14 contained lead at 0.100 mg/L and 0.111 mg/L, respectively. These concentrations exceed the 0.013 mg/L SWPC established for lead.

- Barium (3 samples), cadmium (1 sample), chromium (3 samples), and mercury (1 sample) were detected at concentrations above the laboratory's detection limits that do not exceed the RSR criteria.

- Selenium and silver were not detected in any of the three groundwater samples above the laboratory reporting limits.

Groundwater samples were collected as unfiltered, grab samples from temporary wells, not from developed, permanent monitoring wells that typically yield results that are considered representative of actual groundwater quality. The presence of metals at concentrations that exceed the RSR criteria is more a reflection of turbid water being present during sample collection than of the actual quality of the groundwater. The presence of metals indicates that filtration or another type of pretreatment should be considered if dewatering is anticipated during construction.

## 6.0 Quality Assurance/Quality Control

Three quality assurance/quality control (QA/QC) samples were collected during this investigation. QA/QC samples were collected as one trip blank and two duplicate samples: one soil and one groundwater. **Table 3** contains the QA/QC laboratory analytical results. Laboratory analytical reports are included in Appendix C.

Trip blanks are vials of de-ionized water that accompany groundwater VOC samples from the time of sample collection, through the transportation process, to the time of sample analysis. The trip blanks were analyzed for VOCs by EPA method 8260. Trip blanks are used to determine if cross-contamination has occurred during the sample storage and delivery process. The VOC results for the trip blank were "non-detect" indicating that cross-contamination had been avoided.

The soil duplicate sample was collected on sample RSB-12 (5-8'). The groundwater duplicate sample was collected at soil boring RSB-13. Duplicate samples are used to determine if sound laboratory procedures are being implemented by comparing the analytical results of the original sample with the duplicate sample, the later being unknown to the lab. The soil duplicate sample was submitted for analysis of VOCs by EPA method 5035/8260, ETPH by the CT method, and total RCRA eight metals. The results of both the original and the duplicate sample are similar,

indicating solid laboratory performance. The groundwater duplicate sample was submitted for analysis of VOCs by EPA method 8260, SVOCs by EPA method 8270, PCBs by EPA method 8082, ETPH by the Connecticut method, and total RCRA 8 metals. The SVOCs benzo(a)pyrene, benzo(g,h,i)perylene, and benzo(k)fluoranthene were detected in the duplicate sample and not the original RSB-13 sample. No VOCs or PCBs were detected in either the duplicate or the original sample. ETPH were detected at 0.8 mg/L in both samples, and total metals concentrations were similar in both as well. Other than the three SVOCs, the groundwater duplicate sample results were similar, indicating solid laboratory performance.

## 7.0 Conclusions

This Task 210 – Subsurface Site Investigation was conducted on August 27, 2009. All project activities were conducted in accordance with industry standards.

*Soil*

VOCs were detected in exceedance of the RSR criteria in three of the soil samples submitted for analysis, while ETPH were detected in exceedance of the RSR criteria in one of the submitted samples.

Low-level concentrations of VOCs, SVOCs, ETPH, total RCRA eight metals, and leachable RCRA eight metals were detected the soil samples. The concentrations of total and leachable metals appear consistent with naturally occurring background metals concentrations for the region.

PCBs were not detected above the laboratory's detection limits in any of the samples.

*Groundwater*

Total arsenic and/or lead were detected in exceedance of applicable criteria in one or more of the groundwater samples. Groundwater samples were collected as unfiltered, grab samples from temporary wells, not from developed, permanent monitoring wells that typically yield results that are considered representative of actual groundwater quality. The presence of metals at concentrations that exceed the RSR criteria may be a reflection more of turbid water than of the actual groundwater quality.

Low-level concentrations of VOCs, SVOCs, and total metals were detected in one or more of the groundwater samples at concentrations that do not exceed the RSR criteria.

ETPH were detected in two of the three groundwater samples. Currently, there is no RSR criteria established for ETPH in groundwater in GB classified areas.

PCBs were not detected above laboratory reporting limits in the groundwater samples submitted for analysis.

The presence of VOCs and ETPH in Site soil and groundwater combined with low levels of a few SVOCs appears to be related to historic releases associated with the former gasoline filling station and general automotive work that would have occurred within the Site building.

Previous environmental investigations as conducted by others (GES, November 2008) indicate that remedial excavation had been conducted on the Site in the vicinity of a former fuel oil underground storage tank (UST), former gasoline USTs, the former storm sewer, former hydraulic lift and bay drains (located within the Site building), and former oil/water separator. The previous investigations also indicate that residual contamination still exists in these areas. Particularly, ETPH existing beneath the sub-slab of the Site building related to the former bay drain and hydraulic lift system. Access to the interior of the Site building was not achieved during this investigation.

## 8.0 Recommendations

Areas where contaminants of concern exceed the RSR criteria should be designated as areas of environmental concern (AOECs). VOCs were found in exceedance of the RSR criteria near the former fuel dispenser pump island and storm sewer excavation, while ETPH were detected in exceedance of the RSR criteria south of the Site building. These areas should be designated as AOECs. ETPH, as detected by others, has been found in exceedance of the RSR criteria beneath the sub-slab of the Site building. Due to access restrictions, this investigation did not include areas within the Site building. Building sub-slab soils should be designated as an AOEC based upon the previous findings. Task 310 plans and specifications are recommended for the areas of construction within the AOECs.

Areas where the results are above the laboratory detection limits but below RSR criteria should be designated as low level areas of environmental concern (LLAOECs). Soil excavated from a LLAOEC may be reused within the limits of the project if deemed suitable. If not, then the soil would require off-site disposal. Therefore, Task 310 plans and specifications are recommended for the areas of construction within the LLAOECs with consideration for reuse of LLAOEC soil. Metals were not detected in exceedance of the RSR criteria in Site soils.

VOCs, SVOCs and ETPH were detected in Site groundwater samples at concentrations that do not exceed the RSR criteria. Metals exceedances in Site groundwater appear attributable to the presence of turbid water and should not justify a groundwater AOEC.

# Table 1
## Summary of Soil Sampling Analytical Data
## Task 210: 142 Willard Avenue,
## Newington, Connecticut

| Sample Location | | | | RSB-1 | | RSB-2 | RSB-4 | RSB-5 | RSB-6 | RSB-7 | RSB-8 | RSB-9 | | RSB-10 | RSB-11 | RSB-12 | RSB-13 | RSB-14 | RSB-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth Interval (feet) | | | | (6.5-8') | (6.5-8') | (6-8') | (5-7') | (2-4') | (3-6') | (4-6') | (5.5-7') | (1.5-4') | (1.5-4') | (6-8') | (1-4') | (5-8') | (4-6') | (6-8') | (6-7.5') |
| Laboratory I.D. | | | | SB00047-09 | Re-Analysis | SB00047-10 | SB00047-12 | SB00047-11 | SB00047-05 | SB00047-06 | SB00047-07 | SB00047-08 | Re-Analysis | SB00047-01 | SB00047-03 | SB00047-04 | SB00047-14 | SB00047-16 | SB00047-19 |
| Sample Date | | | | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 | 8/27/2009 |
| | Remediation Standard Regulations (RSRs) | | | | | | | | | | | | | | | | | | |
| | Res DEC | I/C DEC | GB PMC | | | | | | | | | | | | | | | | |
| **Volatile Organic Compounds (VOCs) by EPA Method 5035/8260 (ug/kg)** | | | | | | | | | | | | | | | | | | | |
| Benzene | 21,000 | 200,000 | 200 | **843** | **907** | <606 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | <148 |
| n-Butylbenzene | 500,000 | 1,000,000 | 14,000 | 757 | 789 | 1,770 | <65.0 | <5.6 | 74.8 | 2,030 | 6,620 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 1,970 |
| sec-Butylbenzene | 500,000 | 1,000,000 | 14,000 | 369 | 402 | 745 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 815 |
| Chlorobenzene | 500,000 | 1,000,000 | 20,000 | <73.9 | <296 | <606 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 646 |
| 1,2-Dichlorobenzene | 500,000 | 1,000,000 | 3,100 | <73.9 | <296 | <606 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 200 |
| 1,3-Dichlorobenzene | 500,000 | 1,000,000 | 120,000 | <73.9 | <296 | <606 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 267 |
| 1,4-Dichlorobenzene | 26,000 | 240,000 | 15,000 | <73.9 | <296 | <606 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 446 |
| Ethylbenzene | 500,000 | 1,000,000 | 10,100 | 4,950 | 5,080 | 8,350 | <65.0 | <5.6 | 192 | **13,200** | 5,860 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | <148 |
| Isopropylbenzene | 500,000 | 1,000,000 | 132,000 | 723 | 757 | 1,600 | <65.0 | <5.6 | 106 | 1,710 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 464 |
| 4-Isopropyltoluene | 500,000 | 1,000,000 | 41,800 | 185 | <296 | <606 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 470 |
| Methyl tert-butyl Ether (MTBE) | 500,000 | 1,000,000 | 20,000 | <73.9 | <296 | <606 | <65.0 | <5.6 | <66.2 | <1,200 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | 6.2 | <148 |
| Naphthalene | 1,000,000 | 2,500,000 | 56,000 | 1,430 | 2,340 | 3,390 | <65.0 | <5.6 | <66.2 | 4,010 | 4,620 | 111 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 8,370 |
| n-Propylbenzene | 500,000 | 1,000,000 | 14,000 | 2,690 | 2,720 | 5,810 | <65.0 | <5.6 | 330 | 5,950 | 10,600 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 1,960 |
| Toluene | 500,000 | 1,000,000 | 67,000 | 80.5 | <296 | <606 | <65.0 | <5.6 | <66.2 | 15,800 | <2,640 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | <148 |
| 1,2,4-Trimethylbenzene | 500,000 | 1,000,000 | 70,000 | 15,000 | 14,400 | 34,600 | <65.0 | <5.6 | 313 | 60,700 | **101,000** | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 2,580 |
| 1,3,5-Trimethylbenzene | 500,000 | 1,000,000 | 70,000 | 2,770 | 2,750 | 10,900 | <65.0 | <5.6 | 154 | 22,000 | 38,700 | <67.8 | <6.6 | <5.4 | <5.1 | <58.2 | <6.5 | <5.7 | 295 |
| Total Xylenes | 500,000 | 1,000,000 | 19,500 | 5,760 | 5,840 | 14,400 | <195 | <16.8 | 280 | **92,400** | **38,490** | <203.8 | <19.7 | <16.2 | <15.4 | <174.2 | <19.4 | <17.2 | 590 |
| **Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 (ug/kg)** | | | | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | NE | NE | NE | NA | NA | <262 | <292 | NA | NA | NA | 2,380 | NA | NA | NA | NA | NA | <300 | NA | 1,250 |
| 2-Methylnaphthalene | 474,000 | 2,500,000 | 9,800 | NA | NA | <262 | <292 | NA | NA | NA | 4,800 | NA | NA | NA | NA | NA | <300 | NA | 1,790 |
| Naphthalene | 1,000,000 | 2,500,000 | 56,000 | NA | NA | <262 | <292 | NA | NA | NA | 2,210 | NA | NA | NA | NA | NA | <300 | NA | 1,670 |
| **Polychlorinated Biphenyls (PCBs) by EPA Method 8082 (ug/kg)** | | | | | | | | | | | | | | | | | | | |
| All PCB Analytes | 1,000 | 10,000 | NE | NA | NA | <20.8 | <23.4 | NA | NA | NA | <24.7 | NA | NA | NA | NA | NA | NA | <22.0 | <23.0 |
| **Extractable Total Petroleum Hydrocarbons (ETPH) by the Connecticut Method (mg/kg)** | | | | | | | | | | | | | | | | | | | |
| ETPH | 500 | 2,500 | 2,500 | <46.9 | NA | <21.1 | 202 | <30.7 | <39.2 | 111 | 277 | <31.4 | NA | <29.1 | <27.4 | <31.0 | <24.2 | <31.8 | **4,240** |
| **Total RCRA 8 Metals (mg/kg)** | | | | | | | | | | | | | | | | | | | |
| Arsenic | 10 | 10 | NE | 5.42 | NA | 5.14 | 3.91 | 2.82 | 2.88 | 3.99 | 3.79 | 4.13 | NA | 4.07 | 3.63 | 4.21 | 4.42 | 4.28 | 3.73 |
| Barium | 4,700 | 140,000 | NE | 218 | NA | 104 | 159 | 76.7 | 136 | 175 | 219 | 151 | NA | 84.9 | 78.7 | 165 | 141 | 154 | 104 |
| Cadmium | 34 | 1,000 | NE | <0.562 | NA | <0.556 | <0.588 | <0.556 | <0.517 | <0.582 | <0.540 | <0.517 | NA | <0.550 | <0.487 | <0.540 | <0.592 | <0.598 | <0.592 |
| Chromium | NE | NE | NE | 31.9 | NA | 19.2 | 26.4 | 16.2 | 17.3 | 23.2 | 34.8 | 24.8 | NA | 39.9 | 28.8 | 24.8 | 26.4 | 28.0 | 18.8 |
| Lead | 400 | 1,000 | NE | 10.6 | NA | 9.24 | 9.44 | 10.6 | 7.05 | 64.8 | 14.7 | 9.49 | NA | 2.82 | 2.50 | 6.06 | 9.73 | 9.90 | 239 |
| Mercury | 20 | 610 | NE | <0.0377 | NA | <0.0305 | <0.0366 | <0.0329 | <0.0356 | 0.242 | <0.0352 | <0.0355 | NA | <0.0335 | <0.0287 | <0.0337 | <0.0366 | <0.0338 | <0.0354 |
| Selenium | 340 | 10,000 | NE | <1.69 | NA | <1.67 | <1.77 | <1.67 | <1.55 | <1.75 | <1.62 | <1.55 | NA | <1.65 | <1.46 | <1.62 | <1.78 | <1.80 | <1.78 |
| Silver | 340 | 10,000 | NE | <1.69 | NA | <1.67 | <1.77 | <1.67 | <1.55 | 5.30 | <1.62 | <1.55 | NA | <1.65 | <1.46 | <1.62 | <1.78 | <1.80 | <1.78 |
| **SPLP RCRA 8 Metals (mg/L)** | | | | | | | | | | | | | | | | | | | |
| Arsenic | NE | NE | 0.5 | NA | NA | NA | NA | NA | NA | NA | <0.0080 | NA | NA | NA | NA | NA | NA | NA | <0.0080 |
| Barium | NE | NE | 10 | NA | NA | NA | NA | NA | NA | NA | 0.153 | NA | NA | NA | NA | NA | NA | NA | 0.0623 |
| Cadmium | NE | NE | 0.05 | NA | NA | NA | NA | NA | NA | NA | <0.0050 | NA | NA | NA | NA | NA | NA | NA | <0.0050 |
| Chromium | NE | NE | 0.5 | NA | NA | NA | NA | NA | NA | NA | 0.0167 | NA | NA | NA | NA | NA | NA | NA | <0.0100 |
| Lead | NE | NE | 0.15 | NA | NA | NA | NA | NA | NA | NA | <0.0150 | NA | NA | NA | NA | NA | NA | NA | 0.0361 |
| Mercury | NE | NE | 0.02 | NA | NA | NA | NA | NA | NA | NA | <0.00020 | NA | NA | NA | NA | NA | NA | NA | <0.00020 |
| Selenium | NE | NE | 0.5 | NA | NA | NA | NA | NA | NA | NA | <0.0300 | NA | NA | NA | NA | NA | NA | NA | <0.0300 |
| Silver | NE | NE | 0.36 | NA | NA | NA | NA | NA | NA | NA | <0.0100 | NA | NA | NA | NA | NA | NA | NA | <0.0100 |

Notes:
RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = Pollutant Mobility Criteria for Areas with GB Classified Groundwater
EPA = Environmental Protection Agency
RCRA = Resource Conservation and Recovery Act
SPLP = Synthetic Precipitation Leaching Procedure
NE = Not established NA = Not Analyzed
**Bold** type indicates an exceedance of the regulatory criteria.
< = Not detected above laboratory reportable detection limits.
ug/kg = microgram per kilogram mg/kg = milligram per kilogram
ug/L = micrograms per liter mg/L = milligrams per liter

# Table 2
# Summary of Groundwater Sampling Analytical Data
# Task 210: 142 Willard Avenue
# Newington, Connecticut

| Sample Location<br>Laboratory I.D<br>Sample Date | Remediation Standard Regulations (RSRs)<br>SWPC | <br>Res VC | <br>I/C VC | RSB-10<br>SB00047-02<br>8/27/2009 | RSB-13<br>SB00047-15<br>8/27/2009 | RSB-14<br>SB00047-17<br>8/27/2009 |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds (VOCs) by EPA Method 8260 (ug/L)** | | | | | | |
| Chlorobenzene | 420,000 | 1,800 | 6,150/23,000 | 1.0 | <1.0 | <1.0 |
| Methyl tert-butyl Ether (MTBE) | NE | 50,000/21,000 | 50,000 | 1.0 | <1.0 | <1.0 |
| Naphthalene | NE | NE | NE | 1.2 | <1.0 | <1.0 |
| **Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 (ug/L)** | | | | | | |
| Benzo(b)fluoranthene | 0.08 | 0.3 | NE | <0.050 | 0.053 | <0.050 |
| Fluoranthene | 280 | 3,700 | NE | 0.194 | 0.095 | <0.050 |
| Pyrene | 110,000 | NE | NE | 0.204 | 0.074 | <0.050 |
| **Polychlorinated Biphenyls by EPA Method 8082 (ug/L)** | | | | | | |
| All PCBs | 0.5 | NE | NE | <0.233 | <0.211 | <0.213 |
| **Extractable Total Petroleum Hydrocarbons (ETPH) by the CT Method (mg/L)** | | | | | | |
| ETPH | NE | NE | NE | <0.1 | 0.8 | 0.5 |
| **Total RCRA 8 Metals by EPA 6000/7000 Series Methods (mg/L)** | | | | | | |
| Arsenic | 0.004 | NE | NE | **0.0088** | **0.0105** | **0.0089** |
| Barium | NE | NE | NE | 0.102 | 0.427 | 0.289 |
| Cadmium | 0.006 | NE | NE | <0.0025 | <0.0025 | 0.0026 |
| Chromium | NE | NE | NE | 0.0117 | 0.0414 | 0.0354 |
| Lead | 0.013 | NE | NE | <0.0075 | **0.100** | **0.111** |
| Mercury | 0.0004 | NE | NE | <0.00020 | <0.00020 | 0.00021 |
| Selenium | 0.05 | NE | NE | <0.0150 | <0.0150 | <0.0150 |
| Silver | 0.012 | NE | NE | <0.0050 | <0.0050 | <0.0050 |

Notes:
SWPC = Surface Water Protection Criteria
Res VC = Residential Volatilization Criteria
I/C VC = Industrial/Commercial Volatilization Criteria
mg/L = milligrams per liter ug/L = micrograms per liter
NA = Not Analyzed NE = Not Established
Red type indicates proposed RSR criteria not yet promulgated.
**Bold** type indicates an exceedance of the RSR criteria.
Only those VOC analytes detected are listed.
< = Analyte not detected above the laboratory's reportable detection limit.

# Table 3
## Summary of Quality Assurance/Quality Control Analytical Data
## Task 210: 142 Willard Avenue, Newington, Connecticut

| Sample Location<br>Depth Interval (feet)<br>Laboratory I.D.<br>Sample Date | RSB-12<br>(5-8')<br>SB00047-04<br>8/27/2009 | RSB-12 (Duplicate)<br>(5-8')<br>SB00047-20<br>8/27/2009 | RSB-13<br>Aqueous<br>SB00047-15<br>8/27/2009 | RSB-13 (Duplicate)<br>Aqueous<br>SB00047-21<br>8/27/2009 | Trip Blank<br>Aqueous<br>SB00047-22<br>8/27/2009 |
|---|---|---|---|---|---|
| **Volatile Organic Compounds (VOCs) by EPA Method 5035/8260 (ug/kg)** | | | | | |
| Benzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| n-Butylbenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| sec-Butylbenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| Chlorobenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichlorobenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| 1,3-Dichlorobenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| 1,4-Dichlorobenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| Ethylbenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| Isopropylbenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| 4-Isopropyltoluene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| Methyl tert-butyl Ether (MTBE) | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| Naphthalene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| n-Propylbenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| Toluene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| 1,2,4-Trimethylbenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | <58.2 | <76.6 | <1.0 | <1.0 | <1.0 |
| Total Xylenes | <174.2 | <229.6 | <3.0 | <3.0 | <3.0 |
| **Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 (ug/kg)** | | | | | |
| Benzo(a)pyrene | NA | NA | <0.050 | 0.083 | NA |
| Benzo(b)fluoranthene | NA | NA | 0.053 | 0.095 | NA |
| Benzo(g,h,i)perylene | NA | NA | <0.050 | 0.071 | NA |
| Benzo(k)fluoranthene | NA | NA | <0.050 | 0.071 | NA |
| Fluoranthene | NA | NA | 0.095 | 0.179 | NA |
| Pyrene | NA | NA | 0.074 | 0.143 | NA |
| **Polychlorinated Biphenyls (PCBs) by EPA Method 8082 (ug/kg)** | | | | | |
| All PCB Analytes | NA | NA | <0.211 | <0.222 | NA |
| **Extractable Total Petroleum Hydrocarbons (ETPH) by the CT Method (mg/kg)** | | | | | |
| ETPH | <31.0 | <34.5 | 0.8 | 0.8 | NA |
| **Total RCRA 8 Metals (mg/kg)** | | | | | |
| Arsenic | 4.21 | 5.69 | 0.0105 | 0.0126 | NA |
| Barium | 165 | 246 | 0.427 | 0.570 | NA |
| Cadmium | <0.540 | <0.557 | <0.0025 | 0.0032 | NA |
| Chromium | 24.8 | 39.0 | 0.0414 | 0.0600 | NA |
| Lead | 6.06 | 12.6 | 0.100 | 0.156 | NA |
| Mercury | <0.0337 | <0.0341 | <0.00020 | 0.00028 | NA |
| Selenium | <1.62 | <1.67 | <0.0150 | <0.0150 | NA |
| Silver | <1.62 | <1.67 | <0.0050 | <0.0050 | NA |
| **SPLP RCRA 8 Metals (mg/L)** | | | | | |
| Arsenic | NA | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA | NA |

Notes:
EPA = Environmental Protection Agency
RCRA = Resource Conservation and Recovery Act
SPLP = Synthetic Precipitation Leaching Procedure
NE = Not established NA = Not Analyzed
**Bold** type indicates an exceedance of the regulatory criteria.
< = Not detected above laboratory reportable detection limits.
ug/kg = microgram per kilogram mg/kg = milligram per kilogram

NOTE: DISTANCE RADII MEASURED FROM THE APPROXIMATE CENTER OF SITE PROPERTY.

127-17797-09011G-ESL01.dwg

0 2,000± Feet

TETRA TECH RIZZO

Information obtained from
USGS Map of New Britain, Connecticut
Quadrangle dated 1966, Photorevised 1992
USGS Hartford South, Connecticut
Quadrangle dated 1964, Photorevised 1992

New Britain - Hartford Busway
142-144 Willard Avenue
Newington, Connecticut

Figure
1

Site Location Map

J:\Project\127-17797-09011\Graphic\127-17797-09011G-ESL01.dwg 5/15/2009 11:36:16 AM EDT

PLAN REFERENCES:

1. EXISTING PLANIMETRIC BASE MAPPING OBTAINED FROM MICHAEL BAKER CORP. "PROJECTWISE" FTP WEBSITE.
2. PROPOSED BUSWAY, STATION, AND AMTRAK ACCESS ROAD OBTAINED FROM MICHAEL BAKER CORP. "PROJECTWISE" FTP WEBSITE.
3. PROPERTY MAP FOR 142-144 WILLARD AVENUE, NEWINGTON OBTAINED FROM TOWN OF NEWINGTON ENGINEERING DEPARTMENT.

LEGEND

RSB-1 + SOIL BORING LOCATION

126 WILLARD AVENUE

PROPOSED AMTRAK ACCESS ROAD

PROPOSED BUSWAY & NEWINGTON JUNCTION STATION

FORMER OIL/WATER SEPARATOR

4" CLF

RSB-1 RSB-2 RSB-3 RSB-4 RSB-5 RSB-6 RSB-7 RSB-8 RSB-9 RSB-10 RSB-11 RSB-12 RSB-13 RSB-14 RSB-15 RSB-16

APPROX. LIMIT OF EXCAVATION

E-EX-E

GES-7 GES-8 GES-9D GES-9S GES-10

FORMER FUEL DISPENSER (TYP.)

HL1-N HL2-N HL1-W UNKNOWN-W1

142-144 WILLARD AVENUE

FORMER UST LOCATION

12" WATER MAIN

24" WATER MAIN

2" WATER MAIN

SUPPORT POLE

HHD

WILLARD AVENUE

WEST HILL ROAD

146 WILLARD AVENUE

150 WILLARD AVENUE

RETAINING WALL

CONC WALL

CHAINLINK FENCE

F.O. POST

FIBER OPTIC CABLE

INC 1H

U/G AMTRAK SIG

INC 1F2

INC 1F4 INC 1F5

AMTRAK

RR BASELINE

CE 201-9 CE 208 CE 207

EL 65'

165'±00

607+00 608+00 609+00 729+00 730+00 731+00 732+00 241+00 242+00 243+00 244+00 245+00 509+00 510+00 511+00 512+00 513+00

TETRA TECH RIZZO

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www.tetratechrizzo.com

Project Title
New Britain-Hartford Busway
142-144 Willard Avenue
Newington, CT

Sheet Title
Soil Boring Location Plan

0 40'±
Scale In Feet

Job No.: 127-17797-09011
Date: 2009-09-29
Sheet No. 2
File Name: 127-17797-09011-E10-142WillardP-BSP01.dgn

## Appendix A: Limitations

1. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this report was carried out in accordance with the Terms and Conditions in our contract.

2. In preparing this report, Tetra Tech Rizzo has relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to Tetra Tech Rizzo at the time of the site assessment. Although there may have been some degree of overlap in the information provided by these various sources, Tetra Tech Rizzo did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.

3. Observations were made of the Site and of structures on the Site as indicated within the report. Where access to portions of the Site or to structures on the Site was unavailable or limited, Tetra Tech Rizzo renders no opinion as to the presence of hazardous materials or oil, or to the presence of indirect evidence relating to hazardous material or oil, in that portion of the Site or structure. In addition, Tetra Tech Rizzo renders no opinion as to the presence of hazardous material or oil, or the presence of indirect evidence relating to hazardous material or oil, where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces.

4. Tetra Tech Rizzo did not perform testing or analyses to determine the presence or concentration of asbestos at the Site or in the environment at the Site.

5. It is ENGINEER's understanding that the purpose of this report is to assess the physical characteristics of the subject Site with respect to the presence on the Site of hazardous material or oil. This stated purpose has been a significant factor in determining the scope and level of services provided for in the Agreement. Should the purpose for which the Report is to be used or the proposed use of the site(s) change, this Report is no longer valid and use of this Report by CLIENT or others without ENGINEER's review and written authorization shall be at the user's sole risk. Should ENGINEER be required to review the Report after its date of submission, ENGINEER shall be entitled to additional compensation at then existing rates or such other terms as agreed between ENGINEER and the CLIENT.

6. The conclusions and recommendations contained in this report are based in part, where noted, upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

7. Any water level readings made in test pits, borings, and/or observation wells were made at the times and under the conditions stated on the report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

8. Except as noted within the text of the report, no quantitative laboratory testing was performed as part of the site assessment. Where such analyses have been conducted by an outside laboratory, Tetra Tech Rizzo has relied upon the data provided and has not conducted an independent evaluation of the reliability of these data.

9. The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As indicated within the report, some of these data may be preliminary screening level data and should be confirmed with quantitative analyses if more specific information 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 should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

10. Chemical analyses have been performed for specific constituents during the course of this site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the Site.

11. This Report was prepared for the exclusive use of the CLIENT. No other party is entitled to rely on the conclusions, observations, specifications, or data contained therein without the express written consent of ENGINEER.

12. The observations and conclusions described in this Report are based solely on the Scope of Services provided pursuant to the Agreement. ENGINEER has not performed any additional observations, investigations, studies, or testing not specifically stated therein. ENGINEER shall not be liable for the existence of any condition, the discovery of which required the performance of services not authorized under the Agreement.

13. The passage of time may result in significant changes in technology, economic conditions, or site variations that would render the Report inaccurate. Accordingly, neither the CLIENT, nor any other party, shall rely on the information or conclusions contained in this Report after six months from its date of submission without the express written consent of ENGINEER. Reliance on the Report after such period of time shall be at the user's sole risk. Should ENGINEER be required to review the Report after six months from its date of submission, ENGINEER shall be entitled to additional compensation at then existing rates or such other terms as may be agreed upon between ENGINEER and the CLIENT.

14. ENGINEER has endeavored to perform its services based upon engineering practices accepted at the time they were performed. ENGINEER makes no other representations, express or implied, regarding the information, data, analysis, calculations, and conclusions contained herein.

15. The services provided by ENGINEER do not include legal advice. Legal counsel should be consulted regarding interpretation of applicable and relevant federal, state, and local statutes and regulations and other legal matters.

# BORING NUMBER RSB-1



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 6.5 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 10" ASPHALT | |
| | | | | | 1.0 | |
| | | | | | 21" Reddish-brown, fine SAND, SILT, and CLAY; little small, flat to subangular gravel, (TILL), loose, dry, no staining, no odors, PID = ND | |
| 2.5 | | 85 | | | | ND |
| | | | | | 10" Reddish-brown CLAY; little fine sand, (TILL), dense, pliable, very moist, no staining, no odors, PID = ND | |
| | | | | | 4.0 | |
| 5.0 | | | | | 48" Same as above, wet at 6.5-feet, mild gasoline odor at water table, PID = 171 ppm | |
| | | 100 | SAMPLE: RSB-1 (6.5-8') 11:20 SUBMITTED | | ▽ | 171 |
| 7.5 | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-2



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 6.5 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 8" ASPHALT | |
| | | | | | 0.8 | |
| | | | | | 28" Reddish-brown, fine SAND, SILT, and CLAY; little small, flat to subangular gravel, (TILL), loose, dry, no staining, no odors, PID = ND | |
| 2.5 | | 100 | | | | ND |
| | | | | | 12" Reddish-brown CLAY; little fine sand, (TILL), dense, pliable, very moist, no staining, no odors | |
| | | | | | 4.0 | |
| | | | | | 40" Same as above, wet at 6.5-feet, gasoline odor, PID = 250 ppm | |
| 5.0 | | 83 | SAMPLE: RSB-2 (6-8') 11:30 SUBMITTED | | ▽ | 250 |
| 7.5 | | | | | | |
| | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-3



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 5.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 8" ASPHALT | |
| | | | | | 0.8 | |
| | | | | | 12" Reddish-brown, fine SAND, SILT, and CLAY; little small, flat to subangular gravel, (TILL), loose, dry, no staining, no odors, PID = ND | |
| | | 73 | | | | ND |
| 2.5 | | | SAMPLE: RSB-3 (3-5') 13:10 NOT SUBMITTED | | 15" Reddish-brown CLAY; little fine sand, dense, pliable, moist, no staining, no odors, PID = ND | |
| | | | | | 4.0 | |
| | | | | | 48" Same as above, wet at 5-feet, PID = ND | |
| 5.0 | | | | | ▽ | |
| | | 100 | | | | ND |
| 7.5 | | | | | | |
| | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-4



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 4.5 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 12" ASPHALT | |
| | | | | | 1.0 | |
| | | | | | 24" Reddish-brown, fine SAND, SILT, and CLAY; little small, flat to subangular gravel, (TILL), loose, dry, no staining, no odors, PID = ND | |
| | | 75 | | | | ND |
| 2.5 | | | | | | |
| | | | | | 4.0 | |
| | | | | | 4" Same as above | |
| | | | | | ▽ 44" Reddish-brown CLAY; little fine sand, dense, pliable, wet at 4.5-feet, no staining, no odors, PID = 1.6 ppm | |
| 5.0 | | | SAMPLE: RSB-4 (5-7') 12:40 SUBMITTED | | | |
| | | 100 | | | | 1.6 |
| 7.5 | | | | | | |
| | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-5



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 6.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 10" ASPHALT | |
| | | | | | 0.8 | |
| | | | | | 20" Reddish-brown, fine SAND, SILT, and CLAY; little small, flat to subangular gravel (TILL), loose, dry, no staining, no odors, PID = ND | |
| 2.5 | | 83 | SAMPLE: RSB-5 (2-4') 11:45 SUBMITTED | | | ND |
| | | | | | 4.0 | |
| | | | | | 48" Same as above, wet at 6-feet, no staining, no odors, PID = ND | |
| 5.0 | | 100 | | | ▽ | ND |
| 7.5 | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-6



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 3.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 9" ASPHALT & SUB-BASE | |
| | | | | | 1.0 | |
| | | | | | 29" Reddish-brown, fine SAND, SILT, and CLAY, (TILL), moderately dense, wet at 3-feet, moderate gasoline odor (degraded), PID = 2.7 ppm | |
| 2.5 | | 79 | SAMPLE: RSB-6 (3-6') 09:40 SUBMITTED | | ▽ | 2.7 |
| | | | | | 4.0 | |
| | | | | | 43" Same as above, PID = 6.2 ppm | |
| 5.0 | | 90 | | | | 6.2 |
| 7.5 | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-7



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 4.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 12" SUB-BASE | |
| | | | | | 1.0 — 6" Yellowish-brown, medium grained, homogenous SAND, (FILL), very loose, dry, no staining, no odors, PID = ND | |
| 2.5 | | 38 | | | | ND |
| | | | | | 4.0 ▽ | |
| | | | | | 4.3 — 4" Fall-In | |
| | | | | | 44" Reddish-brown CLAY; little fine sand and silt, (TILL), very dense, wet at 4-feet, strong gasoline odor, PID = 468 ppm | |
| 5.0 | | 100 | SAMPLE: RSB-7 (4-6') 09:55 SUBMITTED | | | 468 |
| 7.5 | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-8



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 5.5 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 12" SUB-BASE | |
| | | | | | 1.0 | |
| | | | | | 19" Reddish-brown, fine SAND, SILT, and CLAY; little medium sized, flat to subangular gravel, loose, moist, no staining, no odors, PID = ND | |
| 2.5 | | 65 | | | | ND |
| | | | | | 4.0 | |
| | | | | | 20" Reddish-brown, small, subangular GRAVEL; some medium grained sand, very loose, dry, no staining, no odors, PID = ND | |
| 5.0 | | | SAMPLE: RSB-8 (5.5-7') 10:15 SUBMITTED | | ▽ 5.8 | |
| | | 100 | | | 28" Reddish-brown CLAY; little fine sand, (TILL), very dense, pliable, wet at 5.5-feet, strong gasoline odor, PID = 457 ppm | 457 |
| 7.5 | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

TETRA TECH

# BORING NUMBER RSB-9



**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 6.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 12" ASPHALT | |
| | | | SAMPLE: RSB-9 (1.5-4') 10:50 SUBMITTED | | 1.0 | |
| | | 100 | | | 26" Reddish-brown, fine SAND, SILT, and CLAY; little small, flat to subangular gravel, (TILL), loose, dry, no staining, no odors, PID = ND | ND |
| 2.5 | | | | | 10" Reddish-brown CLAY; little fine sand, dense, pliable, very moist, no staining, no odors, PID = ND | |
| | | | | | 4.0 | |
| | | 100 | | | 48" Same as above, wet at 6-feet, PID = ND ▽ | ND |
| 5.0 | | | | | | |
| 7.5 | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

TETRA TECH

# BORING NUMBER RSB-10



**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** _____ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 6.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | | |
| | | 44 | | | 24" Brown, medium grained SAND; some medium sized, subangular gravel, loose, dry, no staining, no odors, PID = ND | ND |
| 2.5 | | | | | | |
| | | | | | 4.0 | |
| | | | | | 20" Same as above, wet at 6-feet, PID = ND | |
| 5.0 | | 48 | SAMPLE: RSB-10 (6-8') 08:30 SUBMITTED | | ▽ | ND |
| | | | | | 7.0 | |
| 7.5 | | | | | 3" Red, fine SAND and CLAY, wet, pliable, no staining, no odors, (TILL), PID = ND | |
| | | | | | 8.0 | |
| | | | | | 7" Fall-In | |
| | | 81 | SAMPLE: RSB-10 (H20) 08:45 SUBMITTED | | 32" Same as above, saturated, PID = ND | ND |
| 10.0 | | | | | | |
| | | | | | 12.0 | |
| | | | | | Bottom of hole at 12.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-11



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 7.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | | |
| | | 65 | SAMPLE: RSB-11 (1-4') 09:10 SUBMITTED | | 31" Brown, medium grained SAND; some medium sized, subangular gravel, (FILL), loose, dry, no staining, no odors, PID = ND | ND |
| 2.5 | | | | | | |
| | | | | | 4.0 | |
| | | | | | 37" Same as above, wet at 7-feet, PID = ND | |
| 5.0 | | 77 | | | ▽ | ND |
| 7.5 | | | | | | |
| | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-12



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 4.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 0.3 4" SUB-BASE | |
| | | 50 | | | 20" Reddish-brown, fine SAND and CLAY; little medium sized, subangular gravel, (TILL), dense, pliable, wet at 4-feet, PID = ND | ND |
| 2.5 | | | | | | |
| | | | | | 4.0 ▽ 42" Same as above, PID = ND | |
| 5.0 | | 88 | SAMPLE: RSB-12 (5-8') 09:20 SUBMITTED + Duplicate | | | ND |
| 7.5 | | | | | 8.0 Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-13



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** _____ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 4.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES** _____
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | | |
| | | 46 | | | 12" Brown, medium-grained, homogenous SAND; some small, subangular gravel, loose, dry, no staining, no odors, PID = ND | ND |
| 2.5 | | | | | 2.5 | |
| | | | | | 10" Reddish-brown, fine SAND, SILT, and CLAY; some medium to small, subangular gravel, (TILL), loose, very moist, no staining, no odors, PID = ND | |
| | | | | | 4.0 ▽ | |
| 5.0 | | 79 | SAMPLE: RSB-13 (4-6') 13:25 SUBMITTED SAMPLE: RSB-13 (H20) 13:30 SUBMITTED + Duplicate | | 38" Reddish-brown CLAY; little fine sand, (TILL), dense, saturated at 4-feet, pliable, no staining, no odors, PID = ND | ND |
| 7.5 | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-14



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 8.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 6" Brown, medium-grained, homogenous SAND, loose, dry, no staining, no odors, PID = ND | |
| | | | | | 10" Reddish-brown, fine SAND, SILT, and CLAY; some large to small, subangular gravel, (disturbed till), no staining, no odors, PID = ND | |
| 2.5 | | 50 | | | | ND |
| | | | | | 3.0 — 8" ASPHALT | |
| | | | | | 4.0 — 11" Black, small, subangular GRAVEL, loose, saturated, wet at 4-feet | |
| 5.0 | | 58 | SAMPLE: RSB-14 (6-8') 13:40 SUBMITTED | | | ND |
| 7.5 | | | | | 7.5 — 17" Reddish-brown CLAY; little fine sand, dense, pliable, saturated, no staining, no odors, | |
| | | | | | 8.0 ▽ PID = ND | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

# BORING NUMBER RSB-15



TETRA TECH

**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 7.5 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES** ___
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | SAMPLE: RSB-15 (1-3') 13:50 NOT SUBMITTED | | 38" Reddish-brown, fine SAND and SILT; some clay, loose, slightly pliable, slightly moist, no staining, no odors, PID = ND | ND |
| 2.5 | | 79 | | | | |
| | | | | | 4.0 | |
| | | | | | 48" Same as above, PID = ND, wet at 7.5-feet | ND |
| 5.0 | | 100 | | | | |
| 7.5 | | | | | ▽ | |
| | | | | | 8.0 | |
| | | | | | Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

TETRA TECH

# BORING NUMBER RSB-16

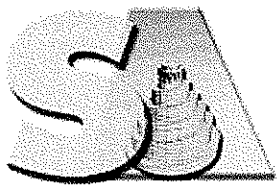


**CLIENT** Connecticut Department of Transportation
**PROJECT NAME** 142 Willard Avenue
**PROJECT NUMBER** 127-17797-09011
**PROJECT LOCATION** Newington, Connecticut
**DATE STARTED** 8/27/09 **COMPLETED** 8/27/09
**GROUND ELEVATION** ___ **HOLE SIZE** 2"
**DRILLING CONTRACTOR** Logical Environmental Solutions
**GROUND WATER LEVELS:**
**DRILLING METHOD** Direct Push (Geoprobe)
▽ **AT TIME OF DRILLING** 6.0 ft
**LOGGED BY** Joe Perko **CHECKED BY** David T. Williams
**AT END OF DRILLING** ---
**NOTES**
**AFTER DRILLING** ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | RECOVERY % | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | 5" ASPHALT | |
| | | | | | 0.5 34" Reddish-brown, fine SAND and SILT; some large to small, subangular gravel; little clay, (TILL), loose, gasoline odor, PID = 55.5 ppm | |
| 2.5 | | 81 | | | | 55.5 |
| | | | | | 4.0 20" Same as above, wet at 6-feet, strong gasoline odor, PID = 60.1 ppm | |
| 5.0 | | 46 | SAMPLE: RSB-16 (6-7.5') 14:30 SUBMITTED | | ▽ | 60.1 |
| 7.5 | | | | | 2" Reddish-brown CLAY; little fine sand, dense, wet, PID = 6.6 ppm | |
| | | | | | 8.0 Bottom of hole at 8.0 feet. | |

GENERAL BH / TP / WELL 127-17797-09011.GPJ GINT US.GDT 8/31/09

Report Date:
15-Sep-09 14:39



☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
*Featuring*
HANIBAL TECHNOLOGY

# *Laboratory Report*

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Hartford, CT 06103-2428
Attn: Joseph Perko

Project: 142 Willard Ave - Newington, CT
Project #: 127-17797-09011

| Laboratory ID | Client Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| SB00047-01 | RSB-10 (6-8') | Soil | 27-Aug-09 08:30 | 28-Aug-09 18:34 |
| SB00047-02 | RSB-10 (H2O) | Ground Water | 27-Aug-09 08:45 | 28-Aug-09 18:34 |
| SB00047-03 | RSB-11 (1-4') | Soil | 27-Aug-09 09:10 | 28-Aug-09 18:34 |
| SB00047-04 | RSB-12 (5-8') | Soil | 27-Aug-09 09:20 | 28-Aug-09 18:34 |
| SB00047-05 | RSB-6 (3-6') | Soil | 27-Aug-09 09:40 | 28-Aug-09 18:34 |
| SB00047-06 | RSB-7 (4-6') | Soil | 27-Aug-09 09:55 | 28-Aug-09 18:34 |
| SB00047-07 | RSB-8 (5.5-7') | Soil | 27-Aug-09 10:15 | 28-Aug-09 18:34 |
| SB00047-08 | RSB-9 (1.5-4') | Soil | 27-Aug-09 10:50 | 28-Aug-09 18:34 |
| SB00047-09 | RSB-1 (6.5-8') | Soil | 27-Aug-09 11:20 | 28-Aug-09 18:34 |
| SB00047-10 | RSB-2 (6-8') | Soil | 27-Aug-09 11:30 | 28-Aug-09 18:34 |
| SB00047-11 | RSB-5 (2-4') | Soil | 27-Aug-09 11:45 | 28-Aug-09 18:34 |
| SB00047-12 | RSB-4 (5-7') | Soil | 27-Aug-09 12:40 | 28-Aug-09 18:34 |
| SB00047-14 | RSB-13 (4-6') | Soil | 27-Aug-09 13:25 | 28-Aug-09 18:34 |
| SB00047-15 | RSB-13 (H2O) | Ground Water | 27-Aug-09 13:30 | 28-Aug-09 18:34 |
| SB00047-16 | RSB-14 (6-8') | Soil | 27-Aug-09 13:40 | 28-Aug-09 18:34 |
| SB00047-17 | RSB-14 (H2O) | Ground Water | 27-Aug-09 13:45 | 28-Aug-09 18:34 |
| SB00047-19 | RSB-16 (6-7.5') | Soil | 27-Aug-09 14:30 | 28-Aug-09 18:34 |
| SB00047-20 | Duplicate | Soil | 27-Aug-09 00:00 | 28-Aug-09 18:34 |
| SB00047-21 | Duplicate | Ground Water | 27-Aug-09 00:00 | 28-Aug-09 18:34 |
| SB00047-22 | Trip Blank | Aqueous | 27-Aug-09 10:20 | 28-Aug-09 18:34 |

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
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

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 note that this report contains 164 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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

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

**CASE NARRATIVE:**

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 4.0 degrees Celsius. The samples were transported on ice to the laboratory facility and the temperature was recorded at 4 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 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.

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

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

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

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

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

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method 8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

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

**SW846 1312/6010B**

**Duplicates:**

9090010-DUP1 *Source: SB00047-19*

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

Cadmium

**SW846 6010B**

**Duplicates:**

9090244-DUP1 *Source: SB00047-04*

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

Lead

**SW846 8260B**

**SW846 8260B**

**Blanks:**

9090222-BLK1

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

9090329-BLK1

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

**SW846 8260B**

**Laboratory Control Samples:**

9082173 LCS/LCSD

1,2-Dibromo-3-chloropropane recoveries (30%/62%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-14 (6-8')

1,3-Dichlorobenzene recoveries (150%/138%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-13 (4-6')
RSB-14 (6-8')

Bromobenzene recoveries (154%/144%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-13 (4-6')
RSB-14 (6-8')

Bromochloromethane recoveries (136%/143%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-13 (4-6')
RSB-14 (6-8')

Tetrachloroethene recoveries (148%/139%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-13 (4-6')
RSB-14 (6-8')

9082173-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene
Bromochloromethane
Tetrachloroethene

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.

o-Xylene
tert-Butylbenzene

**SW846 8260B**

**Laboratory Control Samples:**

9082173-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene
Bromochloromethane
Tetrachloroethene

RPD out of acceptance range.

1,2-Dibromo-3-chloropropane

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.

Hexachlorobutadiene
n-Butylbenzene
trans-1,4-Dichloro-2-butene

9090030 LCS/LCSD

1,2-Dibromo-3-chloropropane recoveries (62%/61%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-1 (6.5-8')
RSB-12 (5-8')
RSB-4 (5-7')
RSB-6 (3-6')
RSB-7 (4-6')
RSB-8 (5.5-7')

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

RSB-1 (6.5-8')
RSB-12 (5-8')
RSB-4 (5-7')
RSB-6 (3-6')
RSB-7 (4-6')
RSB-8 (5.5-7')

Bromobenzene recoveries (140%/145%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-1 (6.5-8')
RSB-12 (5-8')
RSB-4 (5-7')
RSB-6 (3-6')
RSB-7 (4-6')
RSB-8 (5.5-7')

**SW846 8260B**

**Laboratory Control Samples:**

9090030-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene

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.

Bromochloromethane

9090030-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene

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.

Tetrachloroethene
trans-1,4-Dichloro-2-butene

9090137 LCS/LCSD

1,2-Dibromo-3-chloropropane recoveries (56%/54%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-1 (6.5-8')
RSB-2 (6-8')

1,3-Dichlorobenzene recoveries (149%/143%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-1 (6.5-8')
RSB-2 (6-8')

Bromobenzene recoveries (153%/147%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-1 (6.5-8')
RSB-2 (6-8')

Bromochloromethane recoveries (134%/134%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-1 (6.5-8')
RSB-2 (6-8')

Carbon tetrachloride recoveries (140%/135%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-1 (6.5-8')
RSB-2 (6-8')

Tetrachloroethene recoveries (138%/135%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-1 (6.5-8')
RSB-2 (6-8')

**SW846 8260B**

**Laboratory Control Samples:**

9090137-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene
Bromochloromethane
Carbon tetrachloride
Tetrachloroethene

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.

o-Xylene
trans-1,4-Dichloro-2-butene

9090137-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene
Bromochloromethane
Carbon tetrachloride
Tetrachloroethene

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.

Hexachlorobutadiene
n-Butylbenzene

9090222 LCS/LCSD

1,2,3-Trichloropropane recoveries (137%/131%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

RSB-16 (6-7.5')
RSB-5 (2-4')
RSB-9 (1.5-4')

9090222-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2,3-Trichloropropane

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

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.

Methyl tert-butyl ether
Tetrahydrofuran

**SW846 8260B**

**Laboratory Control Samples:**

9090222-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,2,3-Trichloropropane

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

9090223-BSD1

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.

2,2-Dichloropropane

9090327-BS1

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.

Carbon disulfide
Chloromethane
Isopropylbenzene
n-Propylbenzene
Vinyl chloride

**SW846 8260B**

**Laboratory Control Samples:**

9090327-BSD1

RPD out of acceptance range.

Carbon disulfide
Chloromethane
Isopropylbenzene
n-Propylbenzene
Vinyl chloride

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

1,1,1-Trichloroethane
1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
1,4-Dioxane
2,2-Dichloropropane
2-Chlorotoluene
4-Chlorotoluene
4-Isopropyltoluene
Carbon tetrachloride
m,p-Xylene
n-Butylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
trans-1,2-Dichloroethene
Trichloroethene

9090329 LCS/LCSD

Methyl tert-butyl ether recoveries (134%/137%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Duplicate

9090329-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Methyl tert-butyl ether

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

**SW846 8260B**

**Laboratory Control Samples:**

9090329-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Methyl tert-butyl ether

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

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.

1,1-Dichloroethane

**SW846 8260B**

**Samples:**

S908258-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene
Bromochloromethane
Hexachlorobutadiene
n-Butylbenzene
Tetrachloroethene
trans-1,4-Dichloro-2-butene

This affected the following samples:

RSB-13 (4-6')
RSB-14 (6-8')

S908265-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene
Bromochloromethane

This affected the following samples:

RSB-1 (6.5-8')
RSB-12 (5-8')
RSB-4 (5-7')
RSB-6 (3-6')
RSB-7 (4-6')
RSB-8 (5.5-7')

S908315-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

1,2-Dibromo-3-chloropropane
1,3-Dichlorobenzene
Bromobenzene
Bromochloromethane
Carbon tetrachloride
Hexachlorobutadiene
n-Butylbenzene
Tetrachloroethene

This affected the following samples:

RSB-1 (6.5-8')
RSB-2 (6-8')

**SW846 8260B**

**Samples:**

S908355-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

1,2,3-Trichloropropane
Methyl tert-butyl ether
Tetrahydrofuran

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

This affected the following samples:

RSB-16 (6-7.5')
RSB-5 (2-4')
RSB-9 (1.5-4')

S908435-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

Methyl tert-butyl ether

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

This affected the following samples:

Duplicate

S908454-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

Ethanol

This affected the following samples:

RSB-10 (6-8')

S908476-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

Acetone

This affected the following samples:

RSB-11 (1-4')
RSB-5 (2-4')
RSB-9 (1.5-4')

**SW846 8260B**

**Samples:**

S908521-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

Acetone

This affected the following samples:

RSB-13 (4-6')
RSB-14 (6-8')

SB00047-04 *RSB-12 (5-8')*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB00047-05 *RSB-6 (3-6')*

This sample was not able to be analyzed for low level reporting limits due to high concentrations of other target analytes in the sample.

SB00047-06 *RSB-7 (4-6')*

This sample was not able to be analyzed for low level reporting limits due to high concentrations of other target analytes in the sample.

SB00047-07 *RSB-8 (5.5-7')*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB00047-08 *RSB-9 (1.5-4')*

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

SB00047-10 *RSB-2 (6-8')*

This sample was not able to be analyzed for low level reporting limits due to high concentrations of other target analytes in the sample.

SB00047-12 *RSB-4 (5-7')*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB00047-19 *RSB-16 (6-7.5')*

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

This sample was not able to be analyzed for low level reporting limits due to high concentrations of other target analytes in the sample.

**SW846 8260B**

**Samples:**

SB00047-20 *Duplicate*

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

Data confirmed with duplicate analysis.

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

**SW846 8270C**

**SW846 8270C**

**Laboratory Control Samples:**

**SW846 8270C**

**Laboratory Control Samples:**

9090106 LCS/LCSD

1,4-Dichlorobenzene-d4 recoveries (%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
RSB-10 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)

2,4-Dinitrophenol recoveries (33%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
RSB-10 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)

4,6-Dinitro-2-methylphenol recoveries (29%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
RSB-10 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)

Acenaphthene-d10 recoveries (%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
Duplicate
RSB-10 (H2O)
RSB-10 (H2O)
RSB-13 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)
RSB-14 (H2O)

Chrysene-d12 recoveries (%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
Duplicate
RSB-10 (H2O)
RSB-10 (H2O)
RSB-13 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)
RSB-14 (H2O)

Hexachlorocyclopentadiene recoveries (21%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
RSB-10 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)

**SW846 8270C**

**Laboratory Control Samples:**

9090106 LCS/LCSD

Naphthalene-d8 recoveries (%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
Duplicate
RSB-10 (H2O)
RSB-10 (H2O)
RSB-13 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)
RSB-14 (H2O)

Perylene-d12 recoveries (%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
Duplicate
RSB-10 (H2O)
RSB-10 (H2O)
RSB-13 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)
RSB-14 (H2O)

Phenanthrene-d10 recoveries (%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
Duplicate
RSB-10 (H2O)
RSB-10 (H2O)
RSB-13 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)
RSB-14 (H2O)

Phenol recoveries (34%/%) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Duplicate
RSB-10 (H2O)
RSB-13 (H2O)
RSB-14 (H2O)

9090106-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
Hexachlorocyclopentadiene
Phenol

**SW846 8270C**

**Laboratory Control Samples:**

9090296 LCS

1,4-Dichlorobenzene-d4 recovery (%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

2,4-Dinitrophenol recovery (26%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

4,6-Dinitro-2-methylphenol recovery (29%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

Acenaphthene-d10 recovery (%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

Chrysene-d12 recovery (%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

Naphthalene-d8 recovery (%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

**SW846 8270C**

**Laboratory Control Samples:**

9090296 LCS

N-Nitrosodimethylamine recovery (30%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

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

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

Perylene-d12 recovery (%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

Phenanthrene-d10 recovery (%) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

RSB-13 (4-6')
RSB-16 (6-7.5')
RSB-2 (6-8')
RSB-4 (5-7')
RSB-8 (5.5-7')

9090296-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
N-Nitrosodimethylamine
Pentachlorophenol

**Samples:**

SB00047-02 *RSB-10 (H2O)*

Surrogate recovery outside of control limits. Sample data may be biased low. Insufficient sample available to reextract and reanalyze.

2-Fluorophenol
Phenol-d5

SB00047-15 *RSB-13 (H2O)*

Surrogate recovery outside of control limits. Sample data may be biased low. Insufficient sample available to reextract and reanalyze.

2-Fluorophenol
Phenol-d5

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (6-8')**<br>SB00047-01 | 127-17797-09011 | Soil | 27-Aug-09 08:30 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | | | | Initial weight: 5.93 g | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 5.4 | 1 | SW846 8260B | 04-Sep-09 | 04-Sep-09 | 9090327 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 53.8 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 10.8 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 53.8 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 26.9 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 10.8 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 10.8 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 10.8 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 10.8 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 53.8 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 53.8 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 53.8 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (6-8')** | 127-17797-09011 | Soil | 27-Aug-09 08:30 | 28-Aug-09 |
| SB00047-01 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | Initial weight: 5.93 g | | | | | |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 5.4 | 1 | SW846 8260B | 04-Sep-09 | 04-Sep-09 | 9090327 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 10.8 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 53.8 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 5.4 | 1 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 53.8 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 108 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 26.9 | 1 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 2150 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *100* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *101* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *114* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *102* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 29.1 | 1 | +CT ETPH | 04-Sep-09 | 04-Sep-09 | 9090301 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 29.1 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *91* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

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

* Reportable Detection Limit  BRL = Below Reporting Limit

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (6-8')**<br>SB00047-01 | 127-17797-09011 | Soil | 27-Aug-09 08:30 | 28-Aug-09 |

| *CAS No.* | *Analyte(s)* | *Result* | *Flag* | *Units* | **RDL* | *Dilution* | *Method Ref.* | *Prepared* | *Analyzed* | *Batch* | *Cert.* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.65 | 1 | SW846 6010B | 03-Sep-09 | 04-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 4.07 | | mg/kg dry | 1.65 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 84.9 | | mg/kg dry | 1.10 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.550 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 39.9 | | mg/kg dry | 1.10 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0335 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 2.82 | | mg/kg dry | 1.65 | 1 | SW846 6010B | " | 04-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.65 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 88.8 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 08:45 | 28-Aug-09 |
| SB00047-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 67-64-1 | Acetone | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 74-97-5 | Bromochloromethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | 1.0 | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 1.2 | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 08:45 | 28-Aug-09 |
| SB00047-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 100-42-5 | Styrene | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/l | 5.0 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/l | 20.0 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 64-17-5 | Ethanol | BRL | | µg/l | 400 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *96* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *100* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *108* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *108* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 5.38 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 08:45 | 28-Aug-09 |
| SB00047-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/l | 5.38 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 78-59-1 | Isophorone | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/l | 10.8 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/l | 21.5 | 1 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/l | 21.5 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/l | 21.5 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 08:45 | 28-Aug-09 |
| SB00047-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 5.38 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-95-2 | Phenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/l | 5.38 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *46* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *14* | Z-2 | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *40* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *12* | Z-2 | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *65* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *66* | | *15-110 %* | | | " | " | " | " | |
| SVOCs by SW846 8270C SIM | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 0.050 | 1 | " | " | 03-Sep-09 | " | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 120-12-7 | Anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | 0.194 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 91-20-3 | Naphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | 0.204 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *45* | | *30-130 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *68* | | *30-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/l | 0.233 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/l | 0.233 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/l | 0.233 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/l | 0.233 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/l | 0.233 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/l | 0.233 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/l | 0.233 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-10 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 08:45 | 28-Aug-09 |
| SB00047-02 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/l | 0.233 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/l | 0.233 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *49* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *49* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/l | 0.1 | 1 | +CT ETPH | 01-Sep-09 | 03-Sep-09 | 9090008 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *76* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/l | 0.0050 | 1 | SW846 6010B | 08-Sep-09 | 09-Sep-09 | 9090312 | X |
| 7440-38-2 | Arsenic | 0.0088 | | mg/l | 0.0040 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 0.102 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/l | 0.0025 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 0.0117 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7439-92-1 | Lead | BRL | | mg/l | 0.0075 | 1 | " | " | " | " | X |
| 7782-49-2 | Selenium | BRL | | mg/l | 0.0150 | 1 | " | " | " | " | X |
| **Total Metals by EPA 200 Series Methods** | | | | | | | | | | | |
| 7439-97-6 | Mercury | BRL | | mg/l | 0.00020 | 1 | EPA 245.1/7470A | 08-Sep-09 | 09-Sep-09 | 9090313 | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-11 (1-4')** | 127-17797-09011 | Soil | 27-Aug-09 09:10 | 28-Aug-09 |
| SB00047-03 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | | | | Initial weight: 5.44 g | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 5.1 | 1 | SW846 8260B | 04-Sep-09 | 08-Sep-09 | 9090426 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 51.5 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 10.3 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 51.5 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 25.7 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 10.3 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 10.3 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 10.3 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 10.3 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 51.5 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 51.5 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 51.5 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-11 (1-4')** | 127-17797-09011 | Soil | 27-Aug-09 09:10 | 28-Aug-09 |
| SB00047-03 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | Initial weight: 5.44 g | | | | | |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 5.1 | 1 | SW846 8260B | 04-Sep-09 | 08-Sep-09 | 9090426 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 10.3 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 51.5 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 5.1 | 1 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 51.5 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 103 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 25.7 | 1 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 2060 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *92* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *102* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *115* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *106* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 27.4 | 1 | +CT ETPH | 04-Sep-09 | 04-Sep-09 | 9090301 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 27.4 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *78* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

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

* Reportable Detection Limit  BRL = Below Reporting Limit

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-11 (1-4')**<br>SB00047-03 | 127-17797-09011 | Soil | 27-Aug-09 09:10 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.46 | 1 | SW846 6010B | 03-Sep-09 | 04-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 3.63 | | mg/kg dry | 1.46 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 78.7 | | mg/kg dry | 0.973 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.487 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 28.8 | | mg/kg dry | 0.973 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0287 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 2.50 | | mg/kg dry | 1.46 | 1 | SW846 6010B | " | 04-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.46 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 94.6 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-12 (5-8')** | 127-17797-09011 | Soil | 27-Aug-09 09:20 | 28-Aug-09 |
| SB00047-04 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | R05 | | | Initial weight: 18.45 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 58.2 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 582 | 50 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 116 | 50 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 582 | 50 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 291 | 50 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 116 | 50 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 116 | 50 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 116 | 50 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 116 | 50 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 582 | 50 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 582 | 50 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 582 | 50 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-12 (5-8')**<br>SB00047-04 | 127-17797-09011 | Soil | 27-Aug-09 09:20 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | R05 | | | Initial weight: 18.45 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 58.2 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 116 | 50 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 582 | 50 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 58.2 | 50 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 582 | 50 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 1160 | 50 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 291 | 50 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 23300 | 50 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *110* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *100* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *87* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *88* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 31.0 | 1 | +CT ETPH | 04-Sep-09 | 04-Sep-09 | 9090301 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 31.0 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *82* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-12 (5-8')**<br>SB00047-04 | 127-17797-09011 | Soil | 27-Aug-09 09:20 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.62 | 1 | SW846 6010B | 03-Sep-09 | 04-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 4.21 | | mg/kg dry | 1.62 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 165 | | mg/kg dry | 1.08 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.540 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 24.8 | | mg/kg dry | 1.08 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0337 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 6.06 | | mg/kg dry | 1.62 | 1 | SW846 6010B | " | 04-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.62 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 83.7 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-6 (3-6')**<br>SB00047-05 | 127-17797-09011 | Soil | 27-Aug-09 09:40 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | GS | | | Initial weight: 16.27 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 66.2 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 662 | 50 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 132 | 50 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 662 | 50 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | 74.8 | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 331 | 50 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 132 | 50 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 132 | 50 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 132 | 50 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 132 | 50 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | 192 | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 662 | 50 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | 106 | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 662 | 50 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 662 | 50 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-6 (3-6')** | 127-17797-09011 | Soil | 27-Aug-09 09:40 | 28-Aug-09 |
| SB00047-05 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | GS | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 16.27 g | | | | | |
| 103-65-1 | n-Propylbenzene | 330 | | µg/kg dry | 66.2 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | 313 | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | 154 | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | 280 | | µg/kg dry | 132 | 50 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 662 | 50 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 66.2 | 50 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 662 | 50 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 1320 | 50 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 331 | 50 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 26500 | 50 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *109* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *98* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *90* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *87* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 39.2 | 1 | +CT ETPH | 04-Sep-09 | 04-Sep-09 | 9090301 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 39.2 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *84* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

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

* Reportable Detection Limit  BRL = Below Reporting Limit

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-6 (3-6')**<br>SB00047-05 | 127-17797-09011 | Soil | 27-Aug-09 09:40 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.55 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 2.88 | | mg/kg dry | 1.55 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 136 | | mg/kg dry | 1.03 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.517 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 17.3 | | mg/kg dry | 1.03 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0356 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 7.05 | | mg/kg dry | 1.55 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.55 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 82.7 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-7 (4-6')** | 127-17797-09011 | Soil | 27-Aug-09 09:55 | 28-Aug-09 |
| SB00047-06 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | GS | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 17.17 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 1200 | 1000 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 12000 | 1000 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 2400 | 1000 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 12000 | 1000 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | 2,030 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 6010 | 1000 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 2400 | 1000 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 2400 | 1000 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 2400 | 1000 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 2400 | 1000 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | 13,200 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 12000 | 1000 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | 1,710 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 12000 | 1000 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 12000 | 1000 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 4,010 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-7 (4-6')** | 127-17797-09011 | Soil | 27-Aug-09 09:55 | 28-Aug-09 |
| SB00047-06 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | GS | | | Initial weight: 17.17 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 103-65-1 | n-Propylbenzene | 5,950 | | µg/kg dry | 1200 | 1000 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 108-88-3 | Toluene | 15,800 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | 60,700 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | 22,000 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | 67,100 | | µg/kg dry | 2400 | 1000 | " | " | " | " | X |
| 95-47-6 | o-Xylene | 25,300 | | µg/kg dry | 1200 | 1000 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 12000 | 1000 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 1200 | 1000 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 12000 | 1000 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 24000 | 1000 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 6010 | 1000 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 481000 | 1000 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *106* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *97* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *89* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *91* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 34.1 | 1 | +CT ETPH | 04-Sep-09 | 04-Sep-09 | 9090301 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| | Unidentified | 111 | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| | Other Oil | Calculated as | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | 111 | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | 111 | | mg/kg dry | 34.1 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *85* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-7 (4-6')**<br>SB00047-06 | 127-17797-09011 | Soil | 27-Aug-09 09:55 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | 5.30 | | mg/kg dry | 1.75 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 3.99 | | mg/kg dry | 1.75 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 175 | | mg/kg dry | 1.16 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.582 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 23.2 | | mg/kg dry | 1.16 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | 0.242 | | mg/kg dry | 0.0336 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 64.8 | | mg/kg dry | 1.75 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.75 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 85.1 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-8 (5.5-7')**<br>SB00047-07 | 127-17797-09011 | Soil | 27-Aug-09 10:15 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | R05 | | | Initial weight: 17.68 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 2640 | 2000 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 26400 | 2000 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 5280 | 2000 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 26400 | 2000 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | 6,620 | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 13200 | 2000 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 5280 | 2000 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 5280 | 2000 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 5280 | 2000 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 5280 | 2000 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | 5,860 | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 26400 | 2000 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 26400 | 2000 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 26400 | 2000 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 4,620 | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-8 (5.5-7')** | 127-17797-09011 | Soil | 27-Aug-09 10:15 | 28-Aug-09 |
| SB00047-07 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | R05 | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 17.68 g | | | | | |
| 103-65-1 | n-Propylbenzene | 10,600 | | µg/kg dry | 2640 | 2000 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | 101,000 | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | 38,700 | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | 34,800 | | µg/kg dry | 5280 | 2000 | " | " | " | " | X |
| 95-47-6 | o-Xylene | 3,690 | | µg/kg dry | 2640 | 2000 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 26400 | 2000 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 2640 | 2000 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 26400 | 2000 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 52800 | 2000 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 13200 | 2000 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 1060000 | 2000 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *106* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *98* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *91* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *95* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/kg dry | 304 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-8 (5.5-7')**<br>SB00047-07 | 127-17797-09011 | Soil | 27-Aug-09 10:15 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/kg dry | 609 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3´-Dichlorobenzidine | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | 2,380 | | µg/kg dry | 304 | 1 | " | " | " | " | |
| 78-59-1 | Isophorone | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | 4,800 | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 2,210 | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/kg dry | 2430 | 1 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/kg dry | 2430 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-8 (5.5-7')** | 127-17797-09011 | Soil | 27-Aug-09 10:15 | 28-Aug-09 |
| SB00047-07 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/kg dry | 609 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 108-95-2 | Phenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/kg dry | 304 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/kg dry | 609 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *61* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *47* | | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *59* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *48* | | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *48* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *60* | | *15-110 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/kg dry | 24.7 | 1 | SW846 8082 | 02-Sep-09 | 04-Sep-09 | 9090131 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/kg dry | 24.7 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *71* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *92* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | Calculated as | | mg/kg dry | 24.5 | 1 | +CT ETPH | 04-Sep-09 | 05-Sep-09 | 9090295 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| | Unidentified | 277 | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| | Other Oil | Calculated as | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | 277 | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | 277 | | mg/kg dry | 24.5 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *85* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-8 (5.5-7')**<br>SB00047-07 | 127-17797-09011 | Soil | 27-Aug-09 10:15 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.62 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 3.79 | | mg/kg dry | 1.62 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 219 | | mg/kg dry | 1.08 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.540 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 34.8 | | mg/kg dry | 1.08 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0352 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 14.7 | | mg/kg dry | 1.62 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.62 | 1 | " | " | " | " | X |
| **SPLP Metals by EPA 1312 & 6000/7000 Series Methods** | | | | | | | | | | | |
| | SPLP Extraction | Completed | | N/A | | 1 | SW846 1312 | 31-Aug-09 | 31-Aug-09 | 9082164 | |
| 7440-22-4 | Silver | BRL | | mg/l | 0.0100 | 1 | SW846 1312/6010B | 01-Sep-09 | 01-Sep-09 | 9090010 | |
| 7440-38-2 | Arsenic | BRL | | mg/l | 0.0080 | 1 | " | " | " | " | |
| 7440-39-3 | Barium | 0.153 | | mg/l | 0.0100 | 1 | " | " | " | " | |
| 7440-43-9 | Cadmium | BRL | | mg/l | 0.0050 | 1 | " | " | " | " | |
| 7440-47-3 | Chromium | 0.0167 | | mg/l | 0.0100 | 1 | " | " | " | " | |
| 7439-97-6 | Mercury | BRL | | mg/l | 0.00020 | 1 | SW846 1312/7470A | " | 02-Sep-09 | 9090011 | |
| 7439-92-1 | Lead | BRL | | mg/l | 0.0150 | 1 | SW846 1312/6010B | " | 01-Sep-09 | 9090010 | |
| 7782-49-2 | Selenium | BRL | | mg/l | 0.0300 | 1 | " | " | " | " | |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 79.7 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-9 (1.5-4')** | 127-17797-09011 | Soil | 27-Aug-09 10:50 | 28-Aug-09 |
| SB00047-08 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 16.04 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 67.8 | 50 | SW846 8260B | 03-Sep-09 | 03-Sep-09 | 9090222 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 678 | 50 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 136 | 50 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 678 | 50 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 339 | 50 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 136 | 50 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 136 | 50 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 136 | 50 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 136 | 50 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 678 | 50 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 678 | 50 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 678 | 50 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 111 | CAL1 | µg/kg dry | 67.8 | 50 | " | " | " | " | X |

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

* Reportable Detection Limit  BRL = Below Reporting Limit

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-9 (1.5-4')** | 127-17797-09011 | Soil | 27-Aug-09 10:50 | 28-Aug-09 |
| SB00047-08 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | Initial weight: 16.04 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 67.8 | 50 | SW846 8260B | 03-Sep-09 | 03-Sep-09 | 9090222 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 136 | 50 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 678 | 50 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 67.8 | 50 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 678 | 50 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 1360 | 50 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | CAL1 | µg/kg dry | 339 | 50 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 27100 | 50 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *108* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *100* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *101* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *87* | | *70-130 %* | | | " | " | " | " | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 6.6 | 1 | SW846 8260B | 04-Sep-09 | 08-Sep-09 | 9090426 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 65.6 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 13.1 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 65.6 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 32.8 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-9 (1.5-4')** | 127-17797-09011 | Soil | 27-Aug-09 10:50 | 28-Aug-09 |
| SB00047-08 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | Initial weight: 5.56 g | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 6.6 | 1 | SW846 8260B | 04-Sep-09 | 08-Sep-09 | 9090426 | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 13.1 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 13.1 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 13.1 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 13.1 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 65.6 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 65.6 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 65.6 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-9 (1.5-4')** | 127-17797-09011 | Soil | 27-Aug-09 10:50 | 28-Aug-09 |
| SB00047-08 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | Initial weight: 5.56 g | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 6.6 | 1 | SW846 8260B | 04-Sep-09 | 08-Sep-09 | 9090426 | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 13.1 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 65.6 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 6.6 | 1 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 65.6 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 131 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 32.8 | 1 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 2630 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *93* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *102* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *113* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *103* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 31.4 | 1 | +CT ETPH | 04-Sep-09 | 04-Sep-09 | 9090301 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 31.4 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *76* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.55 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 4.13 | | mg/kg dry | 1.55 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 151 | | mg/kg dry | 1.03 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.517 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 24.8 | | mg/kg dry | 1.03 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0355 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 9.49 | | mg/kg dry | 1.55 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.55 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 82.1 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-1 (6.5-8')**<br>SB00047-09 | 127-17797-09011 | Soil | 27-Aug-09 11:20 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 17.05 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 73.9 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 739 | 50 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 71-43-2 | Benzene | 843 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 148 | 50 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 739 | 50 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | 757 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | 369 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 369 | 50 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 148 | 50 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 148 | 50 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 148 | 50 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 148 | 50 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | 4,950 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 739 | 50 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | 723 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | 185 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MiBK) | BRL | | µg/kg dry | 739 | 50 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 739 | 50 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 1,430 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-1 (6.5-8')**<br>SB00047-09 | 127-17797-09011 | Soil | 27-Aug-09 11:20 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | Initial weight: 17.05 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 103-65-1 | n-Propylbenzene | 2,690 | | µg/kg dry | 73.9 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 108-88-3 | Toluene | 80.5 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | 15,000 | E | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2,770 | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | 5,760 | | µg/kg dry | 148 | 50 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 739 | 50 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 73.9 | 50 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 739 | 50 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 1480 | 50 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 369 | 50 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 29600 | 50 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *118* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *99* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *84* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *88* | | *70-130 %* | | | " | " | " | " | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 296 | 200 | SW846 8260B | 02-Sep-09 | 02-Sep-09 | 9090137 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 2960 | 200 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 71-43-2 | Benzene | 907 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 591 | 200 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 2960 | 200 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | 789 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | 402 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 1480 | 200 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-1 (6.5-8')** | 127-17797-09011 | Soil | 27-Aug-09 11:20 | 28-Aug-09 |
| SB00047-09 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | Initial weight: 17.05 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 296 | 200 | SW846 8260B | 02-Sep-09 | 02-Sep-09 | 9090137 | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 591 | 200 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 591 | 200 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 591 | 200 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 591 | 200 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | 5,080 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 2960 | 200 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | 757 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 2960 | 200 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 2960 | 200 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 2,340 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | 2,720 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-1 (6.5-8')**<br>SB00047-09 | 127-17797-09011 | Soil | 27-Aug-09 11:20 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | Initial weight: 17.05 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 296 | 200 | SW846 8260B | 02-Sep-09 | 02-Sep-09 | 9090137 | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | 14,400 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2,750 | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | 5,840 | | µg/kg dry | 591 | 200 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 2960 | 200 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 296 | 200 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 2960 | 200 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 5910 | 200 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 1480 | 200 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 118000 | 200 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *110* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *99* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *92* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *92* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 46.9 | 1 | +CT ETPH | 04-Sep-09 | 04-Sep-09 | 9090301 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 46.9 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *95* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.69 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 5.42 | | mg/kg dry | 1.69 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 218 | | mg/kg dry | 1.12 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.562 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 31.9 | | mg/kg dry | 1.12 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0377 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 10.6 | | mg/kg dry | 1.69 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.69 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 75.9 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-2 (6-8')** | 127-17797-09011 | Soil | 27-Aug-09 11:30 | 28-Aug-09 |
| SB00047-10 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | GS | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 15.38 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 606 | 500 | SW846 8260B | 02-Sep-09 | 02-Sep-09 | 9090137 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 6060 | 500 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 1210 | 500 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 6060 | 500 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | 1,770 | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | 745 | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 3030 | 500 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 1210 | 500 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 1210 | 500 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 1210 | 500 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 1210 | 500 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | 8,350 | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 6060 | 500 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | 1,600 | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 6060 | 500 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 6060 | 500 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 3,390 | | µg/kg dry | 606 | 500 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-2 (6-8')** SB00047-10 | 127-17797-09011 | Soil | 27-Aug-09 11:30 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | GS | | | Initial weight: 15.38 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 103-65-1 | n-Propylbenzene | 5,810 | | µg/kg dry | 606 | 500 | SW846 8260B | 02-Sep-09 | 02-Sep-09 | 9090137 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | 34,600 | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10,900 | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | 14,400 | | µg/kg dry | 1210 | 500 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 6060 | 500 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 606 | 500 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 6060 | 500 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 12100 | 500 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 3030 | 500 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 242000 | 500 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *107* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *98* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *92* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *94* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/kg dry | 262 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-2 (6-8')** | 127-17797-09011 | Soil | 27-Aug-09 11:30 | 28-Aug-09 |
| SB00047-10 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/kg dry | 525 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | |
| 78-59-1 | Isophorone | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/kg dry | 2100 | 1 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/kg dry | 2100 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-2 (6-8')** | 127-17797-09011 | Soil | 27-Aug-09 11:30 | 28-Aug-09 |
| SB00047-10 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/kg dry | 525 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 108-95-2 | Phenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/kg dry | 262 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/kg dry | 525 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *78* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *52* | | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *72* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *48* | | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *62* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *69* | | *15-110 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/kg dry | 20.8 | 1 | SW846 8082 | 02-Sep-09 | 04-Sep-09 | 9090131 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/kg dry | 20.8 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *50* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *78* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 21.1 | 1 | +CT ETPH | 04-Sep-09 | 08-Sep-09 | 9090295 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 21.1 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *96* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

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

* Reportable Detection Limit  BRL = Below Reporting Limit

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-2 (6-8')** | 127-17797-09011 | Soil | 27-Aug-09 11:30 | 28-Aug-09 |
| SB00047-10 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.67 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 5.14 | | mg/kg dry | 1.67 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 104 | | mg/kg dry | 1.11 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.556 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 19.2 | | mg/kg dry | 1.11 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0305 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 9.24 | | mg/kg dry | 1.67 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.67 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 89.3 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-5 (2-4')**<br>SB00047-11 | 127-17797-09011 | Soil | 27-Aug-09 11:45 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | | | | Initial weight: 6.12 g | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 5.6 | 1 | SW846 8260B | 04-Sep-09 | 08-Sep-09 | 9090426 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 56.2 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 11.2 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 56.2 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 28.1 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 11.2 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 11.2 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 11.2 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 11.2 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 56.2 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-5 (2-4')** | 127-17797-09011 | Soil | 27-Aug-09 11:45 | 28-Aug-09 |
| SB00047-11 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | Initial weight: 6.12 g | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 56.2 | 1 | SW846 8260B | 04-Sep-09 | 08-Sep-09 | 9090426 | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 56.2 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 11.2 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 56.2 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 5.6 | 1 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 56.2 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 112 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 28.1 | 1 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 2250 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *93* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *101* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *112* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *104* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 30.7 | 1 | +CT ETPH | 08-Sep-09 | 08-Sep-09 | 9090410 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 30.7 | 1 | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-5 (2-4')**<br>SB00047-11 | 127-17797-09011 | Soil | 27-Aug-09 11:45 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 30.7 | 1 | +CT ETPH | 08-Sep-09 | 08-Sep-09 | 9090410 | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *87* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.67 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 2.82 | | mg/kg dry | 1.67 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 76.7 | | mg/kg dry | 1.11 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.556 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 16.2 | | mg/kg dry | 1.11 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0329 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 16.2 | | mg/kg dry | 1.67 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.67 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 85.5 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-4 (5-7')** | 127-17797-09011 | Soil | 27-Aug-09 12:40 | 28-Aug-09 |
| SB00047-12 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | R05 | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 17.21 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 65.0 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 650 | 50 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 130 | 50 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 650 | 50 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 325 | 50 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 130 | 50 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 130 | 50 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 130 | 50 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 130 | 50 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 650 | 50 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 650 | 50 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 650 | 50 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-4 (5-7')**<br>SB00047-12 | 127-17797-09011 | Soil | 27-Aug-09 12:40 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | R05 | | | Initial weight: 17.21 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 65.0 | 50 | SW846 8260B | 01-Sep-09 | 01-Sep-09 | 9090030 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 130 | 50 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 650 | 50 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 65.0 | 50 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 650 | 50 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 1300 | 50 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 325 | 50 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 26000 | 50 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *110* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *96* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *91* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *86* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/kg dry | 292 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-4 (5-7')** | 127-17797-09011 | Soil | 27-Aug-09 12:40 | 28-Aug-09 |
| SB00047-12 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/kg dry | 584 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | |
| 78-59-1 | Isophorone | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/kg dry | 2340 | 1 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/kg dry | 2340 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-4 (5-7')**<br>SB00047-12 | 127-17797-09011 | Soil | 27-Aug-09 12:40 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/kg dry | 584 | 1 | SW846 8270C | 03-Sep-09 | 04-Sep-09 | 9090296 | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 108-95-2 | Phenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/kg dry | 292 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/kg dry | 584 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *64* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *51* | | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *65* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *46* | | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *52* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *69* | | *15-110 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/kg dry | 23.4 | 1 | SW846 8082 | 02-Sep-09 | 04-Sep-09 | 9090131 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/kg dry | 23.4 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *63* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *85* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 23.5 | 1 | +CT ETPH | 04-Sep-09 | 05-Sep-09 | 9090295 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | Calculated as | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| | Unidentified | 202 | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| | Other Oil | Calculated as | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | 202 | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | 202 | | mg/kg dry | 23.5 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *89* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-4 (5-7')**<br>SB00047-12 | 127-17797-09011 | Soil | 27-Aug-09 12:40 | 28-Aug-09 |

| *CAS No.* | *Analyte(s)* | *Result* | *Flag* | *Units* | **RDL* | *Dilution* | *Method Ref.* | *Prepared* | *Analyzed* | *Batch* | *Cert.* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.77 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 3.91 | | mg/kg dry | 1.77 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 159 | | mg/kg dry | 1.18 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.588 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 26.4 | | mg/kg dry | 1.18 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0366 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 9.44 | | mg/kg dry | 1.77 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.77 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 81.4 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (4-6')**<br>SB00047-14 | 127-17797-09011 | Soil | 27-Aug-09 13:25 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | | | | Initial weight: 6.03 g | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 6.5 | 1 | SW846 8260B | 09-Sep-09 | 09-Sep-09 | 9090541 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 64.7 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 12.9 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 64.7 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 32.4 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 12.9 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 12.9 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 12.9 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 12.9 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 64.7 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (4-6')** | 127-17797-09011 | Soil | 27-Aug-09 13:25 | 28-Aug-09 |
| SB00047-14 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | Initial weight: 6.03 g | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 64.7 | 1 | SW846 8260B | 09-Sep-09 | 09-Sep-09 | 9090541 | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 64.7 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 12.9 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 64.7 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 6.5 | 1 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 64.7 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 129 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 32.4 | 1 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 2590 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *92* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *102* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *113* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *105* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/kg dry | 300 | 1 | SW846 8270C | 03-Sep-09 | 05-Sep-09 | 9090296 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (4-6')**<br>SB00047-14 | 127-17797-09011 | Soil | 27-Aug-09 13:25 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/kg dry | 300 | 1 | SW846 8270C | 03-Sep-09 | 05-Sep-09 | 9090296 | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | |
| 78-59-1 | Isophorone | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/kg dry | 2400 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (4-6')** | 127-17797-09011 | Soil | 27-Aug-09 13:25 | 28-Aug-09 |
| SB00047-14 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 98-95-3 | Nitrobenzene | BRL | | µg/kg dry | 599 | 1 | SW846 8270C | 03-Sep-09 | 05-Sep-09 | 9090296 | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/kg dry | 2400 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 108-95-2 | Phenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/kg dry | 300 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/kg dry | 599 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *69* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *47* | | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *59* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *44* | | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *58* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *66* | | *15-110 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 24.2 | 1 | +CT ETPH | 04-Sep-09 | 05-Sep-09 | 9090295 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 24.2 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *90* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.78 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 4.42 | | mg/kg dry | 1.78 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 141 | | mg/kg dry | 1.18 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.592 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 26.4 | | mg/kg dry | 1.18 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0366 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 9.73 | | mg/kg dry | 1.78 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.78 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 79.7 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:30 | 28-Aug-09 |
| SB00047-15 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 67-64-1 | Acetone | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 74-97-5 | Bromochloromethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:30 | 28-Aug-09 |
| SB00047-15 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 100-42-5 | Styrene | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/l | 10.0 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/l | 20.0 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 64-17-5 | Ethanol | BRL | | µg/l | 400 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *96* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *100* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *107* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *106* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 5.26 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:30 | 28-Aug-09 |
| SB00047-15 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/l | 5.26 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 78-59-1 | Isophorone | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/l | 10.5 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/l | 21.1 | 1 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/l | 21.1 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/l | 21.1 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:30 | 28-Aug-09 |
| SB00047-15 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 5.26 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-95-2 | Phenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *45* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *14* | Z-2 | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *42* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *12* | Z-2 | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *69* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *70* | | *15-110 %* | | | " | " | " | " | |
| SVOCs by SW846 8270C SIM | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 0.050 | 1 | " | " | 03-Sep-09 | " | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 120-12-7 | Anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | 0.053 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | 0.095 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 91-20-3 | Naphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | 0.074 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *46* | | *30-130 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *74* | | *30-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/l | 0.211 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/l | 0.211 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/l | 0.211 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/l | 0.211 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/l | 0.211 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/l | 0.211 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/l | 0.211 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-13 (H2O)**<br>SB00047-15 | 127-17797-09011 | Ground Water | 27-Aug-09 13:30 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/l | 0.211 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/l | 0.211 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *44* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *56* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/l | 0.1 | 1 | +CT ETPH | 01-Sep-09 | 03-Sep-09 | 9090008 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Unidentified | 0.8 | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Other Oil | Calculated as | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | 0.8 | | mg/l | 0.1 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | 0.8 | | mg/l | 0.1 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *76* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/l | 0.0050 | 1 | SW846 6010B | 08-Sep-09 | 09-Sep-09 | 9090312 | X |
| 7440-38-2 | Arsenic | 0.0105 | | mg/l | 0.0040 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 0.427 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/l | 0.0025 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 0.0414 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7439-92-1 | Lead | 0.100 | | mg/l | 0.0075 | 1 | " | " | " | " | X |
| 7782-49-2 | Selenium | BRL | | mg/l | 0.0150 | 1 | " | " | " | " | X |
| **Total Metals by EPA 200 Series Methods** | | | | | | | | | | | |
| 7439-97-6 | Mercury | BRL | | mg/l | 0.00020 | 1 | EPA 245.1/7470A | 08-Sep-09 | 09-Sep-09 | 9090313 | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (6-8')** | 127-17797-09011 | Soil | 27-Aug-09 13:40 | 28-Aug-09 |
| SB00047-16 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | | | | Initial weight: 6.32 g | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 5.7 | 1 | SW846 8260B | 09-Sep-09 | 09-Sep-09 | 9090541 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 57.4 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 11.5 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 57.4 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 28.7 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 11.5 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 11.5 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 11.5 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 11.5 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 57.4 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | 6.2 | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (6-8')** SB00047-16 | 127-17797-09011 | Soil | 27-Aug-09 13:40 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | Initial weight: 6.32 g | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| Re-analysis of Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5035A Soil (low level) | | | | | | | | | | | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 57.4 | 1 | SW846 8260B | 09-Sep-09 | 09-Sep-09 | 9090541 | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 57.4 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 11.5 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 57.4 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 5.7 | 1 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 57.4 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 115 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/kg dry | 28.7 | 1 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 2290 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *96* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *102* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *115* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *107* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/kg dry | 22.0 | 1 | SW846 8082 | 02-Sep-09 | 04-Sep-09 | 9090131 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/kg dry | 22.0 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (6-8')** | 127-17797-09011 | Soil | 27-Aug-09 13:40 | 28-Aug-09 |
| SB00047-16 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *55* | | *30-150 %* | | | SW846 8082 | 02-Sep-09 | 04-Sep-09 | 9090131 | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *86* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 31.8 | 1 | +CT ETPH | 08-Sep-09 | 08-Sep-09 | 9090410 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 31.8 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *93* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.80 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 4.28 | | mg/kg dry | 1.80 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 154 | | mg/kg dry | 1.20 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.598 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 28.0 | | mg/kg dry | 1.20 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0338 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 9.90 | | mg/kg dry | 1.80 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.80 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 83.4 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (H2O)**<br>SB00047-17 | 127-17797-09011 | Ground Water | 27-Aug-09 13:45 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 67-64-1 | Acetone | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 74-97-5 | Bromochloromethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:45 | 28-Aug-09 |
| SB00047-17 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 100-42-5 | Styrene | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/l | 10.0 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/l | 20.0 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 64-17-5 | Ethanol | BRL | | µg/l | 400 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *99* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *101* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *102* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *107* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 5.26 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:45 | 28-Aug-09 |
| SB00047-17 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/l | 5.26 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 78-59-1 | Isophorone | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/l | 10.5 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/l | 21.1 | 1 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/l | 21.1 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/l | 21.1 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:45 | 28-Aug-09 |
| SB00047-17 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 5.26 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-95-2 | Phenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/l | 5.26 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *59* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *46* | | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *65* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *27* | | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *72* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *75* | | *15-110 %* | | | " | " | " | " | |
| SVOCs by SW846 8270C SIM | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 0.050 | 1 | " | " | 03-Sep-09 | " | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 120-12-7 | Anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 91-20-3 | Naphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *60* | | *30-130 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *74* | | *30-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/l | 0.213 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/l | 0.213 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/l | 0.213 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/l | 0.213 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/l | 0.213 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/l | 0.213 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/l | 0.213 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-14 (H2O)** | 127-17797-09011 | Ground Water | 27-Aug-09 13:45 | 28-Aug-09 |
| SB00047-17 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/l | 0.213 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/l | 0.213 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *48* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *47* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/l | 0.1 | 1 | +CT ETPH | 01-Sep-09 | 03-Sep-09 | 9090008 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Unidentified | 0.5 | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Other Oil | Calculated as | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | 0.5 | | mg/l | 0.1 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | 0.5 | | mg/l | 0.1 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *63* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/l | 0.0050 | 1 | SW846 6010B | 08-Sep-09 | 09-Sep-09 | 9090312 | X |
| 7440-38-2 | Arsenic | 0.0089 | | mg/l | 0.0040 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 0.289 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | 0.0026 | | mg/l | 0.0025 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 0.0354 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7439-92-1 | Lead | 0.111 | | mg/l | 0.0075 | 1 | " | " | " | " | X |
| 7782-49-2 | Selenium | BRL | | mg/l | 0.0150 | 1 | " | " | " | " | X |
| **Total Metals by EPA 200 Series Methods** | | | | | | | | | | | |
| 7439-97-6 | Mercury | 0.00021 | | mg/l | 0.00020 | 1 | EPA 245.1/7470A | 08-Sep-09 | 09-Sep-09 | 9090313 | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-16 (6-7.5')** | 127-17797-09011 | Soil | 27-Aug-09 14:30 | 28-Aug-09 |
| SB00047-19 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| Volatile Organic Compounds | | | GS | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | Initial weight: 14.31 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 148 | 100 | SW846 8260B | 03-Sep-09 | 03-Sep-09 | 9090222 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 1480 | 100 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 296 | 100 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 1480 | 100 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | 1,970 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | 815 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 741 | 100 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | 646 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 296 | 100 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 296 | 100 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 296 | 100 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | 200 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | 267 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | 446 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 296 | 100 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 1480 | 100 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | 464 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | 470 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 1480 | 100 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 1480 | 100 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 8,370 | CAL1 | µg/kg dry | 148 | 100 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-16 (6-7.5')** | 127-17797-09011 | Soil | 27-Aug-09 14:30 | 28-Aug-09 |
| SB00047-19 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | GS | | | Initial weight: 14.31 g | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | | |
| 103-65-1 | n-Propylbenzene | 1,960 | | µg/kg dry | 148 | 100 | SW846 8260B | 03-Sep-09 | 03-Sep-09 | 9090222 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2,580 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | 295 | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | 590 | | µg/kg dry | 296 | 100 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 1480 | 100 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 148 | 100 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 1480 | 100 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 2960 | 100 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | CAL1 | µg/kg dry | 741 | 100 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 59300 | 100 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *109* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *102* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *106* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *86* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/kg dry | 555 | 2 | SW846 8270C | 03-Sep-09 | 05-Sep-09 | 9090296 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-16 (6-7.5')** | 127-17797-09011 | Soil | 27-Aug-09 14:30 | 28-Aug-09 |
| SB00047-19 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/kg dry | 1110 | 2 | SW846 8270C | 03-Sep-09 | 05-Sep-09 | 9090296 | X |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | 1,250 | | µg/kg dry | 555 | 2 | " | " | " | " | |
| 78-59-1 | Isophorone | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | 1,790 | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 91-20-3 | Naphthalene | 1,670 | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/kg dry | 4440 | 2 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/kg dry | 4440 | 2 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-16 (6-7.5')** | 127-17797-09011 | Soil | 27-Aug-09 14:30 | 28-Aug-09 |
| SB00047-19 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/kg dry | 1110 | 2 | SW846 8270C | 03-Sep-09 | 05-Sep-09 | 9090296 | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 108-95-2 | Phenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/kg dry | 555 | 2 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/kg dry | 1110 | 2 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *80* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *54* | | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *61* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *47* | | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *47* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *74* | | *15-110 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/kg dry | 23.0 | 1 | SW846 8082 | 02-Sep-09 | 04-Sep-09 | 9090131 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/kg dry | 23.0 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *50* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *70* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 22.4 | 1 | +CT ETPH | 04-Sep-09 | 05-Sep-09 | 9090295 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | Calculated as | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | Calculated as | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| | Unidentified | 4,240 | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| | Other Oil | Calculated as | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | 4,240 | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | 4,240 | | mg/kg dry | 22.4 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *107* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **RSB-16 (6-7.5')** | 127-17797-09011 | Soil | 27-Aug-09 14:30 | 28-Aug-09 |
| SB00047-19 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.78 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 3.73 | | mg/kg dry | 1.78 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 104 | | mg/kg dry | 1.18 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.592 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 18.8 | | mg/kg dry | 1.18 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0354 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 239 | | mg/kg dry | 1.78 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.78 | 1 | " | " | " | " | X |
| **SPLP Metals by EPA 1312 & 6000/7000 Series Methods** | | | | | | | | | | | |
| | SPLP Extraction | Completed | | N/A | | 1 | SW846 1312 | 31-Aug-09 | 31-Aug-09 | 9082164 | |
| 7440-22-4 | Silver | BRL | | mg/l | 0.0100 | 1 | SW846 1312/6010B | 01-Sep-09 | 01-Sep-09 | 9090010 | |
| 7440-38-2 | Arsenic | BRL | | mg/l | 0.0080 | 1 | " | " | " | " | |
| 7440-39-3 | Barium | 0.0623 | | mg/l | 0.0100 | 1 | " | " | " | " | |
| 7440-43-9 | Cadmium | BRL | | mg/l | 0.0050 | 1 | " | " | " | " | |
| 7440-47-3 | Chromium | BRL | | mg/l | 0.0100 | 1 | " | " | " | " | |
| 7439-97-6 | Mercury | BRL | | mg/l | 0.00020 | 1 | SW846 1312/7470A | " | 02-Sep-09 | 9090011 | |
| 7439-92-1 | Lead | 0.0361 | | mg/l | 0.0150 | 1 | SW846 1312/6010B | " | 01-Sep-09 | 9090010 | |
| 7782-49-2 | Selenium | BRL | | mg/l | 0.0300 | 1 | " | " | " | " | |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 82.5 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate**<br>SB00047-20 | 127-17797-09011 | Soil | 27-Aug-09 00:00 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| | VOC Extraction | Field extracted | | N/A | | 1 | VOC Soil Extraction | 29-Aug-09 | 29-Aug-09 | 9082106 | |
| | Volatile Organic Compounds | | R05, V11 | | | Initial weight: 16.01 g | | | | | |
| | Prepared by method SW846 5030 Soil (high level) | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg dry | 76.6 | 50 | SW846 8260B | 04-Sep-09 | 04-Sep-09 | 9090329 | X |
| 67-64-1 | Acetone | BRL | | µg/kg dry | 766 | 50 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/kg dry | 153 | 50 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/kg dry | 766 | 50 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/kg dry | 383 | 50 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/kg dry | 153 | 50 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/kg dry | 153 | 50 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/kg dry | 153 | 50 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/kg dry | 153 | 50 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/kg dry | 766 | 50 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg dry | 766 | 50 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/kg dry | 766 | 50 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | CAL1 | µg/kg dry | 76.6 | 50 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate** SB00047-20 | 127-17797-09011 | Soil | 27-Aug-09 00:00 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | R05, V11 | | | | | | | | |
| Prepared by method SW846 5030 Soil (high level) | | | | | Initial weight: 16.01 g | | | | | | |
| 103-65-1 | n-Propylbenzene | BRL | | µg/kg dry | 76.6 | 50 | SW846 8260B | 04-Sep-09 | 04-Sep-09 | 9090329 | X |
| 100-42-5 | Styrene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/kg dry | 153 | 50 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/kg dry | 766 | 50 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/kg dry | 76.6 | 50 | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/kg dry | 766 | 50 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/kg dry | 1530 | 50 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | CAL1 | µg/kg dry | 383 | 50 | " | " | " | " | |
| 64-17-5 | Ethanol | BRL | | µg/kg dry | 30700 | 50 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *103* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *99* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *99* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *84* | | *70-130 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3545A | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/kg dry | 34.5 | 1 | +CT ETPH | 08-Sep-09 | 08-Sep-09 | 9090410 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| | Unidentified | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| | Other Oil | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 34.5 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *76* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |

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

* Reportable Detection Limit  BRL = Below Reporting Limit

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate** SB00047-20 | 127-17797-09011 | Soil | 27-Aug-09 00:00 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/kg dry | 1.67 | 1 | SW846 6010B | 03-Sep-09 | 05-Sep-09 | 9090244 | X |
| 7440-38-2 | Arsenic | 5.69 | | mg/kg dry | 1.67 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 246 | | mg/kg dry | 1.11 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | BRL | | mg/kg dry | 0.557 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 39.0 | | mg/kg dry | 1.11 | 1 | " | " | " | " | X |
| 7439-97-6 | Mercury | BRL | | mg/kg dry | 0.0341 | 1 | SW846 7471A | " | 04-Sep-09 | 9090245 | X |
| 7439-92-1 | Lead | 12.6 | | mg/kg dry | 1.67 | 1 | SW846 6010B | " | 05-Sep-09 | 9090244 | X |
| 7782-49-2 | Selenium | BRL | | mg/kg dry | 1.67 | 1 | " | " | " | " | X |
| **General Chemistry Parameters** | | | | | | | | | | | |
| | % Solids | 76.5 | | % | | 1 | SM2540 G Mod. | 31-Aug-09 | 31-Aug-09 | 9082183 | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate** | 127-17797-09011 | Ground Water | 27-Aug-09 00:00 | 28-Aug-09 |
| SB00047-21 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 67-64-1 | Acetone | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 74-97-5 | Bromochloromethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate** SB00047-21 | 127-17797-09011 | Ground Water | 27-Aug-09 00:00 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 100-42-5 | Styrene | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/l | 10.0 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/l | 20.0 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 64-17-5 | Ethanol | BRL | | µg/l | 400 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *96* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *99* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *108* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *109* | | *70-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 5.95 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 62-53-3 | Aniline | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 120-12-7 | Anthracene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 1912-24-9 | Atrazine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | |
| 103-33-3 | Azobenzene/Diphenyldiazine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | |
| 92-87-5 | Benzidine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 65-85-0 | Benzoic acid | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 111-91-1 | Bis(2-chloroethoxy)methane | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate** | 127-17797-09011 | Ground Water | 27-Aug-09 00:00 | 28-Aug-09 |
| SB00047-21 | | | | |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 111-44-4 | Bis(2-chloroethyl)ether | BRL | | µg/l | 5.95 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-60-1 | Bis(2-chloroisopropyl)ether | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 101-55-3 | 4-Bromophenyl phenyl ether | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 85-68-7 | Butyl benzyl phthalate | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 86-74-8 | Carbazole | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 106-47-8 | 4-Chloroaniline | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 91-58-7 | 2-Chloronaphthalene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 95-57-8 | 2-Chlorophenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 132-64-9 | Dibenzofuran | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 120-83-2 | 2,4-Dichlorophenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 84-66-2 | Diethyl phthalate | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 131-11-3 | Dimethyl phthalate | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 105-67-9 | 2,4-Dimethylphenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 77-47-4 | Hexachlorocyclopentadiene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 67-72-1 | Hexachloroethane | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 78-59-1 | Isophorone | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 95-48-7 | 2-Methylphenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | BRL | | µg/l | 11.9 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | BRL | | µg/l | 23.8 | 1 | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | BRL | | µg/l | 23.8 | 1 | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 86-30-6 | N-Nitrosodiphenylamine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 87-86-5 | Pentachlorophenol | BRL | | µg/l | 23.8 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate** SB00047-21 | 127-17797-09011 | Ground Water | 27-Aug-09 00:00 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GCMS** | | | | | | | | | | | |
| Semivolatile Organic Compounds by SW846 8270C | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 5.95 | 1 | SW846 8270C | 02-Sep-09 | 11-Sep-09 | 9090106 | X |
| 108-95-2 | Phenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 110-86-1 | Pyridine | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | BRL | | µg/l | 5.95 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *59* | | *30-130 %* | | | " | " | " | " | |
| *367-12-4* | *2-Fluorophenol* | *47* | | *15-110 %* | | | " | " | " | " | |
| *4165-60-0* | *Nitrobenzene-d5* | *63* | | *30-130 %* | | | " | " | " | " | |
| *4165-62-2* | *Phenol-d5* | *31* | | *15-110 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *70* | | *30-130 %* | | | " | " | " | " | |
| *118-79-6* | *2,4,6-Tribromophenol* | *74* | | *15-110 %* | | | " | " | " | " | |
| SVOCs by SW846 8270C SIM | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | BRL | | µg/l | 0.050 | 1 | " | " | 03-Sep-09 | " | X |
| 208-96-8 | Acenaphthylene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 90-12-0 | 1-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 120-12-7 | Anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 56-55-3 | Benzo (a) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 50-32-8 | Benzo (a) pyrene | 0.083 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 205-99-2 | Benzo (b) fluoranthene | 0.095 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | 0.071 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 207-08-9 | Benzo (k) fluoranthene | 0.071 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 218-01-9 | Chrysene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 53-70-3 | Dibenzo (a,h) anthracene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 206-44-0 | Fluoranthene | 0.179 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 86-73-7 | Fluorene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | |
| 91-20-3 | Naphthalene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 85-01-8 | Phenanthrene | BRL | | µg/l | 0.050 | 1 | " | " | " | " | X |
| 129-00-0 | Pyrene | 0.143 | | µg/l | 0.050 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *321-60-8* | *2-Fluorobiphenyl* | *61* | | *30-130 %* | | | " | " | " | " | |
| *1718-51-0* | *Terphenyl-dl4* | *75* | | *30-130 %* | | | " | " | " | " | |
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | BRL | | µg/l | 0.222 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11104-28-2 | Aroclor-1221 | BRL | | µg/l | 0.222 | 1 | " | " | " | " | X |
| 11141-16-5 | Aroclor-1232 | BRL | | µg/l | 0.222 | 1 | " | " | " | " | X |
| 53469-21-9 | Aroclor-1242 | BRL | | µg/l | 0.222 | 1 | " | " | " | " | X |
| 12672-29-6 | Aroclor-1248 | BRL | | µg/l | 0.222 | 1 | " | " | " | " | X |
| 11097-69-1 | Aroclor-1254 | BRL | | µg/l | 0.222 | 1 | " | " | " | " | X |
| 11096-82-5 | Aroclor-1260 | BRL | | µg/l | 0.222 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Duplicate** SB00047-21 | 127-17797-09011 | Ground Water | 27-Aug-09 00:00 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organic Compounds by GC** | | | | | | | | | | | |
| Polychlorinated Biphenyls by SW846 8082 | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 37324-23-5 | Aroclor-1262 | BRL | | µg/l | 0.222 | 1 | SW846 8082 | 31-Aug-09 | 02-Sep-09 | 9082129 | X |
| 11100-14-4 | Aroclor-1268 | BRL | | µg/l | 0.222 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *10386-84-2* | *4,4-DB-Octafluorobiphenyl (Sr)* | *50* | | *30-150 %* | | | " | " | " | " | |
| *2051-24-3* | *Decachlorobiphenyl (Sr)* | *49* | | *30-150 %* | | | " | " | " | " | |
| **Extractable Petroleum Hydrocarbons** | | | | | | | | | | | |
| Extractable Total Petroleum Hydrocarbons | | | | | | | | | | | |
| Prepared by method SW846 3510C | | | | | | | | | | | |
| 8006-61-9 | Gasoline | BRL | | mg/l | 0.1 | 1 | +CT ETPH | 01-Sep-09 | 03-Sep-09 | 9090008 | |
| 68476-30-2 | Fuel Oil #2 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68476-31-3 | Fuel Oil #4 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| 68553-00-4 | Fuel Oil #6 | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| M09800000 | Motor Oil | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| J00100000 | Aviation Fuel | BRL | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Unidentified | 0.8 | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Other Oil | Calculated as | | mg/l | 0.1 | 1 | " | " | " | " | |
| | Total Petroleum Hydrocarbons | 0.8 | | mg/l | 0.1 | 1 | " | " | " | " | |
| | C9-C36 Aliphatic Hydrocarbons | 0.8 | | mg/l | 0.1 | 1 | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *3386-33-2* | *1-Chlorooctadecane* | *70* | | *50-150 %* | | | " | " | " | " | |
| **Total Metals by EPA 6000/7000 Series Methods** | | | | | | | | | | | |
| 7440-22-4 | Silver | BRL | | mg/l | 0.0050 | 1 | SW846 6010B | 08-Sep-09 | 09-Sep-09 | 9090312 | X |
| 7440-38-2 | Arsenic | 0.0126 | | mg/l | 0.0040 | 1 | " | " | " | " | X |
| 7440-39-3 | Barium | 0.570 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7440-43-9 | Cadmium | 0.0032 | | mg/l | 0.0025 | 1 | " | " | " | " | X |
| 7440-47-3 | Chromium | 0.0600 | | mg/l | 0.0050 | 1 | " | " | " | " | X |
| 7439-92-1 | Lead | 0.156 | | mg/l | 0.0075 | 1 | " | " | " | " | X |
| 7782-49-2 | Selenium | BRL | | mg/l | 0.0150 | 1 | " | " | " | " | X |
| **Total Metals by EPA 200 Series Methods** | | | | | | | | | | | |
| 7439-97-6 | Mercury | 0.00028 | | mg/l | 0.00020 | 1 | EPA 245.1/7470A | 08-Sep-09 | 09-Sep-09 | 9090313 | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Trip Blank**<br>SB00047-22 | 127-17797-09011 | Aqueous | 27-Aug-09 10:20 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 67-64-1 | Acetone | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 71-43-2 | Benzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-86-1 | Bromobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 74-97-5 | Bromochloromethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 75-25-2 | Bromoform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-83-9 | Bromomethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 78-93-3 | 2-Butanone (MEK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-00-3 | Chloroethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 67-66-3 | Chloroform | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 74-87-3 | Chloromethane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 74-95-3 | Dibromomethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-50-1 | 1,2-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 107-06-2 | 1,2-Dichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-35-4 | 1,1-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-59-2 | cis-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 156-60-5 | trans-1,2-Dichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 78-87-5 | 1,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 142-28-9 | 1,3-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 594-20-7 | 2,2-Dichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 563-58-6 | 1,1-Dichloropropene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 10061-02-6 | trans-1,3-Dichloropropene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 100-41-4 | Ethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 98-82-8 | Isopropylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 75-09-2 | Methylene chloride | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 91-20-3 | Naphthalene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 103-65-1 | n-Propylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Trip Blank**<br>SB00047-22 | 127-17797-09011 | Aqueous | 27-Aug-09 10:20 | 28-Aug-09 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | Dilution | Method Ref. | Prepared | Analyzed | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Prepared by method SW846 5030 Water MS | | | | | | | | | | | |
| 100-42-5 | Styrene | BRL | | µg/l | 1.0 | 1 | SW846 8260B | 01-Sep-09 | 03-Sep-09 | 9090223 | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | BRL | | µg/l | 0.5 | 1 | " | " | " | " | X |
| 127-18-4 | Tetrachloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-88-3 | Toluene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 87-61-6 | 1,2,3-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-70-3 | 1,3,5-Trichlorobenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 79-01-6 | Trichloroethene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 95-63-6 | 1,2,4-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-01-4 | Vinyl chloride | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 179601-23-1 | m,p-Xylene | BRL | | µg/l | 2.0 | 1 | " | " | " | " | X |
| 95-47-6 | o-Xylene | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 109-99-9 | Tetrahydrofuran | BRL | | µg/l | 10.0 | 1 | " | " | " | " | |
| 60-29-7 | Ethyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | |
| 994-05-8 | Tert-amyl methyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 637-92-3 | Ethyl tert-butyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 108-20-3 | Di-isopropyl ether | BRL | | µg/l | 1.0 | 1 | " | " | " | " | X |
| 75-65-0 | Tert-Butanol / butyl alcohol | BRL | | µg/l | 10.0 | 1 | " | " | " | " | X |
| 123-91-1 | 1,4-Dioxane | BRL | | µg/l | 20.0 | 1 | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-butene | BRL | | µg/l | 5.0 | 1 | " | " | " | " | X |
| 64-17-5 | Ethanol | BRL | | µg/l | 400 | 1 | " | " | " | " | X |
| *Surrogate recoveries:* | | | | | | | | | | | |
| *460-00-4* | *4-Bromofluorobenzene* | *97* | | *70-130 %* | | | " | " | " | " | |
| *2037-26-5* | *Toluene-d8* | *101* | | *70-130 %* | | | " | " | " | " | |
| *17060-07-0* | *1,2-Dichloroethane-d4* | *108* | | *70-130 %* | | | " | " | " | " | |
| *1868-53-7* | *Dibromofluoromethane* | *109* | | *70-130 %* | | | " | " | " | " | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9082173 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9082173-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 10.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 1.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 2.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 10.0 | | | | | | |
| Naphthalene | BRL | | µg/kg wet | 1.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9082173 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9082173-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Styrene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 2.0 | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 10.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 20.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 400 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *30.2* | | µg/kg wet | | *30.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | *28.6* | | µg/kg wet | | *30.0* | | *96* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *27.2* | | µg/kg wet | | *30.0* | | *91* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *28.5* | | µg/kg wet | | *30.0* | | *95* | *70-130* | | |
| **LCS (9082173-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 24.5 | | µg/kg wet | | 20.0 | | 123 | 70-130 | | |
| Acetone | 15.0 | | µg/kg wet | | 20.0 | | 75 | 40-136 | | |
| Acrylonitrile | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| Benzene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Bromobenzene | 30.8 | QC2 | µg/kg wet | | 20.0 | | 154 | 70-130 | | |
| Bromochloromethane | 27.2 | QC2 | µg/kg wet | | 20.0 | | 136 | 70-130 | | |
| Bromodichloromethane | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Bromoform | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| Bromomethane | 18.0 | | µg/kg wet | | 20.0 | | 90 | 61-151 | | |
| 2-Butanone (MEK) | 16.1 | | µg/kg wet | | 20.0 | | 80 | 61.5-132 | | |
| n-Butylbenzene | 13.9 | | µg/kg wet | | 20.0 | | 70 | 70-130 | | |
| sec-Butylbenzene | 22.6 | | µg/kg wet | | 20.0 | | 113 | 70-130 | | |
| tert-Butylbenzene | 26.3 | QM9 | µg/kg wet | | 20.0 | | 132 | 70-130 | | |
| Carbon disulfide | 15.6 | | µg/kg wet | | 20.0 | | 78 | 70-130 | | |
| Carbon tetrachloride | 25.8 | | µg/kg wet | | 20.0 | | 129 | 70-130 | | |
| Chlorobenzene | 25.6 | | µg/kg wet | | 20.0 | | 128 | 70-130 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9082173 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9082173-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| Chloroethane | 15.7 | | µg/kg wet | | 20.0 | | 78 | 66-130 | | |
| Chloroform | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| Chloromethane | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| 2-Chlorotoluene | 23.6 | | µg/kg wet | | 20.0 | | 118 | 70-130 | | |
| 4-Chlorotoluene | 23.6 | | µg/kg wet | | 20.0 | | 118 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 6.0 | QC2 | µg/kg wet | | 20.0 | | 30 | 70-130 | | |
| Dibromochloromethane | 19.3 | | µg/kg wet | | 20.0 | | 97 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Dibromomethane | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| 1,2-Dichlorobenzene | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | | |
| 1,3-Dichlorobenzene | 29.9 | QC2 | µg/kg wet | | 20.0 | | 150 | 70-130 | | |
| 1,4-Dichlorobenzene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 23.6 | | µg/kg wet | | 20.0 | | 118 | 51.9-130 | | |
| 1,1-Dichloroethane | 20.3 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| 1,2-Dichloroethane | 18.7 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,1-Dichloroethene | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| cis-1,2-Dichloroethene | 23.8 | | µg/kg wet | | 20.0 | | 119 | 70-130 | | |
| trans-1,2-Dichloroethene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| 1,2-Dichloropropane | 18.5 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,3-Dichloropropane | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| 2,2-Dichloropropane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| 1,1-Dichloropropene | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| cis-1,3-Dichloropropene | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| trans-1,3-Dichloropropene | 15.1 | | µg/kg wet | | 20.0 | | 76 | 70-130 | | |
| Ethylbenzene | 24.4 | | µg/kg wet | | 20.0 | | 122 | 70-130 | | |
| Hexachlorobutadiene | 14.9 | | µg/kg wet | | 20.0 | | 75 | 70-133 | | |
| 2-Hexanone (MBK) | 14.6 | | µg/kg wet | | 20.0 | | 73 | 70-130 | | |
| Isopropylbenzene | 21.7 | | µg/kg wet | | 20.0 | | 108 | 70-130 | | |
| 4-Isopropyltoluene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| Methyl tert-butyl ether | 23.9 | | µg/kg wet | | 20.0 | | 120 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 15.1 | | µg/kg wet | | 20.0 | | 75 | 50.3-133 | | |
| Methylene chloride | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Naphthalene | 14.5 | | µg/kg wet | | 20.0 | | 73 | 70-130 | | |
| n-Propylbenzene | 22.8 | | µg/kg wet | | 20.0 | | 114 | 70-130 | | |
| Styrene | 25.3 | | µg/kg wet | | 20.0 | | 126 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Tetrachloroethene | 29.7 | QC2 | µg/kg wet | | 20.0 | | 148 | 70-130 | | |
| Toluene | 19.9 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 16.9 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 18.5 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,1,1-Trichloroethane | 23.5 | | µg/kg wet | | 20.0 | | 118 | 70-130 | | |
| 1,1,2-Trichloroethane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| Trichloroethene | 22.8 | | µg/kg wet | | 20.0 | | 114 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 19.9 | | µg/kg wet | | 20.0 | | 99 | 70-147 | | |
| 1,2,3-Trichloropropane | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 24.7 | | µg/kg wet | | 20.0 | | 124 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 25.6 | | µg/kg wet | | 20.0 | | 128 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9082173 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9082173-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| Vinyl chloride | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| m,p-Xylene | 51.1 | | µg/kg wet | | 40.0 | | 128 | 70-130 | | |
| o-Xylene | 26.3 | QM9 | µg/kg wet | | 20.0 | | 131 | 70-130 | | |
| Tetrahydrofuran | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Ethyl ether | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Tert-amyl methyl ether | 18.9 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Ethyl tert-butyl ether | 18.9 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Di-isopropyl ether | 18.1 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 182 | | µg/kg wet | | 200 | | 91 | 70-130 | | |
| 1,4-Dioxane | 216 | | µg/kg wet | | 200 | | 108 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 14.5 | | µg/kg wet | | 20.0 | | 73 | 70-130 | | |
| Ethanol | 360 | | µg/kg wet | | 400 | | 90 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *33.2* | | µg/kg wet | | *30.0* | | *111* | *70-130* | | |
| *Surrogate: Toluene-d8* | *28.9* | | µg/kg wet | | *30.0* | | *96* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *26.9* | | µg/kg wet | | *30.0* | | *90* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *32.9* | | µg/kg wet | | *30.0* | | *110* | *70-130* | | |
| **LCS Dup (9082173-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 23.2 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 5 | 25 |
| Acetone | 17.7 | | µg/kg wet | | 20.0 | | 88 | 40-136 | 17 | 50 |
| Acrylonitrile | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 13 | 25 |
| Benzene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 3 | 25 |
| Bromobenzene | 28.8 | QC2 | µg/kg wet | | 20.0 | | 144 | 70-130 | 7 | 25 |
| Bromochloromethane | 28.5 | QC2 | µg/kg wet | | 20.0 | | 143 | 70-130 | 5 | 25 |
| Bromodichloromethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 2 | 25 |
| Bromoform | 18.7 | | µg/kg wet | | 20.0 | | 93 | 70-130 | 5 | 25 |
| Bromomethane | 18.9 | | µg/kg wet | | 20.0 | | 95 | 61-151 | 5 | 50 |
| 2-Butanone (MEK) | 17.7 | | µg/kg wet | | 20.0 | | 88 | 61.5-132 | 9 | 50 |
| n-Butylbenzene | 13.6 | QM9 | µg/kg wet | | 20.0 | | 68 | 70-130 | 2 | 25 |
| sec-Butylbenzene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 6 | 25 |
| tert-Butylbenzene | 24.6 | | µg/kg wet | | 20.0 | | 123 | 70-130 | 7 | 25 |
| Carbon disulfide | 15.7 | | µg/kg wet | | 20.0 | | 79 | 70-130 | 0.8 | 25 |
| Carbon tetrachloride | 24.8 | | µg/kg wet | | 20.0 | | 124 | 70-130 | 4 | 25 |
| Chlorobenzene | 23.9 | | µg/kg wet | | 20.0 | | 120 | 70-130 | 7 | 25 |
| Chloroethane | 15.7 | | µg/kg wet | | 20.0 | | 78 | 66-130 | 0.1 | 50 |
| Chloroform | 22.5 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 1 | 25 |
| Chloromethane | 18.7 | | µg/kg wet | | 20.0 | | 93 | 70-130 | 2 | 25 |
| 2-Chlorotoluene | 22.5 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 5 | 25 |
| 4-Chlorotoluene | 22.7 | | µg/kg wet | | 20.0 | | 114 | 70-130 | 4 | 25 |
| 1,2-Dibromo-3-chloropropane | 12.3 | QC2, QR5 | µg/kg wet | | 20.0 | | 62 | 70-130 | 70 | 25 |
| Dibromochloromethane | 19.2 | | µg/kg wet | | 20.0 | | 96 | 64.6-130 | 0.7 | 50 |
| 1,2-Dibromoethane (EDB) | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 2 | 25 |
| Dibromomethane | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 0.3 | 25 |
| 1,2-Dichlorobenzene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 2 | 25 |
| 1,3-Dichlorobenzene | 27.6 | QC2 | µg/kg wet | | 20.0 | | 138 | 70-130 | 8 | 25 |
| 1,4-Dichlorobenzene | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 5 | 25 |
| Dichlorodifluoromethane (Freon12) | 23.0 | | µg/kg wet | | 20.0 | | 115 | 51.9-130 | 2 | 50 |
| 1,1-Dichloroethane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 3 | 25 |
| 1,2-Dichloroethane | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 5 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9082173 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS Dup (9082173-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| 1,1-Dichloroethene | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 0.1 | 25 |
| cis-1,2-Dichloroethene | 23.9 | | µg/kg wet | | 20.0 | | 119 | 70-130 | 0.5 | 25 |
| trans-1,2-Dichloroethene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 0.1 | 25 |
| 1,2-Dichloropropane | 19.3 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 4 | 25 |
| 1,3-Dichloropropane | 18.9 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 7 | 25 |
| 2,2-Dichloropropane | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-130 | 4 | 25 |
| 1,1-Dichloropropene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 1 | 25 |
| cis-1,3-Dichloropropene | 16.9 | | µg/kg wet | | 20.0 | | 84 | 70-130 | 2 | 25 |
| trans-1,3-Dichloropropene | 15.4 | | µg/kg wet | | 20.0 | | 77 | 70-130 | 2 | 25 |
| Ethylbenzene | 23.2 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 5 | 25 |
| Hexachlorobutadiene | 13.2 | QM9 | µg/kg wet | | 20.0 | | 66 | 70-133 | 13 | 50 |
| 2-Hexanone (MBK) | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | 13 | 25 |
| Isopropylbenzene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 6 | 25 |
| 4-Isopropyltoluene | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 6 | 25 |
| Methyl tert-butyl ether | 24.8 | | µg/kg wet | | 20.0 | | 124 | 70-130 | 4 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 16.3 | | µg/kg wet | | 20.0 | | 82 | 50.3-133 | 8 | 50 |
| Methylene chloride | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 4 | 25 |
| Naphthalene | 14.0 | | µg/kg wet | | 20.0 | | 70 | 70-130 | 3 | 25 |
| n-Propylbenzene | 21.7 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 5 | 25 |
| Styrene | 23.1 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 9 | 25 |
| 1,1,1,2-Tetrachloroethane | 19.5 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 14 | 25 |
| 1,1,2,2-Tetrachloroethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 2 | 25 |
| Tetrachloroethene | 27.7 | QC2 | µg/kg wet | | 20.0 | | 139 | 70-130 | 7 | 25 |
| Toluene | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 1 | 25 |
| 1,2,3-Trichlorobenzene | 15.4 | | µg/kg wet | | 20.0 | | 77 | 70-130 | 9 | 25 |
| 1,2,4-Trichlorobenzene | 15.0 | | µg/kg wet | | 20.0 | | 75 | 70-130 | 12 | 25 |
| 1,3,5-Trichlorobenzene | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 6 | 25 |
| 1,1,1-Trichloroethane | 22.5 | | µg/kg wet | | 20.0 | | 113 | 70-130 | 4 | 25 |
| 1,1,2-Trichloroethane | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 3 | 25 |
| Trichloroethene | 22.8 | | µg/kg wet | | 20.0 | | 114 | 70-130 | 0.2 | 25 |
| Trichlorofluoromethane (Freon 11) | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-147 | 4 | 50 |
| 1,2,3-Trichloropropane | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 0.4 | 25 |
| 1,2,4-Trimethylbenzene | 23.2 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 6 | 25 |
| 1,3,5-Trimethylbenzene | 24.3 | | µg/kg wet | | 20.0 | | 121 | 70-130 | 5 | 25 |
| Vinyl chloride | 17.1 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 4 | 25 |
| m,p-Xylene | 48.2 | | µg/kg wet | | 40.0 | | 120 | 70-130 | 6 | 25 |
| o-Xylene | 24.4 | | µg/kg wet | | 20.0 | | 122 | 70-130 | 7 | 25 |
| Tetrahydrofuran | 20.5 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 7 | 25 |
| Ethyl ether | 17.5 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 0.7 | 50 |
| Tert-amyl methyl ether | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 4 | 25 |
| Ethyl tert-butyl ether | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 7 | 25 |
| Di-isopropyl ether | 19.5 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 8 | 25 |
| Tert-Butanol / butyl alcohol | 202 | | µg/kg wet | | 200 | | 101 | 70-130 | 10 | 25 |
| 1,4-Dioxane | 218 | | µg/kg wet | | 200 | | 109 | 60-146 | 1 | 25 |
| trans-1,4-Dichloro-2-butene | 13.2 | QM9 | µg/kg wet | | 20.0 | | 66 | 70-130 | 10 | 25 |
| Ethanol | 424 | | µg/kg wet | | 400 | | 106 | 70-130 | 17 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *33.3* | | µg/kg wet | | *30.0* | | *111* | *70-130* | | |
| *Surrogate: Toluene-d8* | *29.5* | | µg/kg wet | | *30.0* | | *98* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *29.0* | | µg/kg wet | | *30.0* | | *97* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *33.2* | | µg/kg wet | | *30.0* | | *111* | *70-130* | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090030 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090030-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 10.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 1.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 2.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 10.0 | | | | | | |
| Naphthalene | BRL | | µg/kg wet | 1.0 | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090030 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090030-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Styrene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 2.0 | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 10.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 20.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 400 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *31.1* | | µg/kg wet | | *30.0* | | *104* | *70-130* | | |
| *Surrogate: Toluene-d8* | *29.2* | | µg/kg wet | | *30.0* | | *97* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *27.6* | | µg/kg wet | | *30.0* | | *92* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *28.0* | | µg/kg wet | | *30.0* | | *93* | *70-130* | | |
| **LCS (9090030-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 24.0 | | µg/kg wet | | 20.0 | | 120 | 70-130 | | |
| Acetone | 19.0 | | µg/kg wet | | 20.0 | | 95 | 40-136 | | |
| Acrylonitrile | 19.3 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Benzene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Bromobenzene | 28.0 | QC2 | µg/kg wet | | 20.0 | | 140 | 70-130 | | |
| Bromochloromethane | 26.6 | QM9 | µg/kg wet | | 20.0 | | 133 | 70-130 | | |
| Bromodichloromethane | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Bromoform | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Bromomethane | 17.4 | | µg/kg wet | | 20.0 | | 87 | 61-151 | | |
| 2-Butanone (MEK) | 18.8 | | µg/kg wet | | 20.0 | | 94 | 61.5-132 | | |
| n-Butylbenzene | 14.0 | | µg/kg wet | | 20.0 | | 70 | 70-130 | | |
| sec-Butylbenzene | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| tert-Butylbenzene | 24.4 | | µg/kg wet | | 20.0 | | 122 | 70-130 | | |
| Carbon disulfide | 15.9 | | µg/kg wet | | 20.0 | | 80 | 70-130 | | |
| Carbon tetrachloride | 23.8 | | µg/kg wet | | 20.0 | | 119 | 70-130 | | |
| Chlorobenzene | 24.1 | | µg/kg wet | | 20.0 | | 121 | 70-130 | | |
| Chloroethane | 16.0 | | µg/kg wet | | 20.0 | | 80 | 66-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090030 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9090030-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Chloroform | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| Chloromethane | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| 2-Chlorotoluene | 22.9 | | µg/kg wet | | 20.0 | | 114 | 70-130 | | |
| 4-Chlorotoluene | 22.8 | | µg/kg wet | | 20.0 | | 114 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 12.5 | QC2 | µg/kg wet | | 20.0 | | 62 | 70-130 | | |
| Dibromochloromethane | 18.2 | | µg/kg wet | | 20.0 | | 91 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| Dibromomethane | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| 1,2-Dichlorobenzene | 21.7 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| 1,3-Dichlorobenzene | 27.7 | QC2 | µg/kg wet | | 20.0 | | 138 | 70-130 | | |
| 1,4-Dichlorobenzene | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 24.0 | | µg/kg wet | | 20.0 | | 120 | 51.9-130 | | |
| 1,1-Dichloroethane | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 1,2-Dichloroethane | 19.5 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| 1,1-Dichloroethene | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| cis-1,2-Dichloroethene | 22.8 | | µg/kg wet | | 20.0 | | 114 | 70-130 | | |
| trans-1,2-Dichloroethene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,2-Dichloropropane | 18.9 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| 1,3-Dichloropropane | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| 2,2-Dichloropropane | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | | |
| 1,1-Dichloropropene | 20.7 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| cis-1,3-Dichloropropene | 16.3 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| trans-1,3-Dichloropropene | 15.0 | | µg/kg wet | | 20.0 | | 75 | 70-130 | | |
| Ethylbenzene | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | | |
| Hexachlorobutadiene | 14.9 | | µg/kg wet | | 20.0 | | 75 | 70-133 | | |
| 2-Hexanone (MBK) | 16.2 | | µg/kg wet | | 20.0 | | 81 | 70-130 | | |
| Isopropylbenzene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| 4-Isopropyltoluene | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| Methyl tert-butyl ether | 21.5 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 16.3 | | µg/kg wet | | 20.0 | | 82 | 50.3-133 | | |
| Methylene chloride | 17.3 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Naphthalene | 15.2 | | µg/kg wet | | 20.0 | | 76 | 70-130 | | |
| n-Propylbenzene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Styrene | 24.3 | | µg/kg wet | | 20.0 | | 122 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Tetrachloroethene | 25.8 | | µg/kg wet | | 20.0 | | 129 | 70-130 | | |
| Toluene | 18.7 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 17.3 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 17.1 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| 1,1,1-Trichloroethane | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | | |
| 1,1,2-Trichloroethane | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Trichloroethene | 22.5 | | µg/kg wet | | 20.0 | | 113 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-147 | | |
| 1,2,3-Trichloropropane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 23.0 | | µg/kg wet | | 20.0 | | 115 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 24.1 | | µg/kg wet | | 20.0 | | 120 | 70-130 | | |
| Vinyl chloride | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090030 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9090030-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| m,p-Xylene | 48.5 | | µg/kg wet | | 40.0 | | 121 | 70-130 | | |
| o-Xylene | 24.7 | | µg/kg wet | | 20.0 | | 124 | 70-130 | | |
| Tetrahydrofuran | 19.9 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Ethyl ether | 17.9 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| Tert-amyl methyl ether | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Ethyl tert-butyl ether | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Di-isopropyl ether | 18.7 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 201 | | µg/kg wet | | 200 | | 100 | 70-130 | | |
| 1,4-Dioxane | 223 | | µg/kg wet | | 200 | | 112 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 15.1 | | µg/kg wet | | 20.0 | | 75 | 70-130 | | |
| Ethanol | 414 | | µg/kg wet | | 400 | | 104 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *32.7* | | µg/kg wet | | *30.0* | | *109* | *70-130* | | |
| *Surrogate: Toluene-d8* | *28.5* | | µg/kg wet | | *30.0* | | *95* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *27.8* | | µg/kg wet | | *30.0* | | *93* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *32.6* | | µg/kg wet | | *30.0* | | *109* | *70-130* | | |
| **LCS Dup (9090030-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 24.3 | | µg/kg wet | | 20.0 | | 122 | 70-130 | 1 | 25 |
| Acetone | 18.6 | | µg/kg wet | | 20.0 | | 93 | 40-136 | 2 | 50 |
| Acrylonitrile | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 3 | 25 |
| Benzene | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 2 | 25 |
| Bromobenzene | 29.0 | QC2 | µg/kg wet | | 20.0 | | 145 | 70-130 | 4 | 25 |
| Bromochloromethane | 25.8 | | µg/kg wet | | 20.0 | | 129 | 70-130 | 3 | 25 |
| Bromodichloromethane | 19.3 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 0.3 | 25 |
| Bromoform | 19.3 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 0.05 | 25 |
| Bromomethane | 17.7 | | µg/kg wet | | 20.0 | | 88 | 61-151 | 1 | 50 |
| 2-Butanone (MEK) | 19.1 | | µg/kg wet | | 20.0 | | 96 | 61.5-132 | 1 | 50 |
| n-Butylbenzene | 14.0 | | µg/kg wet | | 20.0 | | 70 | 70-130 | 0.1 | 25 |
| sec-Butylbenzene | 21.5 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 0.5 | 25 |
| tert-Butylbenzene | 24.7 | | µg/kg wet | | 20.0 | | 123 | 70-130 | 1 | 25 |
| Carbon disulfide | 16.2 | | µg/kg wet | | 20.0 | | 81 | 70-130 | 2 | 25 |
| Carbon tetrachloride | 23.7 | | µg/kg wet | | 20.0 | | 119 | 70-130 | 0.04 | 25 |
| Chlorobenzene | 25.0 | | µg/kg wet | | 20.0 | | 125 | 70-130 | 4 | 25 |
| Chloroethane | 15.7 | | µg/kg wet | | 20.0 | | 79 | 66-130 | 2 | 50 |
| Chloroform | 22.3 | | µg/kg wet | | 20.0 | | 111 | 70-130 | 4 | 25 |
| Chloromethane | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 2 | 25 |
| 2-Chlorotoluene | 23.6 | | µg/kg wet | | 20.0 | | 118 | 70-130 | 3 | 25 |
| 4-Chlorotoluene | 23.0 | | µg/kg wet | | 20.0 | | 115 | 70-130 | 0.7 | 25 |
| 1,2-Dibromo-3-chloropropane | 12.2 | QC2 | µg/kg wet | | 20.0 | | 61 | 70-130 | 3 | 25 |
| Dibromochloromethane | 18.3 | | µg/kg wet | | 20.0 | | 92 | 64.6-130 | 0.6 | 50 |
| 1,2-Dibromoethane (EDB) | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 2 | 25 |
| Dibromomethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 4 | 25 |
| 1,2-Dichlorobenzene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 0.5 | 25 |
| 1,3-Dichlorobenzene | 27.6 | QC2 | µg/kg wet | | 20.0 | | 138 | 70-130 | 0.3 | 25 |
| 1,4-Dichlorobenzene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 0.5 | 25 |
| Dichlorodifluoromethane (Freon12) | 24.8 | | µg/kg wet | | 20.0 | | 124 | 51.9-130 | 4 | 50 |
| 1,1-Dichloroethane | 24.7 | | µg/kg wet | | 20.0 | | 123 | 70-130 | 22 | 25 |
| 1,2-Dichloroethane | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 0.4 | 25 |
| 1,1-Dichloroethene | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 2 | 25 |
| cis-1,2-Dichloroethene | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 2 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090030 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS Dup (9090030-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| trans-1,2-Dichloroethene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 1 | 25 |
| 1,2-Dichloropropane | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 2 | 25 |
| 1,3-Dichloropropane | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | 3 | 25 |
| 2,2-Dichloropropane | 21.9 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 0.5 | 25 |
| 1,1-Dichloropropene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 1 | 25 |
| cis-1,3-Dichloropropene | 16.5 | | µg/kg wet | | 20.0 | | 82 | 70-130 | 0.9 | 25 |
| trans-1,3-Dichloropropene | 14.7 | | µg/kg wet | | 20.0 | | 73 | 70-130 | 2 | 25 |
| Ethylbenzene | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | 0.3 | 25 |
| Hexachlorobutadiene | 14.8 | | µg/kg wet | | 20.0 | | 74 | 70-133 | 0.6 | 50 |
| 2-Hexanone (MBK) | 15.4 | | µg/kg wet | | 20.0 | | 77 | 70-130 | 5 | 25 |
| Isopropylbenzene | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 2 | 25 |
| 4-Isopropyltoluene | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 0.2 | 25 |
| Methyl tert-butyl ether | 25.5 | | µg/kg wet | | 20.0 | | 128 | 70-130 | 17 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 15.8 | | µg/kg wet | | 20.0 | | 79 | 50.3-133 | 3 | 50 |
| Methylene chloride | 17.5 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 1 | 25 |
| Naphthalene | 14.8 | | µg/kg wet | | 20.0 | | 74 | 70-130 | 3 | 25 |
| n-Propylbenzene | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 1 | 25 |
| Styrene | 24.3 | | µg/kg wet | | 20.0 | | 122 | 70-130 | 0.08 | 25 |
| 1,1,1,2-Tetrachloroethane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 0.1 | 25 |
| 1,1,2,2-Tetrachloroethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 1 | 25 |
| Tetrachloroethene | 27.2 | QM9 | µg/kg wet | | 20.0 | | 136 | 70-130 | 5 | 25 |
| Toluene | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 2 | 25 |
| 1,2,3-Trichlorobenzene | 17.2 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 0.5 | 25 |
| 1,2,4-Trichlorobenzene | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | 2 | 25 |
| 1,3,5-Trichlorobenzene | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 0.8 | 25 |
| 1,1,1-Trichloroethane | 22.5 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 4 | 25 |
| 1,1,2-Trichloroethane | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 1 | 25 |
| Trichloroethene | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | 4 | 25 |
| Trichlorofluoromethane (Freon 11) | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-147 | 5 | 50 |
| 1,2,3-Trichloropropane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 2 | 25 |
| 1,2,4-Trimethylbenzene | 23.2 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 0.6 | 25 |
| 1,3,5-Trimethylbenzene | 24.6 | | µg/kg wet | | 20.0 | | 123 | 70-130 | 2 | 25 |
| Vinyl chloride | 17.9 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 5 | 25 |
| m,p-Xylene | 49.6 | | µg/kg wet | | 40.0 | | 124 | 70-130 | 2 | 25 |
| o-Xylene | 24.7 | | µg/kg wet | | 20.0 | | 123 | 70-130 | 0.04 | 25 |
| Tetrahydrofuran | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 5 | 25 |
| Ethyl ether | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 0.5 | 50 |
| Tert-amyl methyl ether | 17.1 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 11 | 25 |
| Ethyl tert-butyl ether | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 5 | 25 |
| Di-isopropyl ether | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | 0.3 | 25 |
| Tert-Butanol / butyl alcohol | 207 | | µg/kg wet | | 200 | | 103 | 70-130 | 3 | 25 |
| 1,4-Dioxane | 219 | | µg/kg wet | | 200 | | 109 | 60-146 | 2 | 25 |
| trans-1,4-Dichloro-2-butene | 12.6 | QM9 | µg/kg wet | | 20.0 | | 63 | 70-130 | 18 | 25 |
| Ethanol | 489 | | µg/kg wet | | 400 | | 122 | 70-130 | 17 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *32.1* | | µg/kg wet | | *30.0* | | *107* | *70-130* | | |
| *Surrogate: Toluene-d8* | *28.6* | | µg/kg wet | | *30.0* | | *95* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *27.8* | | µg/kg wet | | *30.0* | | *93* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *33.1* | | µg/kg wet | | *30.0* | | *110* | *70-130* | | |
| **Batch 9090137 - SW846 5030 Soil (high level)** | | | | | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090137 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090137-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 10.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 1.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 2.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 10.0 | | | | | | |
| Naphthalene | BRL | | µg/kg wet | 1.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090137 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090137-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Styrene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 2.0 | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 10.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 20.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 400 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *30.7* | | µg/kg wet | | *30.0* | | *102* | *70-130* | | |
| *Surrogate: Toluene-d8* | *29.0* | | µg/kg wet | | *30.0* | | *97* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *28.3* | | µg/kg wet | | *30.0* | | *94* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *30.6* | | µg/kg wet | | *30.0* | | *102* | *70-130* | | |
| **LCS (9090137-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 25.9 | | µg/kg wet | | 20.0 | | 130 | 70-130 | | |
| Acetone | 13.8 | | µg/kg wet | | 20.0 | | 69 | 40-136 | | |
| Acrylonitrile | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| Benzene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Bromobenzene | 30.6 | QC2 | µg/kg wet | | 20.0 | | 153 | 70-130 | | |
| Bromochloromethane | 26.8 | QC2 | µg/kg wet | | 20.0 | | 134 | 70-130 | | |
| Bromodichloromethane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| Bromoform | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Bromomethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 61-151 | | |
| 2-Butanone (MEK) | 17.0 | | µg/kg wet | | 20.0 | | 85 | 61.5-132 | | |
| n-Butylbenzene | 14.4 | | µg/kg wet | | 20.0 | | 72 | 70-130 | | |
| sec-Butylbenzene | 22.6 | | µg/kg wet | | 20.0 | | 113 | 70-130 | | |
| tert-Butylbenzene | 26.0 | | µg/kg wet | | 20.0 | | 130 | 70-130 | | |
| Carbon disulfide | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| Carbon tetrachloride | 28.0 | QC2 | µg/kg wet | | 20.0 | | 140 | 70-130 | | |
| Chlorobenzene | 25.9 | | µg/kg wet | | 20.0 | | 129 | 70-130 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090137 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9090137-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| Chloroethane | 16.8 | | µg/kg wet | | 20.0 | | 84 | 66-130 | | |
| Chloroform | 22.7 | | µg/kg wet | | 20.0 | | 113 | 70-130 | | |
| Chloromethane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| 2-Chlorotoluene | 24.9 | | µg/kg wet | | 20.0 | | 125 | 70-130 | | |
| 4-Chlorotoluene | 24.3 | | µg/kg wet | | 20.0 | | 122 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 11.3 | QC2 | µg/kg wet | | 20.0 | | 56 | 70-130 | | |
| Dibromochloromethane | 20.6 | | µg/kg wet | | 20.0 | | 103 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| Dibromomethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 1,2-Dichlorobenzene | 22.1 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| 1,3-Dichlorobenzene | 29.7 | QC2 | µg/kg wet | | 20.0 | | 149 | 70-130 | | |
| 1,4-Dichlorobenzene | 21.3 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 24.8 | | µg/kg wet | | 20.0 | | 124 | 51.9-130 | | |
| 1,1-Dichloroethane | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| 1,2-Dichloroethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 1,1-Dichloroethene | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| cis-1,2-Dichloroethene | 23.9 | | µg/kg wet | | 20.0 | | 119 | 70-130 | | |
| trans-1,2-Dichloroethene | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| 1,2-Dichloropropane | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| 1,3-Dichloropropane | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| 2,2-Dichloropropane | 22.3 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| 1,1-Dichloropropene | 21.9 | | µg/kg wet | | 20.0 | | 110 | 70-130 | | |
| cis-1,3-Dichloropropene | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| trans-1,3-Dichloropropene | 14.9 | | µg/kg wet | | 20.0 | | 74 | 70-130 | | |
| Ethylbenzene | 24.9 | | µg/kg wet | | 20.0 | | 124 | 70-130 | | |
| Hexachlorobutadiene | 15.1 | | µg/kg wet | | 20.0 | | 75 | 70-133 | | |
| 2-Hexanone (MBK) | 15.2 | | µg/kg wet | | 20.0 | | 76 | 70-130 | | |
| Isopropylbenzene | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| 4-Isopropyltoluene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Methyl tert-butyl ether | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 15.0 | | µg/kg wet | | 20.0 | | 75 | 50.3-133 | | |
| Methylene chloride | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| Naphthalene | 14.2 | | µg/kg wet | | 20.0 | | 71 | 70-130 | | |
| n-Propylbenzene | 22.8 | | µg/kg wet | | 20.0 | | 114 | 70-130 | | |
| Styrene | 25.6 | | µg/kg wet | | 20.0 | | 128 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 23.7 | | µg/kg wet | | 20.0 | | 118 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 18.9 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Tetrachloroethene | 27.7 | QC2 | µg/kg wet | | 20.0 | | 138 | 70-130 | | |
| Toluene | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 17.1 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 18.7 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| 1,1,1-Trichloroethane | 24.1 | | µg/kg wet | | 20.0 | | 120 | 70-130 | | |
| 1,1,2-Trichloroethane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| Trichloroethene | 23.1 | | µg/kg wet | | 20.0 | | 116 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 20.9 | | µg/kg wet | | 20.0 | | 105 | 70-147 | | |
| 1,2,3-Trichloropropane | 19.9 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 25.0 | | µg/kg wet | | 20.0 | | 125 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 26.1 | | µg/kg wet | | 20.0 | | 130 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090137 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9090137-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| Vinyl chloride | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| m,p-Xylene | 52.2 | | µg/kg wet | | 40.0 | | 130 | 70-130 | | |
| o-Xylene | 26.6 | QM9 | µg/kg wet | | 20.0 | | 133 | 70-130 | | |
| Tetrahydrofuran | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| Ethyl ether | 17.1 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| Tert-amyl methyl ether | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| Ethyl tert-butyl ether | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| Di-isopropyl ether | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 179 | | µg/kg wet | | 200 | | 89 | 70-130 | | |
| 1,4-Dioxane | 218 | | µg/kg wet | | 200 | | 109 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 11.6 | QM9 | µg/kg wet | | 20.0 | | 58 | 70-130 | | |
| Ethanol | 379 | | µg/kg wet | | 400 | | 95 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *32.6* | | µg/kg wet | | *30.0* | | *109* | *70-130* | | |
| *Surrogate: Toluene-d8* | *29.4* | | µg/kg wet | | *30.0* | | *98* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *27.5* | | µg/kg wet | | *30.0* | | *92* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *33.7* | | µg/kg wet | | *30.0* | | *112* | *70-130* | | |
| **LCS Dup (9090137-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 24.8 | | µg/kg wet | | 20.0 | | 124 | 70-130 | 4 | 25 |
| Acetone | 17.0 | | µg/kg wet | | 20.0 | | 85 | 40-136 | 21 | 50 |
| Acrylonitrile | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 8 | 25 |
| Benzene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 3 | 25 |
| Bromobenzene | 29.3 | QC2 | µg/kg wet | | 20.0 | | 147 | 70-130 | 4 | 25 |
| Bromochloromethane | 26.8 | QC2 | µg/kg wet | | 20.0 | | 134 | 70-130 | 0.07 | 25 |
| Bromodichloromethane | 20.9 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 0.3 | 25 |
| Bromoform | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 3 | 25 |
| Bromomethane | 17.4 | | µg/kg wet | | 20.0 | | 87 | 61-151 | 8 | 50 |
| 2-Butanone (MEK) | 16.9 | | µg/kg wet | | 20.0 | | 85 | 61.5-132 | 0.5 | 50 |
| n-Butylbenzene | 13.4 | QM9 | µg/kg wet | | 20.0 | | 67 | 70-130 | 7 | 25 |
| sec-Butylbenzene | 21.7 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 4 | 25 |
| tert-Butylbenzene | 25.8 | | µg/kg wet | | 20.0 | | 129 | 70-130 | 0.9 | 25 |
| Carbon disulfide | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | 4 | 25 |
| Carbon tetrachloride | 27.0 | QC2 | µg/kg wet | | 20.0 | | 135 | 70-130 | 4 | 25 |
| Chlorobenzene | 25.7 | | µg/kg wet | | 20.0 | | 128 | 70-130 | 0.6 | 25 |
| Chloroethane | 16.7 | | µg/kg wet | | 20.0 | | 83 | 66-130 | 1 | 50 |
| Chloroform | 22.3 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 1 | 25 |
| Chloromethane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 3 | 25 |
| 2-Chlorotoluene | 24.5 | | µg/kg wet | | 20.0 | | 123 | 70-130 | 2 | 25 |
| 4-Chlorotoluene | 23.5 | | µg/kg wet | | 20.0 | | 117 | 70-130 | 4 | 25 |
| 1,2-Dibromo-3-chloropropane | 10.8 | QC2 | µg/kg wet | | 20.0 | | 54 | 70-130 | 5 | 25 |
| Dibromochloromethane | 20.9 | | µg/kg wet | | 20.0 | | 105 | 64.6-130 | 2 | 50 |
| 1,2-Dibromoethane (EDB) | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 0.4 | 25 |
| Dibromomethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 0.05 | 25 |
| 1,2-Dichlorobenzene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 4 | 25 |
| 1,3-Dichlorobenzene | 28.6 | QC2 | µg/kg wet | | 20.0 | | 143 | 70-130 | 4 | 25 |
| 1,4-Dichlorobenzene | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 5 | 25 |
| Dichlorodifluoromethane (Freon12) | 24.3 | | µg/kg wet | | 20.0 | | 122 | 51.9-130 | 2 | 50 |
| 1,1-Dichloroethane | 21.7 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 2 | 25 |
| 1,2-Dichloroethane | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 1 | 25 |
| 1,1-Dichloroethene | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 2 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090137 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS Dup (9090137-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| cis-1,2-Dichloroethene | 23.6 | | µg/kg wet | | 20.0 | | 118 | 70-130 | 1 | 25 |
| trans-1,2-Dichloroethene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 1 | 25 |
| 1,2-Dichloropropane | 18.7 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 2 | 25 |
| 1,3-Dichloropropane | 17.3 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 3 | 25 |
| 2,2-Dichloropropane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 4 | 25 |
| 1,1-Dichloropropene | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 4 | 25 |
| cis-1,3-Dichloropropene | 16.7 | | µg/kg wet | | 20.0 | | 83 | 70-130 | 2 | 25 |
| trans-1,3-Dichloropropene | 15.2 | | µg/kg wet | | 20.0 | | 76 | 70-130 | 2 | 25 |
| Ethylbenzene | 23.9 | | µg/kg wet | | 20.0 | | 120 | 70-130 | 4 | 25 |
| Hexachlorobutadiene | 13.8 | QM9 | µg/kg wet | | 20.0 | | 69 | 70-133 | 9 | 50 |
| 2-Hexanone (MBK) | 15.1 | | µg/kg wet | | 20.0 | | 75 | 70-130 | 0.5 | 25 |
| Isopropylbenzene | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 5 | 25 |
| 4-Isopropyltoluene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 8 | 25 |
| Methyl tert-butyl ether | 24.8 | | µg/kg wet | | 20.0 | | 124 | 70-130 | 16 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 16.2 | | µg/kg wet | | 20.0 | | 81 | 50.3-133 | 8 | 50 |
| Methylene chloride | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 0.7 | 25 |
| Naphthalene | 14.0 | | µg/kg wet | | 20.0 | | 70 | 70-130 | 2 | 25 |
| n-Propylbenzene | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 6 | 25 |
| Styrene | 25.1 | | µg/kg wet | | 20.0 | | 126 | 70-130 | 2 | 25 |
| 1,1,1,2-Tetrachloroethane | 22.7 | | µg/kg wet | | 20.0 | | 114 | 70-130 | 4 | 25 |
| 1,1,2,2-Tetrachloroethane | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 2 | 25 |
| Tetrachloroethene | 26.9 | QC2 | µg/kg wet | | 20.0 | | 135 | 70-130 | 3 | 25 |
| Toluene | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 2 | 25 |
| 1,2,3-Trichlorobenzene | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | 3 | 25 |
| 1,2,4-Trichlorobenzene | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | 1 | 25 |
| 1,3,5-Trichlorobenzene | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 3 | 25 |
| 1,1,1-Trichloroethane | 23.8 | | µg/kg wet | | 20.0 | | 119 | 70-130 | 1 | 25 |
| 1,1,2-Trichloroethane | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 7 | 25 |
| Trichloroethene | 23.2 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 0.3 | 25 |
| Trichlorofluoromethane (Freon 11) | 20.7 | | µg/kg wet | | 20.0 | | 103 | 70-147 | 1 | 50 |
| 1,2,3-Trichloropropane | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 2 | 25 |
| 1,2,4-Trimethylbenzene | 23.9 | | µg/kg wet | | 20.0 | | 120 | 70-130 | 4 | 25 |
| 1,3,5-Trimethylbenzene | 25.0 | | µg/kg wet | | 20.0 | | 125 | 70-130 | 4 | 25 |
| Vinyl chloride | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 1 | 25 |
| m,p-Xylene | 50.2 | | µg/kg wet | | 40.0 | | 125 | 70-130 | 4 | 25 |
| o-Xylene | 25.5 | | µg/kg wet | | 20.0 | | 128 | 70-130 | 4 | 25 |
| Tetrahydrofuran | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 8 | 25 |
| Ethyl ether | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | 0.2 | 50 |
| Tert-amyl methyl ether | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 2 | 25 |
| Ethyl tert-butyl ether | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | 2 | 25 |
| Di-isopropyl ether | 18.1 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 1 | 25 |
| Tert-Butanol / butyl alcohol | 183 | | µg/kg wet | | 200 | | 91 | 70-130 | 2 | 25 |
| 1,4-Dioxane | 207 | | µg/kg wet | | 200 | | 104 | 60-146 | 5 | 25 |
| trans-1,4-Dichloro-2-butene | 14.4 | | µg/kg wet | | 20.0 | | 72 | 70-130 | 22 | 25 |
| Ethanol | 386 | | µg/kg wet | | 400 | | 97 | 70-130 | 2 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *32.7* | | µg/kg wet | | *30.0* | | *109* | *70-130* | | |
| *Surrogate: Toluene-d8* | *28.9* | | µg/kg wet | | *30.0* | | *96* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *27.6* | | µg/kg wet | | *30.0* | | *92* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *33.4* | | µg/kg wet | | *30.0* | | *112* | *70-130* | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090222 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090222-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 10.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 1.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 2.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 10.0 | | | | | | |
| Naphthalene | BRL | CAL1 | µg/kg wet | 1.0 | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090222 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090222-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| Styrene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 2.0 | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 10.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 20.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | CAL1 | µg/kg wet | 5.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 400 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *30.4* | | µg/kg wet | | *30.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | *29.8* | | µg/kg wet | | *30.0* | | *99* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *31.6* | | µg/kg wet | | *30.0* | | *105* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *33.7* | | µg/kg wet | | *30.0* | | *112* | *70-130* | | |
| **LCS (9090222-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 25.7 | | µg/kg wet | | 20.0 | | 129 | 70-130 | | |
| Acetone | 22.7 | | µg/kg wet | | 20.0 | | 113 | 40-136 | | |
| Acrylonitrile | 24.1 | | µg/kg wet | | 20.0 | | 120 | 70-130 | | |
| Benzene | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Bromobenzene | 20.9 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Bromochloromethane | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Bromodichloromethane | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Bromoform | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | | |
| Bromomethane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 61-151 | | |
| 2-Butanone (MEK) | 25.1 | | µg/kg wet | | 20.0 | | 125 | 61.5-132 | | |
| n-Butylbenzene | 19.1 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| sec-Butylbenzene | 23.3 | | µg/kg wet | | 20.0 | | 117 | 70-130 | | |
| tert-Butylbenzene | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | | |
| Carbon disulfide | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| Carbon tetrachloride | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| Chlorobenzene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| Chloroethane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 66-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090222 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9090222-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| Chloroform | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Chloromethane | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 2-Chlorotoluene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| 4-Chlorotoluene | 21.7 | | µg/kg wet | | 20.0 | | 108 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 21.7 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Dibromochloromethane | 20.2 | | µg/kg wet | | 20.0 | | 101 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 25.9 | | µg/kg wet | | 20.0 | | 129 | 70-130 | | |
| Dibromomethane | 21.9 | | µg/kg wet | | 20.0 | | 110 | 70-130 | | |
| 1,2-Dichlorobenzene | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| 1,3-Dichlorobenzene | 22.1 | | µg/kg wet | | 20.0 | | 110 | 70-130 | | |
| 1,4-Dichlorobenzene | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 18.8 | | µg/kg wet | | 20.0 | | 94 | 51.9-130 | | |
| 1,1-Dichloroethane | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| 1,2-Dichloroethane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| 1,1-Dichloroethene | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| cis-1,2-Dichloroethene | 21.5 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| trans-1,2-Dichloroethene | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| 1,2-Dichloropropane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| 1,3-Dichloropropane | 22.3 | | µg/kg wet | | 20.0 | | 112 | 70-130 | | |
| 2,2-Dichloropropane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| 1,1-Dichloropropene | 22.3 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| cis-1,3-Dichloropropene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| trans-1,3-Dichloropropene | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| Ethylbenzene | 21.3 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| Hexachlorobutadiene | 17.9 | | µg/kg wet | | 20.0 | | 90 | 70-133 | | |
| 2-Hexanone (MBK) | 24.0 | | µg/kg wet | | 20.0 | | 120 | 70-130 | | |
| Isopropylbenzene | 18.9 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| 4-Isopropyltoluene | 22.1 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| Methyl tert-butyl ether | 26.9 | QM9 | µg/kg wet | | 20.0 | | 135 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 23.3 | | µg/kg wet | | 20.0 | | 117 | 50.3-133 | | |
| Methylene chloride | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Naphthalene | 21.3 | CAL1 | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| n-Propylbenzene | 21.9 | | µg/kg wet | | 20.0 | | 110 | 70-130 | | |
| Styrene | 22.7 | | µg/kg wet | | 20.0 | | 113 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 26.0 | | µg/kg wet | | 20.0 | | 130 | 70-130 | | |
| Tetrachloroethene | 20.7 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| Toluene | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 17.3 | | µg/kg wet | | 20.0 | | 86 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| 1,1,1-Trichloroethane | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| 1,1,2-Trichloroethane | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | | |
| Trichloroethene | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-147 | | |
| 1,2,3-Trichloropropane | 27.4 | QC2 | µg/kg wet | | 20.0 | | 137 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 22.9 | | µg/kg wet | | 20.0 | | 114 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 22.3 | | µg/kg wet | | 20.0 | | 112 | 70-130 | | |
| Vinyl chloride | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090222 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9090222-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| m,p-Xylene | 42.2 | | µg/kg wet | | 40.0 | | 106 | 70-130 | | |
| o-Xylene | 22.3 | | µg/kg wet | | 20.0 | | 111 | 70-130 | | |
| Tetrahydrofuran | 27.0 | QM9 | µg/kg wet | | 20.0 | | 135 | 70-130 | | |
| Ethyl ether | 21.5 | | µg/kg wet | | 20.0 | | 108 | 70-130 | | |
| Tert-amyl methyl ether | 23.2 | | µg/kg wet | | 20.0 | | 116 | 70-130 | | |
| Ethyl tert-butyl ether | 21.9 | | µg/kg wet | | 20.0 | | 110 | 70-130 | | |
| Di-isopropyl ether | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 241 | | µg/kg wet | | 200 | | 121 | 70-130 | | |
| 1,4-Dioxane | 240 | | µg/kg wet | | 200 | | 120 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 25.4 | CAL1 | µg/kg wet | | 20.0 | | 127 | 70-130 | | |
| Ethanol | 517 | | µg/kg wet | | 400 | | 129 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *31.0* | | µg/kg wet | | *30.0* | | *103* | *70-130* | | |
| *Surrogate: Toluene-d8* | *30.6* | | µg/kg wet | | *30.0* | | *102* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *30.9* | | µg/kg wet | | *30.0* | | *103* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *31.2* | | µg/kg wet | | *30.0* | | *104* | *70-130* | | |
| **LCS Dup (9090222-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 25.9 | | µg/kg wet | | 20.0 | | 129 | 70-130 | 0.5 | 25 |
| Acetone | 25.4 | | µg/kg wet | | 20.0 | | 127 | 40-136 | 11 | 50 |
| Acrylonitrile | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 7 | 25 |
| Benzene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 2 | 25 |
| Bromobenzene | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 1 | 25 |
| Bromochloromethane | 20.9 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 4 | 25 |
| Bromodichloromethane | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 1 | 25 |
| Bromoform | 21.7 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 0.6 | 25 |
| Bromomethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 61-151 | 11 | 50 |
| 2-Butanone (MEK) | 23.9 | | µg/kg wet | | 20.0 | | 120 | 61.5-132 | 5 | 50 |
| n-Butylbenzene | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 4 | 25 |
| sec-Butylbenzene | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 4 | 25 |
| tert-Butylbenzene | 22.7 | | µg/kg wet | | 20.0 | | 114 | 70-130 | 3 | 25 |
| Carbon disulfide | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 6 | 25 |
| Carbon tetrachloride | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 3 | 25 |
| Chlorobenzene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 2 | 25 |
| Chloroethane | 20.7 | | µg/kg wet | | 20.0 | | 104 | 66-130 | 1 | 50 |
| Chloroform | 20.9 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 0.3 | 25 |
| Chloromethane | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 2 | 25 |
| 2-Chlorotoluene | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 1 | 25 |
| 4-Chlorotoluene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 3 | 25 |
| 1,2-Dibromo-3-chloropropane | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 8 | 25 |
| Dibromochloromethane | 20.8 | | µg/kg wet | | 20.0 | | 104 | 64.6-130 | 3 | 50 |
| 1,2-Dibromoethane (EDB) | 24.9 | | µg/kg wet | | 20.0 | | 125 | 70-130 | 4 | 25 |
| Dibromomethane | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 6 | 25 |
| 1,2-Dichlorobenzene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 2 | 25 |
| 1,3-Dichlorobenzene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 4 | 25 |
| 1,4-Dichlorobenzene | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 3 | 25 |
| Dichlorodifluoromethane (Freon12) | 19.1 | | µg/kg wet | | 20.0 | | 95 | 51.9-130 | 2 | 50 |
| 1,1-Dichloroethane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 2 | 25 |
| 1,2-Dichloroethane | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 3 | 25 |
| 1,1-Dichloroethene | 22.5 | | µg/kg wet | | 20.0 | | 113 | 70-130 | 2 | 25 |
| cis-1,2-Dichloroethene | 21.3 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 1 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090222 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS Dup (9090222-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| trans-1,2-Dichloroethene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 2 | 25 |
| 1,2-Dichloropropane | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 3 | 25 |
| 1,3-Dichloropropane | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 5 | 25 |
| 2,2-Dichloropropane | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 7 | 25 |
| 1,1-Dichloropropene | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 6 | 25 |
| cis-1,3-Dichloropropene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 1 | 25 |
| trans-1,3-Dichloropropene | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 0.1 | 25 |
| Ethylbenzene | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 0.8 | 25 |
| Hexachlorobutadiene | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-133 | 6 | 50 |
| 2-Hexanone (MBK) | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 13 | 25 |
| Isopropylbenzene | 18.7 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 1 | 25 |
| 4-Isopropyltoluene | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 3 | 25 |
| Methyl tert-butyl ether | 24.1 | | µg/kg wet | | 20.0 | | 121 | 70-130 | 11 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 22.1 | | µg/kg wet | | 20.0 | | 110 | 50.3-133 | 6 | 50 |
| Methylene chloride | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 0.2 | 25 |
| Naphthalene | 20.4 | CAL1 | µg/kg wet | | 20.0 | | 102 | 70-130 | 4 | 25 |
| n-Propylbenzene | 21.3 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 3 | 25 |
| Styrene | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 1 | 25 |
| 1,1,1,2-Tetrachloroethane | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | 10 | 25 |
| Tetrachloroethene | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 3 | 25 |
| Toluene | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 0.9 | 25 |
| 1,2,3-Trichlorobenzene | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 0.2 | 25 |
| 1,2,4-Trichlorobenzene | 17.1 | | µg/kg wet | | 20.0 | | 85 | 70-130 | 1 | 25 |
| 1,3,5-Trichlorobenzene | 17.5 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 5 | 25 |
| 1,1,1-Trichloroethane | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 1 | 25 |
| 1,1,2-Trichloroethane | 23.1 | | µg/kg wet | | 20.0 | | 115 | 70-130 | 1 | 25 |
| Trichloroethene | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 0.3 | 25 |
| Trichlorofluoromethane (Freon 11) | 23.9 | | µg/kg wet | | 20.0 | | 120 | 70-147 | 2 | 50 |
| 1,2,3-Trichloropropane | 26.2 | QC2 | µg/kg wet | | 20.0 | | 131 | 70-130 | 4 | 25 |
| 1,2,4-Trimethylbenzene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 5 | 25 |
| 1,3,5-Trimethylbenzene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 2 | 25 |
| Vinyl chloride | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 6 | 25 |
| m,p-Xylene | 42.6 | | µg/kg wet | | 40.0 | | 106 | 70-130 | 0.9 | 25 |
| o-Xylene | 21.5 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 3 | 25 |
| Tetrahydrofuran | 25.1 | | µg/kg wet | | 20.0 | | 125 | 70-130 | 8 | 25 |
| Ethyl ether | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 2 | 50 |
| Tert-amyl methyl ether | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 14 | 25 |
| Ethyl tert-butyl ether | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 8 | 25 |
| Di-isopropyl ether | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 3 | 25 |
| Tert-Butanol / butyl alcohol | 230 | | µg/kg wet | | 200 | | 115 | 70-130 | 5 | 25 |
| 1,4-Dioxane | 233 | | µg/kg wet | | 200 | | 116 | 60-146 | 3 | 25 |
| trans-1,4-Dichloro-2-butene | 19.9 | CAL1 | µg/kg wet | | 20.0 | | 100 | 70-130 | 24 | 25 |
| Ethanol | 444 | | µg/kg wet | | 400 | | 111 | 70-130 | 15 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *30.6* | | µg/kg wet | | *30.0* | | *102* | *70-130* | | |
| *Surrogate: Toluene-d8* | *30.5* | | µg/kg wet | | *30.0* | | *102* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *30.8* | | µg/kg wet | | *30.0* | | *103* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *31.0* | | µg/kg wet | | *30.0* | | *103* | *70-130* | | |
| **Matrix Spike (9090222-MS1)** | **Source: SB00047-08** | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090222 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Matrix Spike (9090222-MS1)** | **Source: SB00047-08** | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| Benzene | 22.7 | | µg/kg dry | | 20.0 | BRL | 114 | 70-130 | | |
| Chlorobenzene | 21.9 | | µg/kg dry | | 20.0 | BRL | 109 | 70-130 | | |
| 1,1-Dichloroethene | 25.5 | | µg/kg dry | | 20.0 | BRL | 128 | 70-130 | | |
| Toluene | 22.4 | | µg/kg dry | | 20.0 | BRL | 112 | 70-130 | | |
| Trichloroethene | 23.9 | | µg/kg dry | | 20.0 | BRL | 119 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *32.1* | | µg/kg dry | | *30.0* | | *107* | *70-130* | | |
| *Surrogate: Toluene-d8* | *30.5* | | µg/kg dry | | *30.0* | | *102* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *31.0* | | µg/kg dry | | *30.0* | | *103* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *30.0* | | µg/kg dry | | *30.0* | | *100* | *70-130* | | |
| **Matrix Spike Dup (9090222-MSD1)** | **Source: SB00047-08** | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| Benzene | 22.6 | | µg/kg dry | | 20.0 | BRL | 113 | 70-130 | 0.5 | 30 |
| Chlorobenzene | 22.8 | | µg/kg dry | | 20.0 | BRL | 114 | 70-130 | 4 | 30 |
| 1,1-Dichloroethene | 24.6 | | µg/kg dry | | 20.0 | BRL | 123 | 70-130 | 4 | 30 |
| Toluene | 22.3 | | µg/kg dry | | 20.0 | BRL | 111 | 70-130 | 0.7 | 30 |
| Trichloroethene | 23.4 | | µg/kg dry | | 20.0 | BRL | 117 | 70-130 | 2 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *32.2* | | µg/kg dry | | *30.0* | | *107* | *70-130* | | |
| *Surrogate: Toluene-d8* | *30.0* | | µg/kg dry | | *30.0* | | *100* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *29.4* | | µg/kg dry | | *30.0* | | *98* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *28.7* | | µg/kg dry | | *30.0* | | *96* | *70-130* | | |
| **Batch 9090223 - SW846 5030 Water MS** | | | | | | | | | | |
| **Blank (9090223-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/l | 1.0 | | | | | | |
| Acetone | BRL | | µg/l | 10.0 | | | | | | |
| Acrylonitrile | BRL | | µg/l | 0.5 | | | | | | |
| Benzene | BRL | | µg/l | 1.0 | | | | | | |
| Bromobenzene | BRL | | µg/l | 1.0 | | | | | | |
| Bromochloromethane | BRL | | µg/l | 1.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/l | 0.5 | | | | | | |
| Bromoform | BRL | | µg/l | 1.0 | | | | | | |
| Bromomethane | BRL | | µg/l | 2.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/l | 10.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| Carbon disulfide | BRL | | µg/l | 5.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/l | 1.0 | | | | | | |
| Chlorobenzene | BRL | | µg/l | 1.0 | | | | | | |
| Chloroethane | BRL | | µg/l | 2.0 | | | | | | |
| Chloroform | BRL | | µg/l | 1.0 | | | | | | |
| Chloromethane | BRL | | µg/l | 2.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/l | 1.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/l | 1.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/l | 2.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/l | 0.5 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/l | 0.5 | | | | | | |
| Dibromomethane | BRL | | µg/l | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/l | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/l | 1.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090223 - SW846 5030 Water MS** | | | | | | | | | | |
| **Blank (9090223-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/l | 1.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/l | 2.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/l | 1.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/l | 1.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/l | 1.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/l | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/l | 1.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/l | 1.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/l | 1.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/l | 1.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/l | 1.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/l | 0.5 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/l | 0.5 | | | | | | |
| Ethylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/l | 0.5 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/l | 10.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/l | 1.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/l | 1.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/l | 10.0 | | | | | | |
| Methylene chloride | BRL | | µg/l | 5.0 | | | | | | |
| Naphthalene | BRL | | µg/l | 1.0 | | | | | | |
| n-Propylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| Styrene | BRL | | µg/l | 1.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/l | 1.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/l | 0.5 | | | | | | |
| Tetrachloroethene | BRL | | µg/l | 1.0 | | | | | | |
| Toluene | BRL | | µg/l | 1.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/l | 1.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/l | 1.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/l | 1.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/l | 1.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/l | 1.0 | | | | | | |
| Trichloroethene | BRL | | µg/l | 1.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/l | 1.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/l | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/l | 1.0 | | | | | | |
| Vinyl chloride | BRL | | µg/l | 1.0 | | | | | | |
| m,p-Xylene | BRL | | µg/l | 2.0 | | | | | | |
| o-Xylene | BRL | | µg/l | 1.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/l | 10.0 | | | | | | |
| Ethyl ether | BRL | | µg/l | 1.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/l | 1.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/l | 1.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/l | 1.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/l | 10.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/l | 20.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | | µg/l | 5.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090223 - SW846 5030 Water MS** | | | | | | | | | | |
| **Blank (9090223-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| Ethanol | BRL | | µg/l | 400 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.2* | | µg/l | | *50.0* | | *98* | *70-130* | | |
| *Surrogate: Toluene-d8* | *50.1* | | µg/l | | *50.0* | | *100* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *50.8* | | µg/l | | *50.0* | | *102* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *51.9* | | µg/l | | *50.0* | | *104* | *70-130* | | |
| **LCS (9090223-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 23.4 | | µg/l | | 20.0 | | 117 | 70-130 | | |
| Acetone | 20.7 | | µg/l | | 20.0 | | 103 | 52.2-144 | | |
| Acrylonitrile | 22.2 | | µg/l | | 20.0 | | 111 | 70-130 | | |
| Benzene | 19.2 | | µg/l | | 20.0 | | 96 | 70-130 | | |
| Bromobenzene | 20.1 | | µg/l | | 20.0 | | 100 | 70-130 | | |
| Bromochloromethane | 20.8 | | µg/l | | 20.0 | | 104 | 70-130 | | |
| Bromodichloromethane | 21.5 | | µg/l | | 20.0 | | 108 | 70-130 | | |
| Bromoform | 25.4 | | µg/l | | 20.0 | | 127 | 70-130 | | |
| Bromomethane | 18.0 | | µg/l | | 20.0 | | 90 | 40-167 | | |
| 2-Butanone (MEK) | 22.2 | | µg/l | | 20.0 | | 111 | 57.7-141 | | |
| n-Butylbenzene | 17.9 | | µg/l | | 20.0 | | 90 | 70-130 | | |
| sec-Butylbenzene | 21.5 | | µg/l | | 20.0 | | 108 | 70-130 | | |
| tert-Butylbenzene | 21.9 | | µg/l | | 20.0 | | 109 | 70-130 | | |
| Carbon disulfide | 17.1 | | µg/l | | 20.0 | | 86 | 70-130 | | |
| Carbon tetrachloride | 23.5 | | µg/l | | 20.0 | | 117 | 70-130 | | |
| Chlorobenzene | 19.8 | | µg/l | | 20.0 | | 99 | 70-130 | | |
| Chloroethane | 18.5 | | µg/l | | 20.0 | | 92 | 65.1-130 | | |
| Chloroform | 19.0 | | µg/l | | 20.0 | | 95 | 70-130 | | |
| Chloromethane | 17.4 | | µg/l | | 20.0 | | 87 | 70-130 | | |
| 2-Chlorotoluene | 21.1 | | µg/l | | 20.0 | | 106 | 70-130 | | |
| 4-Chlorotoluene | 20.8 | | µg/l | | 20.0 | | 104 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 19.0 | | µg/l | | 20.0 | | 95 | 70-130 | | |
| Dibromochloromethane | 18.0 | | µg/l | | 20.0 | | 90 | 55.6-155 | | |
| 1,2-Dibromoethane (EDB) | 20.6 | | µg/l | | 20.0 | | 103 | 70-130 | | |
| Dibromomethane | 19.5 | | µg/l | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dichlorobenzene | 20.6 | | µg/l | | 20.0 | | 103 | 70-130 | | |
| 1,3-Dichlorobenzene | 20.4 | | µg/l | | 20.0 | | 102 | 70-130 | | |
| 1,4-Dichlorobenzene | 19.4 | | µg/l | | 20.0 | | 97 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 14.2 | | µg/l | | 20.0 | | 71 | 45.8-135 | | |
| 1,1-Dichloroethane | 18.8 | | µg/l | | 20.0 | | 94 | 70-130 | | |
| 1,2-Dichloroethane | 19.3 | | µg/l | | 20.0 | | 97 | 70-130 | | |
| 1,1-Dichloroethene | 19.8 | | µg/l | | 20.0 | | 99 | 70-130 | | |
| cis-1,2-Dichloroethene | 19.3 | | µg/l | | 20.0 | | 97 | 70-130 | | |
| trans-1,2-Dichloroethene | 17.9 | | µg/l | | 20.0 | | 89 | 70-130 | | |
| 1,2-Dichloropropane | 19.4 | | µg/l | | 20.0 | | 97 | 70-130 | | |
| 1,3-Dichloropropane | 20.0 | | µg/l | | 20.0 | | 100 | 70-130 | | |
| 2,2-Dichloropropane | 14.8 | | µg/l | | 20.0 | | 74 | 70-130 | | |
| 1,1-Dichloropropene | 19.8 | | µg/l | | 20.0 | | 99 | 70-130 | | |
| cis-1,3-Dichloropropene | 19.6 | | µg/l | | 20.0 | | 98 | 70-130 | | |
| trans-1,3-Dichloropropene | 19.4 | | µg/l | | 20.0 | | 97 | 70-130 | | |
| Ethylbenzene | 20.0 | | µg/l | | 20.0 | | 100 | 70-130 | | |
| Hexachlorobutadiene | 20.0 | | µg/l | | 20.0 | | 100 | 63.3-141 | | |
| 2-Hexanone (MBK) | 20.7 | | µg/l | | 20.0 | | 104 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090223 - SW846 5030 Water MS** | | | | | | | | | | |
| **LCS (9090223-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| Isopropylbenzene | 17.6 | | µg/l | | 20.0 | | 88 | 70-130 | | |
| 4-Isopropyltoluene | 21.3 | | µg/l | | 20.0 | | 106 | 70-130 | | |
| Methyl tert-butyl ether | 20.3 | | µg/l | | 20.0 | | 101 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 20.3 | | µg/l | | 20.0 | | 102 | 40-157 | | |
| Methylene chloride | 18.1 | | µg/l | | 20.0 | | 90 | 70-130 | | |
| Naphthalene | 17.9 | | µg/l | | 20.0 | | 90 | 70-130 | | |
| n-Propylbenzene | 20.7 | | µg/l | | 20.0 | | 103 | 70-130 | | |
| Styrene | 21.0 | | µg/l | | 20.0 | | 105 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 22.0 | | µg/l | | 20.0 | | 110 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 20.8 | | µg/l | | 20.0 | | 104 | 70-130 | | |
| Tetrachloroethene | 19.9 | | µg/l | | 20.0 | | 99 | 70-130 | | |
| Toluene | 19.1 | | µg/l | | 20.0 | | 96 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 22.4 | | µg/l | | 20.0 | | 112 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 20.2 | | µg/l | | 20.0 | | 101 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 19.8 | | µg/l | | 20.0 | | 99 | 70-130 | | |
| 1,1,1-Trichloroethane | 20.6 | | µg/l | | 20.0 | | 103 | 70-130 | | |
| 1,1,2-Trichloroethane | 20.3 | | µg/l | | 20.0 | | 102 | 70-130 | | |
| Trichloroethene | 19.4 | | µg/l | | 20.0 | | 97 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 20.3 | | µg/l | | 20.0 | | 102 | 61.9-167 | | |
| 1,2,3-Trichloropropane | 22.2 | | µg/l | | 20.0 | | 111 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 18.9 | | µg/l | | 20.0 | | 94 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 18.8 | | µg/l | | 20.0 | | 94 | 70-130 | | |
| Vinyl chloride | 19.0 | | µg/l | | 20.0 | | 95 | 70-130 | | |
| m,p-Xylene | 38.1 | | µg/l | | 40.0 | | 95 | 70-130 | | |
| o-Xylene | 21.6 | | µg/l | | 20.0 | | 108 | 70-130 | | |
| Tetrahydrofuran | 22.8 | | µg/l | | 20.0 | | 114 | 70-130 | | |
| Ethyl ether | 20.2 | | µg/l | | 20.0 | | 101 | 70-133 | | |
| Tert-amyl methyl ether | 21.2 | | µg/l | | 20.0 | | 106 | 70-130 | | |
| Ethyl tert-butyl ether | 20.9 | | µg/l | | 20.0 | | 104 | 70-130 | | |
| Di-isopropyl ether | 18.2 | | µg/l | | 20.0 | | 91 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 208 | | µg/l | | 200 | | 104 | 70-130 | | |
| 1,4-Dioxane | 242 | | µg/l | | 200 | | 121 | 50.6-156 | | |
| trans-1,4-Dichloro-2-butene | 15.8 | | µg/l | | 20.0 | | 79 | 70-130 | | |
| Ethanol | 398 | | µg/l | | 400 | | 100 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *51.4* | | µg/l | | *50.0* | | *103* | *70-130* | | |
| *Surrogate: Toluene-d8* | *50.3* | | µg/l | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *51.9* | | µg/l | | *50.0* | | *104* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *52.8* | | µg/l | | *50.0* | | *106* | *70-130* | | |
| **LCS Dup (9090223-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 21.2 | | µg/l | | 20.0 | | 106 | 70-130 | 10 | 25 |
| Acetone | 21.9 | | µg/l | | 20.0 | | 110 | 52.2-144 | 6 | 50 |
| Acrylonitrile | 22.2 | | µg/l | | 20.0 | | 111 | 70-130 | 0.05 | 25 |
| Benzene | 18.5 | | µg/l | | 20.0 | | 92 | 70-130 | 4 | 25 |
| Bromobenzene | 18.5 | | µg/l | | 20.0 | | 93 | 70-130 | 8 | 25 |
| Bromochloromethane | 20.0 | | µg/l | | 20.0 | | 100 | 70-130 | 4 | 25 |
| Bromodichloromethane | 20.9 | | µg/l | | 20.0 | | 105 | 70-130 | 3 | 25 |
| Bromoform | 24.3 | | µg/l | | 20.0 | | 122 | 70-130 | 4 | 25 |
| Bromomethane | 17.4 | | µg/l | | 20.0 | | 87 | 40-167 | 3 | 50 |
| 2-Butanone (MEK) | 23.3 | | µg/l | | 20.0 | | 117 | 57.7-141 | 5 | 50 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090223 - SW846 5030 Water MS** | | | | | | | | | | |
| **LCS Dup (9090223-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| n-Butylbenzene | 17.4 | | µg/l | | 20.0 | | 87 | 70-130 | 3 | 25 |
| sec-Butylbenzene | 19.9 | | µg/l | | 20.0 | | 100 | 70-130 | 8 | 25 |
| tert-Butylbenzene | 20.1 | | µg/l | | 20.0 | | 100 | 70-130 | 9 | 25 |
| Carbon disulfide | 16.0 | | µg/l | | 20.0 | | 80 | 70-130 | 7 | 25 |
| Carbon tetrachloride | 21.7 | | µg/l | | 20.0 | | 108 | 70-130 | 8 | 25 |
| Chlorobenzene | 18.5 | | µg/l | | 20.0 | | 92 | 70-130 | 7 | 25 |
| Chloroethane | 17.2 | | µg/l | | 20.0 | | 86 | 65.1-130 | 7 | 50 |
| Chloroform | 18.0 | | µg/l | | 20.0 | | 90 | 70-130 | 5 | 25 |
| Chloromethane | 16.9 | | µg/l | | 20.0 | | 84 | 70-130 | 3 | 25 |
| 2-Chlorotoluene | 19.6 | | µg/l | | 20.0 | | 98 | 70-130 | 7 | 25 |
| 4-Chlorotoluene | 19.3 | | µg/l | | 20.0 | | 96 | 70-130 | 8 | 25 |
| 1,2-Dibromo-3-chloropropane | 20.3 | | µg/l | | 20.0 | | 102 | 70-130 | 6 | 25 |
| Dibromochloromethane | 17.3 | | µg/l | | 20.0 | | 87 | 55.6-155 | 4 | 50 |
| 1,2-Dibromoethane (EDB) | 19.8 | | µg/l | | 20.0 | | 99 | 70-130 | 4 | 25 |
| Dibromomethane | 18.8 | | µg/l | | 20.0 | | 94 | 70-130 | 4 | 25 |
| 1,2-Dichlorobenzene | 19.8 | | µg/l | | 20.0 | | 99 | 70-130 | 4 | 25 |
| 1,3-Dichlorobenzene | 18.6 | | µg/l | | 20.0 | | 93 | 70-130 | 9 | 25 |
| 1,4-Dichlorobenzene | 18.4 | | µg/l | | 20.0 | | 92 | 70-130 | 5 | 25 |
| Dichlorodifluoromethane (Freon12) | 15.0 | | µg/l | | 20.0 | | 75 | 45.8-135 | 6 | 50 |
| 1,1-Dichloroethane | 18.4 | | µg/l | | 20.0 | | 92 | 70-130 | 2 | 25 |
| 1,2-Dichloroethane | 19.0 | | µg/l | | 20.0 | | 95 | 70-130 | 2 | 25 |
| 1,1-Dichloroethene | 18.0 | | µg/l | | 20.0 | | 90 | 70-130 | 9 | 25 |
| cis-1,2-Dichloroethene | 18.2 | | µg/l | | 20.0 | | 91 | 70-130 | 6 | 25 |
| trans-1,2-Dichloroethene | 16.8 | | µg/l | | 20.0 | | 84 | 70-130 | 6 | 25 |
| 1,2-Dichloropropane | 19.2 | | µg/l | | 20.0 | | 96 | 70-130 | 0.9 | 25 |
| 1,3-Dichloropropane | 19.6 | | µg/l | | 20.0 | | 98 | 70-130 | 2 | 25 |
| 2,2-Dichloropropane | 13.0 | QM9 | µg/l | | 20.0 | | 65 | 70-130 | 12 | 25 |
| 1,1-Dichloropropene | 19.0 | | µg/l | | 20.0 | | 95 | 70-130 | 5 | 25 |
| cis-1,3-Dichloropropene | 19.2 | | µg/l | | 20.0 | | 96 | 70-130 | 2 | 25 |
| trans-1,3-Dichloropropene | 19.2 | | µg/l | | 20.0 | | 96 | 70-130 | 1 | 25 |
| Ethylbenzene | 18.8 | | µg/l | | 20.0 | | 94 | 70-130 | 6 | 25 |
| Hexachlorobutadiene | 17.6 | | µg/l | | 20.0 | | 88 | 63.3-141 | 12 | 50 |
| 2-Hexanone (MBK) | 21.7 | | µg/l | | 20.0 | | 108 | 70-130 | 5 | 25 |
| Isopropylbenzene | 16.3 | | µg/l | | 20.0 | | 81 | 70-130 | 8 | 25 |
| 4-Isopropyltoluene | 20.2 | | µg/l | | 20.0 | | 101 | 70-130 | 5 | 25 |
| Methyl tert-butyl ether | 19.9 | | µg/l | | 20.0 | | 99 | 70-130 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 21.6 | | µg/l | | 20.0 | | 108 | 40-157 | 6 | 50 |
| Methylene chloride | 17.4 | | µg/l | | 20.0 | | 87 | 70-130 | 4 | 25 |
| Naphthalene | 17.4 | | µg/l | | 20.0 | | 87 | 70-130 | 3 | 25 |
| n-Propylbenzene | 19.2 | | µg/l | | 20.0 | | 96 | 70-130 | 8 | 25 |
| Styrene | 19.7 | | µg/l | | 20.0 | | 99 | 70-130 | 6 | 25 |
| 1,1,1,2-Tetrachloroethane | 20.8 | | µg/l | | 20.0 | | 104 | 70-130 | 5 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.2 | | µg/l | | 20.0 | | 101 | 70-130 | 3 | 25 |
| Tetrachloroethene | 17.8 | | µg/l | | 20.0 | | 89 | 70-130 | 11 | 25 |
| Toluene | 18.2 | | µg/l | | 20.0 | | 91 | 70-130 | 5 | 25 |
| 1,2,3-Trichlorobenzene | 20.8 | | µg/l | | 20.0 | | 104 | 70-130 | 7 | 25 |
| 1,2,4-Trichlorobenzene | 18.6 | | µg/l | | 20.0 | | 93 | 70-130 | 8 | 25 |
| 1,3,5-Trichlorobenzene | 18.6 | | µg/l | | 20.0 | | 93 | 70-130 | 6 | 25 |
| 1,1,1-Trichloroethane | 18.9 | | µg/l | | 20.0 | | 94 | 70-130 | 9 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090223 - SW846 5030 Water MS** | | | | | | | | | | |
| **LCS Dup (9090223-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 03-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichloroethane | 20.0 | | µg/l | | 20.0 | | 100 | 70-130 | 2 | 25 |
| Trichloroethene | 18.8 | | µg/l | | 20.0 | | 94 | 70-130 | 3 | 25 |
| Trichlorofluoromethane (Freon 11) | 19.2 | | µg/l | | 20.0 | | 96 | 61.9-167 | 6 | 50 |
| 1,2,3-Trichloropropane | 21.8 | | µg/l | | 20.0 | | 109 | 70-130 | 2 | 25 |
| 1,2,4-Trimethylbenzene | 17.2 | | µg/l | | 20.0 | | 86 | 70-130 | 9 | 25 |
| 1,3,5-Trimethylbenzene | 17.5 | | µg/l | | 20.0 | | 87 | 70-130 | 7 | 25 |
| Vinyl chloride | 19.1 | | µg/l | | 20.0 | | 96 | 70-130 | 0.8 | 25 |
| m,p-Xylene | 35.1 | | µg/l | | 40.0 | | 88 | 70-130 | 8 | 25 |
| o-Xylene | 20.3 | | µg/l | | 20.0 | | 102 | 70-130 | 6 | 25 |
| Tetrahydrofuran | 22.1 | | µg/l | | 20.0 | | 110 | 70-130 | 3 | 25 |
| Ethyl ether | 19.7 | | µg/l | | 20.0 | | 99 | 70-133 | 2 | 50 |
| Tert-amyl methyl ether | 21.6 | | µg/l | | 20.0 | | 108 | 70-130 | 2 | 25 |
| Ethyl tert-butyl ether | 19.5 | | µg/l | | 20.0 | | 97 | 70-130 | 7 | 25 |
| Di-isopropyl ether | 18.3 | | µg/l | | 20.0 | | 92 | 70-130 | 0.9 | 25 |
| Tert-Butanol / butyl alcohol | 208 | | µg/l | | 200 | | 104 | 70-130 | 0.1 | 25 |
| 1,4-Dioxane | 245 | | µg/l | | 200 | | 122 | 50.6-156 | 0.9 | 25 |
| trans-1,4-Dichloro-2-butene | 16.2 | | µg/l | | 20.0 | | 81 | 70-130 | 2 | 25 |
| Ethanol | 417 | | µg/l | | 400 | | 104 | 70-130 | 5 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *50.6* | | µg/l | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | *49.6* | | µg/l | | *50.0* | | *99* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *50.0* | | µg/l | | *50.0* | | *100* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *50.2* | | µg/l | | *50.0* | | *100* | *70-130* | | |
| **Batch 9090327 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090327-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 5.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 50.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 5.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 25.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 5.0 | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 5.0 | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 10.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 5.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090327 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090327-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 50.0 | | | | | | |
| Naphthalene | BRL | | µg/kg wet | 5.0 | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Styrene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 5.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 10.0 | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 50.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090327 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090327-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 50.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 100 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | | µg/kg wet | 25.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 2000 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *46.4* | | µg/kg wet | | *50.0* | | *93* | *70-130* | | |
| *Surrogate: Toluene-d8* | *52.7* | | µg/kg wet | | *50.0* | | *105* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *59.0* | | µg/kg wet | | *50.0* | | *118* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *54.7* | | µg/kg wet | | *50.0* | | *109* | *70-130* | | |
| **LCS (9090327-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Acetone | 11.7 | | µg/kg wet | | 20.0 | | 58 | 40-136 | | |
| Acrylonitrile | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Benzene | 15.8 | | µg/kg wet | | 20.0 | | 79 | 70-130 | | |
| Bromobenzene | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Bromochloromethane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Bromodichloromethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Bromoform | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Bromomethane | 14.4 | | µg/kg wet | | 20.0 | | 72 | 61-151 | | |
| 2-Butanone (MEK) | 19.0 | | µg/kg wet | | 20.0 | | 95 | 61.5-132 | | |
| n-Butylbenzene | 14.1 | | µg/kg wet | | 20.0 | | 70 | 70-130 | | |
| sec-Butylbenzene | 15.0 | | µg/kg wet | | 20.0 | | 75 | 70-130 | | |
| tert-Butylbenzene | 15.0 | | µg/kg wet | | 20.0 | | 75 | 70-130 | | |
| Carbon disulfide | 12.9 | QM9 | µg/kg wet | | 20.0 | | 65 | 70-130 | | |
| Carbon tetrachloride | 15.8 | | µg/kg wet | | 20.0 | | 79 | 70-130 | | |
| Chlorobenzene | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| Chloroethane | 13.2 | | µg/kg wet | | 20.0 | | 66 | 66-130 | | |
| Chloroform | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| Chloromethane | 12.2 | QM9 | µg/kg wet | | 20.0 | | 61 | 70-130 | | |
| 2-Chlorotoluene | 16.3 | | µg/kg wet | | 20.0 | | 81 | 70-130 | | |
| 4-Chlorotoluene | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 15.8 | | µg/kg wet | | 20.0 | | 79 | 70-130 | | |
| Dibromochloromethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | | |
| Dibromomethane | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| 1,2-Dichlorobenzene | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| 1,3-Dichlorobenzene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,4-Dichlorobenzene | 16.5 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 12.0 | | µg/kg wet | | 20.0 | | 60 | 51.9-130 | | |
| 1,1-Dichloroethane | 15.0 | | µg/kg wet | | 20.0 | | 75 | 70-130 | | |
| 1,2-Dichloroethane | 18.5 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,1-Dichloroethene | 15.0 | | µg/kg wet | | 20.0 | | 75 | 70-130 | | |
| cis-1,2-Dichloroethene | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| trans-1,2-Dichloroethene | 14.8 | | µg/kg wet | | 20.0 | | 74 | 70-130 | | |
| 1,2-Dichloropropane | 16.2 | | µg/kg wet | | 20.0 | | 81 | 70-130 | | |
| 1,3-Dichloropropane | 19.3 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| 2,2-Dichloropropane | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| 1,1-Dichloropropene | 14.9 | | µg/kg wet | | 20.0 | | 74 | 70-130 | | |
| cis-1,3-Dichloropropene | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| trans-1,3-Dichloropropene | 17.5 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090327 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS (9090327-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Ethylbenzene | 15.5 | | µg/kg wet | | 20.0 | | 78 | 70-130 | | |
| Hexachlorobutadiene | 15.0 | | µg/kg wet | | 20.0 | | 75 | 70-133 | | |
| 2-Hexanone (MBK) | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Isopropylbenzene | 12.7 | QM9 | µg/kg wet | | 20.0 | | 64 | 70-130 | | |
| 4-Isopropyltoluene | 14.9 | | µg/kg wet | | 20.0 | | 74 | 70-130 | | |
| Methyl tert-butyl ether | 19.1 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 19.8 | | µg/kg wet | | 20.0 | | 99 | 50.3-133 | | |
| Methylene chloride | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| Naphthalene | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| n-Propylbenzene | 13.8 | QM9 | µg/kg wet | | 20.0 | | 69 | 70-130 | | |
| Styrene | 14.4 | | µg/kg wet | | 20.0 | | 72 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| Tetrachloroethene | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| Toluene | 16.3 | | µg/kg wet | | 20.0 | | 81 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 17.9 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 16.5 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| 1,1,1-Trichloroethane | 15.3 | | µg/kg wet | | 20.0 | | 77 | 70-130 | | |
| 1,1,2-Trichloroethane | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Trichloroethene | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 15.8 | | µg/kg wet | | 20.0 | | 79 | 70-147 | | |
| 1,2,3-Trichloropropane | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 14.6 | | µg/kg wet | | 20.0 | | 73 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 14.6 | | µg/kg wet | | 20.0 | | 73 | 70-130 | | |
| Vinyl chloride | 12.6 | QM9 | µg/kg wet | | 20.0 | | 63 | 70-130 | | |
| m,p-Xylene | 32.2 | | µg/kg wet | | 40.0 | | 81 | 70-130 | | |
| o-Xylene | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| Tetrahydrofuran | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Ethyl ether | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| Tert-amyl methyl ether | 18.1 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Ethyl tert-butyl ether | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Di-isopropyl ether | 15.3 | | µg/kg wet | | 20.0 | | 76 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 217 | | µg/kg wet | | 200 | | 108 | 70-130 | | |
| 1,4-Dioxane | 153 | | µg/kg wet | | 200 | | 76 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Ethanol | 303 | | µg/kg wet | | 400 | | 76 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.3* | | µg/kg wet | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | *52.5* | | µg/kg wet | | *50.0* | | *105* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *50.1* | | µg/kg wet | | *50.0* | | *100* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *52.2* | | µg/kg wet | | *50.0* | | *104* | *70-130* | | |
| **LCS Dup (9090327-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 24.6 | QR2 | µg/kg wet | | 20.0 | | 123 | 70-130 | 34 | 25 |
| Acetone | 12.4 | | µg/kg wet | | 20.0 | | 62 | 40-136 | 6 | 50 |
| Acrylonitrile | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 8 | 25 |
| Benzene | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 25 | 25 |
| Bromobenzene | 22.5 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 25 | 25 |
| Bromochloromethane | 22.7 | | µg/kg wet | | 20.0 | | 113 | 70-130 | 10 | 25 |
| Bromodichloromethane | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 17 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090327 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS Dup (9090327-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Bromoform | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 14 | 25 |
| Bromomethane | 19.5 | | µg/kg wet | | 20.0 | | 97 | 61-151 | 30 | 50 |
| 2-Butanone (MEK) | 18.5 | | µg/kg wet | | 20.0 | | 93 | 61.5-132 | 3 | 50 |
| n-Butylbenzene | 18.4 | QR2 | µg/kg wet | | 20.0 | | 92 | 70-130 | 27 | 25 |
| sec-Butylbenzene | 21.2 | QR2 | µg/kg wet | | 20.0 | | 106 | 70-130 | 35 | 25 |
| tert-Butylbenzene | 21.3 | QR2 | µg/kg wet | | 20.0 | | 106 | 70-130 | 35 | 25 |
| Carbon disulfide | 18.6 | QR5 | µg/kg wet | | 20.0 | | 93 | 70-130 | 36 | 25 |
| Carbon tetrachloride | 21.6 | QR2 | µg/kg wet | | 20.0 | | 108 | 70-130 | 31 | 25 |
| Chlorobenzene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 25 | 25 |
| Chloroethane | 18.4 | | µg/kg wet | | 20.0 | | 92 | 66-130 | 32 | 50 |
| Chloroform | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 23 | 25 |
| Chloromethane | 17.3 | QR5 | µg/kg wet | | 20.0 | | 86 | 70-130 | 35 | 25 |
| 2-Chlorotoluene | 22.0 | QR2 | µg/kg wet | | 20.0 | | 110 | 70-130 | 30 | 25 |
| 4-Chlorotoluene | 22.0 | QR2 | µg/kg wet | | 20.0 | | 110 | 70-130 | 29 | 25 |
| 1,2-Dibromo-3-chloropropane | 17.3 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 9 | 25 |
| Dibromochloromethane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 64.6-130 | 13 | 50 |
| 1,2-Dibromoethane (EDB) | 23.3 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 6 | 25 |
| Dibromomethane | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 9 | 25 |
| 1,2-Dichlorobenzene | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 16 | 25 |
| 1,3-Dichlorobenzene | 24.0 | | µg/kg wet | | 20.0 | | 120 | 70-130 | 25 | 25 |
| 1,4-Dichlorobenzene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 18 | 25 |
| Dichlorodifluoromethane (Freon12) | 17.2 | | µg/kg wet | | 20.0 | | 86 | 51.9-130 | 35 | 50 |
| 1,1-Dichloroethane | 19.6 | QR2 | µg/kg wet | | 20.0 | | 98 | 70-130 | 26 | 25 |
| 1,2-Dichloroethane | 21.5 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 15 | 25 |
| 1,1-Dichloroethene | 21.1 | QR2 | µg/kg wet | | 20.0 | | 105 | 70-130 | 34 | 25 |
| cis-1,2-Dichloroethene | 22.5 | | µg/kg wet | | 20.0 | | 113 | 70-130 | 24 | 25 |
| trans-1,2-Dichloroethene | 20.1 | QR2 | µg/kg wet | | 20.0 | | 101 | 70-130 | 30 | 25 |
| 1,2-Dichloropropane | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 21 | 25 |
| 1,3-Dichloropropane | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 11 | 25 |
| 2,2-Dichloropropane | 22.0 | QR2 | µg/kg wet | | 20.0 | | 110 | 70-130 | 29 | 25 |
| 1,1-Dichloropropene | 20.8 | QR2 | µg/kg wet | | 20.0 | | 104 | 70-130 | 33 | 25 |
| cis-1,3-Dichloropropene | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 14 | 25 |
| trans-1,3-Dichloropropene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 11 | 25 |
| Ethylbenzene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 24 | 25 |
| Hexachlorobutadiene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-133 | 26 | 50 |
| 2-Hexanone (MBK) | 19.5 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 4 | 25 |
| Isopropylbenzene | 17.9 | QR5 | µg/kg wet | | 20.0 | | 90 | 70-130 | 34 | 25 |
| 4-Isopropyltoluene | 20.0 | QR2 | µg/kg wet | | 20.0 | | 100 | 70-130 | 30 | 25 |
| Methyl tert-butyl ether | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 9 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.3 | | µg/kg wet | | 20.0 | | 101 | 50.3-133 | 2 | 50 |
| Methylene chloride | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 20 | 25 |
| Naphthalene | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 3 | 25 |
| n-Propylbenzene | 19.9 | QR5 | µg/kg wet | | 20.0 | | 99 | 70-130 | 36 | 25 |
| Styrene | 18.8 | QR2 | µg/kg wet | | 20.0 | | 94 | 70-130 | 27 | 25 |
| 1,1,1,2-Tetrachloroethane | 20.9 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 22 | 25 |
| 1,1,2,2-Tetrachloroethane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 14 | 25 |
| Tetrachloroethene | 22.9 | QR2 | µg/kg wet | | 20.0 | | 114 | 70-130 | 30 | 25 |
| Toluene | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 24 | 25 |
| 1,2,3-Trichlorobenzene | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 9 | 25 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090327 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS Dup (9090327-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | 11 | 25 |
| 1,3,5-Trichlorobenzene | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 19 | 25 |
| 1,1,1-Trichloroethane | 20.9 | QR2 | µg/kg wet | | 20.0 | | 104 | 70-130 | 31 | 25 |
| 1,1,2-Trichloroethane | 22.6 | | µg/kg wet | | 20.0 | | 113 | 70-130 | 11 | 25 |
| Trichloroethene | 21.5 | QR2 | µg/kg wet | | 20.0 | | 108 | 70-130 | 27 | 25 |
| Trichlorofluoromethane (Freon 11) | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-147 | 34 | 50 |
| 1,2,3-Trichloropropane | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | 13 | 25 |
| 1,2,4-Trimethylbenzene | 19.5 | QR2 | µg/kg wet | | 20.0 | | 97 | 70-130 | 28 | 25 |
| 1,3,5-Trimethylbenzene | 20.4 | QR2 | µg/kg wet | | 20.0 | | 102 | 70-130 | 33 | 25 |
| Vinyl chloride | 18.6 | QR5 | µg/kg wet | | 20.0 | | 93 | 70-130 | 38 | 25 |
| m,p-Xylene | 44.3 | QR2 | µg/kg wet | | 40.0 | | 111 | 70-130 | 31 | 25 |
| o-Xylene | 22.5 | QR2 | µg/kg wet | | 20.0 | | 113 | 70-130 | 29 | 25 |
| Tetrahydrofuran | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 3 | 25 |
| Ethyl ether | 22.1 | | µg/kg wet | | 20.0 | | 111 | 70-130 | 15 | 50 |
| Tert-amyl methyl ether | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 8 | 25 |
| Ethyl tert-butyl ether | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 11 | 25 |
| Di-isopropyl ether | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 14 | 25 |
| Tert-Butanol / butyl alcohol | 209 | | µg/kg wet | | 200 | | 104 | 70-130 | 4 | 25 |
| 1,4-Dioxane | 205 | QR2 | µg/kg wet | | 200 | | 102 | 60-146 | 29 | 25 |
| trans-1,4-Dichloro-2-butene | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 4 | 25 |
| Ethanol | 308 | | µg/kg wet | | 400 | | 77 | 70-130 | 1 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *53.5* | | µg/kg wet | | *50.0* | | *107* | *70-130* | | |
| *Surrogate: Toluene-d8* | *52.7* | | 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* | *53.2* | | µg/kg wet | | *50.0* | | *106* | *70-130* | | |
| **Batch 9090329 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090329-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 10.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 1.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 1.0 | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 2.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 1.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090329 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090329-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 2.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 2.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 10.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 10.0 | | | | | | |
| Naphthalene | BRL | CAL1 | µg/kg wet | 1.0 | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Styrene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 1.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 2.0 | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 10.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090329 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **Blank (9090329-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 1.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 20.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | CAL1 | µg/kg wet | 5.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 400 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *29.3* | | µg/kg wet | | *30.0* | | *98* | *70-130* | | |
| *Surrogate: Toluene-d8* | *29.7* | | µg/kg wet | | *30.0* | | *99* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *29.9* | | µg/kg wet | | *30.0* | | *100* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | µg/kg wet | | *30.0* | | *88* | *70-130* | | |
| **LCS (9090329-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 22.5 | | µg/kg wet | | 20.0 | | 113 | 70-130 | | |
| Acetone | 25.0 | | µg/kg wet | | 20.0 | | 125 | 40-136 | | |
| Acrylonitrile | 23.0 | | µg/kg wet | | 20.0 | | 115 | 70-130 | | |
| Benzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Bromobenzene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Bromochloromethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Bromodichloromethane | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| Bromoform | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| Bromomethane | 19.5 | | µg/kg wet | | 20.0 | | 97 | 61-151 | | |
| 2-Butanone (MEK) | 24.7 | | µg/kg wet | | 20.0 | | 124 | 61.5-132 | | |
| n-Butylbenzene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| sec-Butylbenzene | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| tert-Butylbenzene | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Carbon disulfide | 17.2 | | µg/kg wet | | 20.0 | | 86 | 70-130 | | |
| Carbon tetrachloride | 16.3 | | µg/kg wet | | 20.0 | | 81 | 70-130 | | |
| Chlorobenzene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Chloroethane | 19.7 | | µg/kg wet | | 20.0 | | 99 | 66-130 | | |
| Chloroform | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| Chloromethane | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| 2-Chlorotoluene | 19.9 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 4-Chlorotoluene | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| Dibromochloromethane | 16.1 | | µg/kg wet | | 20.0 | | 80 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 23.0 | | µg/kg wet | | 20.0 | | 115 | 70-130 | | |
| Dibromomethane | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| 1,2-Dichlorobenzene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 1,3-Dichlorobenzene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| 1,4-Dichlorobenzene | 18.9 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 17.8 | | µg/kg wet | | 20.0 | | 89 | 51.9-130 | | |
| 1,1-Dichloroethane | 23.0 | | µg/kg wet | | 20.0 | | 115 | 70-130 | | |
| 1,2-Dichloroethane | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| 1,1-Dichloroethene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| cis-1,2-Dichloroethene | 20.5 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| trans-1,2-Dichloroethene | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dichloropropane | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| 1,3-Dichloropropane | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| 2,2-Dichloropropane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090329 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS (9090329-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,1-Dichloropropene | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| cis-1,3-Dichloropropene | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| trans-1,3-Dichloropropene | 17.7 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| Ethylbenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Hexachlorobutadiene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-133 | | |
| 2-Hexanone (MBK) | 23.4 | | µg/kg wet | | 20.0 | | 117 | 70-130 | | |
| Isopropylbenzene | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| 4-Isopropyltoluene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| Methyl tert-butyl ether | 26.9 | QC2 | µg/kg wet | | 20.0 | | 134 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 23.0 | | µg/kg wet | | 20.0 | | 115 | 50.3-133 | | |
| Methylene chloride | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Naphthalene | 21.0 | CAL1 | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| n-Propylbenzene | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| Styrene | 20.9 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 16.7 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 23.6 | | µg/kg wet | | 20.0 | | 118 | 70-130 | | |
| Tetrachloroethene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Toluene | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 17.5 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| 1,1,1-Trichloroethane | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| 1,1,2-Trichloroethane | 22.4 | | µg/kg wet | | 20.0 | | 112 | 70-130 | | |
| Trichloroethene | 19.3 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 20.9 | | µg/kg wet | | 20.0 | | 104 | 70-147 | | |
| 1,2,3-Trichloropropane | 25.4 | | µg/kg wet | | 20.0 | | 127 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Vinyl chloride | 16.2 | | µg/kg wet | | 20.0 | | 81 | 70-130 | | |
| m,p-Xylene | 37.1 | | µg/kg wet | | 40.0 | | 93 | 70-130 | | |
| o-Xylene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Tetrahydrofuran | 25.8 | | µg/kg wet | | 20.0 | | 129 | 70-130 | | |
| Ethyl ether | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Tert-amyl methyl ether | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| Ethyl tert-butyl ether | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Di-isopropyl ether | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 229 | | µg/kg wet | | 200 | | 115 | 70-130 | | |
| 1,4-Dioxane | 240 | | µg/kg wet | | 200 | | 120 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 24.0 | CAL1 | µg/kg wet | | 20.0 | | 120 | 70-130 | | |
| Ethanol | 498 | | µg/kg wet | | 400 | | 124 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *30.4* | | µg/kg wet | | *30.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | *30.0* | | µg/kg wet | | *30.0* | | *100* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *30.9* | | µg/kg wet | | *30.0* | | *103* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *30.6* | | µg/kg wet | | *30.0* | | *102* | *70-130* | | |
| **LCS Dup (9090329-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 24.9 | | µg/kg wet | | 20.0 | | 124 | 70-130 | 10 | 25 |
| Acetone | 23.1 | | µg/kg wet | | 20.0 | | 116 | 40-136 | 8 | 50 |
| Acrylonitrile | 22.1 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 4 | 25 |
| Benzene | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 2 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090329 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS Dup (9090329-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Bromobenzene | 20.5 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 8 | 25 |
| Bromochloromethane | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 2 | 25 |
| Bromodichloromethane | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 2 | 25 |
| Bromoform | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 6 | 25 |
| Bromomethane | 18.5 | | µg/kg wet | | 20.0 | | 92 | 61-151 | 5 | 50 |
| 2-Butanone (MEK) | 24.7 | | µg/kg wet | | 20.0 | | 124 | 61.5-132 | 0.04 | 50 |
| n-Butylbenzene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 2 | 25 |
| sec-Butylbenzene | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 6 | 25 |
| tert-Butylbenzene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 8 | 25 |
| Carbon disulfide | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 7 | 25 |
| Carbon tetrachloride | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | 3 | 25 |
| Chlorobenzene | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 7 | 25 |
| Chloroethane | 20.3 | | µg/kg wet | | 20.0 | | 101 | 66-130 | 3 | 50 |
| Chloroform | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 0.9 | 25 |
| Chloromethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 3 | 25 |
| 2-Chlorotoluene | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 6 | 25 |
| 4-Chlorotoluene | 20.7 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 6 | 25 |
| 1,2-Dibromo-3-chloropropane | 17.3 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 5 | 25 |
| Dibromochloromethane | 16.8 | | µg/kg wet | | 20.0 | | 84 | 64.6-130 | 4 | 50 |
| 1,2-Dibromoethane (EDB) | 22.6 | | µg/kg wet | | 20.0 | | 113 | 70-130 | 1 | 25 |
| Dibromomethane | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 0.6 | 25 |
| 1,2-Dichlorobenzene | 20.3 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 3 | 25 |
| 1,3-Dichlorobenzene | 20.7 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 6 | 25 |
| 1,4-Dichlorobenzene | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 4 | 25 |
| Dichlorodifluoromethane (Freon12) | 20.1 | | µg/kg wet | | 20.0 | | 100 | 51.9-130 | 12 | 50 |
| 1,1-Dichloroethane | 26.6 | QM9 | µg/kg wet | | 20.0 | | 133 | 70-130 | 15 | 25 |
| 1,2-Dichloroethane | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 0.3 | 25 |
| 1,1-Dichloroethene | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 2 | 25 |
| cis-1,2-Dichloroethene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 3 | 25 |
| trans-1,2-Dichloroethene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 5 | 25 |
| 1,2-Dichloropropane | 20.3 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 1 | 25 |
| 1,3-Dichloropropane | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 3 | 25 |
| 2,2-Dichloropropane | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 2 | 25 |
| 1,1-Dichloropropene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 5 | 25 |
| cis-1,3-Dichloropropene | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 0.05 | 25 |
| trans-1,3-Dichloropropene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 2 | 25 |
| Ethylbenzene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 7 | 25 |
| Hexachlorobutadiene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-133 | 7 | 50 |
| 2-Hexanone (MBK) | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 12 | 25 |
| Isopropylbenzene | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 8 | 25 |
| 4-Isopropyltoluene | 21.6 | | µg/kg wet | | 20.0 | | 108 | 70-130 | 3 | 25 |
| Methyl tert-butyl ether | 27.4 | QC2 | µg/kg wet | | 20.0 | | 137 | 70-130 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.9 | | µg/kg wet | | 20.0 | | 105 | 50.3-133 | 9 | 50 |
| Methylene chloride | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 2 | 25 |
| Naphthalene | 20.4 | CAL1 | µg/kg wet | | 20.0 | | 102 | 70-130 | 3 | 25 |
| n-Propylbenzene | 21.1 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 7 | 25 |
| Styrene | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-130 | 6 | 25 |
| 1,1,1,2-Tetrachloroethane | 17.3 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 3 | 25 |
| 1,1,2,2-Tetrachloroethane | 23.3 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 1 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090329 - SW846 5030 Soil (high level)** | | | | | | | | | | |
| **LCS Dup (9090329-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Tetrachloroethene | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 6 | 25 |
| Toluene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 2 | 25 |
| 1,2,3-Trichlorobenzene | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 4 | 25 |
| 1,2,4-Trichlorobenzene | 17.7 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 6 | 25 |
| 1,3,5-Trichlorobenzene | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 5 | 25 |
| 1,1,1-Trichloroethane | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | 2 | 25 |
| 1,1,2-Trichloroethane | 22.5 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 0.4 | 25 |
| Trichloroethene | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 3 | 25 |
| Trichlorofluoromethane (Freon 11) | 22.1 | | µg/kg wet | | 20.0 | | 110 | 70-147 | 6 | 50 |
| 1,2,3-Trichloropropane | 25.1 | | µg/kg wet | | 20.0 | | 126 | 70-130 | 0.9 | 25 |
| 1,2,4-Trimethylbenzene | 21.5 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 5 | 25 |
| 1,3,5-Trimethylbenzene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 7 | 25 |
| Vinyl chloride | 16.2 | | µg/kg wet | | 20.0 | | 81 | 70-130 | 0.1 | 25 |
| m,p-Xylene | 40.9 | | µg/kg wet | | 40.0 | | 102 | 70-130 | 10 | 25 |
| o-Xylene | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 7 | 25 |
| Tetrahydrofuran | 23.7 | | µg/kg wet | | 20.0 | | 118 | 70-130 | 9 | 25 |
| Ethyl ether | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 2 | 50 |
| Tert-amyl methyl ether | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 7 | 25 |
| Ethyl tert-butyl ether | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 5 | 25 |
| Di-isopropyl ether | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 2 | 25 |
| Tert-Butanol / butyl alcohol | 217 | | µg/kg wet | | 200 | | 108 | 70-130 | 6 | 25 |
| 1,4-Dioxane | 216 | | µg/kg wet | | 200 | | 108 | 60-146 | 11 | 25 |
| trans-1,4-Dichloro-2-butene | 20.9 | CAL1 | µg/kg wet | | 20.0 | | 104 | 70-130 | 14 | 25 |
| Ethanol | 501 | | µg/kg wet | | 400 | | 125 | 70-130 | 0.6 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *31.3* | | µg/kg wet | | *30.0* | | *104* | *70-130* | | |
| *Surrogate: Toluene-d8* | *29.7* | | µg/kg wet | | *30.0* | | *99* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *30.4* | | µg/kg wet | | *30.0* | | *102* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *29.9* | | µg/kg wet | | *30.0* | | *100* | *70-130* | | |
| **Batch 9090426 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090426-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 5.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 50.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 5.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 25.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 5.0 | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 5.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090426 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090426-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 10.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 5.0 | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 50.0 | | | | | | |
| Naphthalene | BRL | | µg/kg wet | 5.0 | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Styrene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 5.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 10.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090426 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090426-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 50.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 50.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 100 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | | µg/kg wet | 25.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 2000 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *43.6* | | µg/kg wet | | *50.0* | | *87* | *70-130* | | |
| *Surrogate: Toluene-d8* | *50.8* | | µg/kg wet | | *50.0* | | *102* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *61.8* | | µg/kg wet | | *50.0* | | *124* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *55.5* | | µg/kg wet | | *50.0* | | *111* | *70-130* | | |
| **LCS (9090426-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 20.5 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Acetone | 12.0 | | µg/kg wet | | 20.0 | | 60 | 40-136 | | |
| Acrylonitrile | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Benzene | 17.3 | | µg/kg wet | | 20.0 | | 86 | 70-130 | | |
| Bromobenzene | 20.3 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Bromochloromethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Bromodichloromethane | 19.3 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Bromoform | 20.5 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| Bromomethane | 16.2 | | µg/kg wet | | 20.0 | | 81 | 61-151 | | |
| 2-Butanone (MEK) | 18.9 | | µg/kg wet | | 20.0 | | 95 | 61.5-132 | | |
| n-Butylbenzene | 16.7 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| sec-Butylbenzene | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| tert-Butylbenzene | 18.7 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Carbon disulfide | 15.8 | | µg/kg wet | | 20.0 | | 79 | 70-130 | | |
| Carbon tetrachloride | 18.7 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| Chlorobenzene | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| Chloroethane | 15.2 | | µg/kg wet | | 20.0 | | 76 | 66-130 | | |
| Chloroform | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Chloromethane | 14.1 | | µg/kg wet | | 20.0 | | 71 | 70-130 | | |
| 2-Chlorotoluene | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| 4-Chlorotoluene | 19.1 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 16.7 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| Dibromochloromethane | 18.7 | | µg/kg wet | | 20.0 | | 94 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| Dibromomethane | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| 1,2-Dichlorobenzene | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| 1,3-Dichlorobenzene | 20.9 | | µg/kg wet | | 20.0 | | 105 | 70-130 | | |
| 1,4-Dichlorobenzene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 14.8 | | µg/kg wet | | 20.0 | | 74 | 51.9-130 | | |
| 1,1-Dichloroethane | 16.8 | | µg/kg wet | | 20.0 | | 84 | 70-130 | | |
| 1,2-Dichloroethane | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,1-Dichloroethene | 17.9 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| cis-1,2-Dichloroethene | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| trans-1,2-Dichloroethene | 17.0 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090426 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS (9090426-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| 1,2-Dichloropropane | 17.3 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| 1,3-Dichloropropane | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 2,2-Dichloropropane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| 1,1-Dichloropropene | 17.7 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| cis-1,3-Dichloropropene | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| trans-1,3-Dichloropropene | 17.5 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Ethylbenzene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Hexachlorobutadiene | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-133 | | |
| 2-Hexanone (MBK) | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| Isopropylbenzene | 15.8 | | µg/kg wet | | 20.0 | | 79 | 70-130 | | |
| 4-Isopropyltoluene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| Methyl tert-butyl ether | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | | µg/kg wet | | 20.0 | | 100 | 50.3-133 | | |
| Methylene chloride | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Naphthalene | 18.9 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| n-Propylbenzene | 17.3 | | µg/kg wet | | 20.0 | | 86 | 70-130 | | |
| Styrene | 16.9 | | µg/kg wet | | 20.0 | | 85 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 19.7 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| Tetrachloroethene | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Toluene | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 19.1 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 17.9 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,1,1-Trichloroethane | 18.5 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,1,2-Trichloroethane | 19.5 | | µg/kg wet | | 20.0 | | 97 | 70-130 | | |
| Trichloroethene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-147 | | |
| 1,2,3-Trichloropropane | 21.5 | | µg/kg wet | | 20.0 | | 108 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 18.1 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Vinyl chloride | 15.7 | | µg/kg wet | | 20.0 | | 79 | 70-130 | | |
| m,p-Xylene | 39.4 | | µg/kg wet | | 40.0 | | 98 | 70-130 | | |
| o-Xylene | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | | |
| Tetrahydrofuran | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| Ethyl ether | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | | |
| Tert-amyl methyl ether | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| Ethyl tert-butyl ether | 17.9 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Di-isopropyl ether | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 204 | | µg/kg wet | | 200 | | 102 | 70-130 | | |
| 1,4-Dioxane | 188 | | µg/kg wet | | 200 | | 94 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| Ethanol | 390 | | µg/kg wet | | 400 | | 97 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.7* | | µg/kg wet | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | *50.9* | | µg/kg wet | | *50.0* | | *102* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *50.3* | | µg/kg wet | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *51.1* | | µg/kg wet | | *50.0* | | *102* | *70-130* | | |
| **LCS Dup (9090426-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 3 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090426 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS Dup (9090426-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| Acetone | 11.6 | | µg/kg wet | | 20.0 | | 58 | 40-136 | 3 | 50 |
| Acrylonitrile | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 0.9 | 25 |
| Benzene | 17.7 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 2 | 25 |
| Bromobenzene | 22.3 | | µg/kg wet | | 20.0 | | 112 | 70-130 | 9 | 25 |
| Bromochloromethane | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 4 | 25 |
| Bromodichloromethane | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 4 | 25 |
| Bromoform | 23.1 | | µg/kg wet | | 20.0 | | 115 | 70-130 | 12 | 25 |
| Bromomethane | 17.0 | | µg/kg wet | | 20.0 | | 85 | 61-151 | 5 | 50 |
| 2-Butanone (MEK) | 19.4 | | µg/kg wet | | 20.0 | | 97 | 61.5-132 | 2 | 50 |
| n-Butylbenzene | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 4 | 25 |
| sec-Butylbenzene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 11 | 25 |
| tert-Butylbenzene | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 10 | 25 |
| Carbon disulfide | 18.9 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 18 | 25 |
| Carbon tetrachloride | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 3 | 25 |
| Chlorobenzene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 7 | 25 |
| Chloroethane | 15.8 | | µg/kg wet | | 20.0 | | 79 | 66-130 | 4 | 50 |
| Chloroform | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 2 | 25 |
| Chloromethane | 14.5 | | µg/kg wet | | 20.0 | | 73 | 70-130 | 3 | 25 |
| 2-Chlorotoluene | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 10 | 25 |
| 4-Chlorotoluene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 10 | 25 |
| 1,2-Dibromo-3-chloropropane | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 8 | 25 |
| Dibromochloromethane | 19.2 | | µg/kg wet | | 20.0 | | 96 | 64.6-130 | 3 | 50 |
| 1,2-Dibromoethane (EDB) | 21.3 | | µg/kg wet | | 20.0 | | 107 | 70-130 | 1 | 25 |
| Dibromomethane | 19.6 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 1 | 25 |
| 1,2-Dichlorobenzene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 5 | 25 |
| 1,3-Dichlorobenzene | 23.1 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 10 | 25 |
| 1,4-Dichlorobenzene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 3 | 25 |
| Dichlorodifluoromethane (Freon12) | 15.0 | | µg/kg wet | | 20.0 | | 75 | 51.9-130 | 2 | 50 |
| 1,1-Dichloroethane | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 4 | 25 |
| 1,2-Dichloroethane | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 2 | 25 |
| 1,1-Dichloroethene | 18.7 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 4 | 25 |
| cis-1,2-Dichloroethene | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 4 | 25 |
| trans-1,2-Dichloroethene | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 4 | 25 |
| 1,2-Dichloropropane | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 3 | 25 |
| 1,3-Dichloropropane | 19.3 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 3 | 25 |
| 2,2-Dichloropropane | 19.1 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 1 | 25 |
| 1,1-Dichloropropene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 2 | 25 |
| cis-1,3-Dichloropropene | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 3 | 25 |
| trans-1,3-Dichloropropene | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 4 | 25 |
| Ethylbenzene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 8 | 25 |
| Hexachlorobutadiene | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-133 | 4 | 50 |
| 2-Hexanone (MBK) | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 4 | 25 |
| Isopropylbenzene | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 11 | 25 |
| 4-Isopropyltoluene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 3 | 25 |
| Methyl tert-butyl ether | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 3 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.8 | | µg/kg wet | | 20.0 | | 104 | 50.3-133 | 4 | 50 |
| Methylene chloride | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 5 | 25 |
| Naphthalene | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 0.3 | 25 |
| n-Propylbenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 11 | 25 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090426 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS Dup (9090428-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| Styrene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 10 | 25 |
| 1,1,1,2-Tetrachloroethane | 21.3 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 8 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 10 | 25 |
| Tetrachloroethene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 3 | 25 |
| Toluene | 18.1 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 2 | 25 |
| 1,2,3-Trichlorobenzene | 19.9 | | µg/kg wet | | 20.0 | | 99 | 70-130 | 4 | 25 |
| 1,2,4-Trichlorobenzene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 5 | 25 |
| 1,3,5-Trichlorobenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 3 | 25 |
| 1,1,1-Trichloroethane | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 5 | 25 |
| 1,1,2-Trichloroethane | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 4 | 25 |
| Trichloroethene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 3 | 25 |
| Trichlorofluoromethane (Freon 11) | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-147 | 4 | 50 |
| 1,2,3-Trichloropropane | 23.8 | | µg/kg wet | | 20.0 | | 119 | 70-130 | 10 | 25 |
| 1,2,4-Trimethylbenzene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 10 | 25 |
| 1,3,5-Trimethylbenzene | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 11 | 25 |
| Vinyl chloride | 16.1 | | µg/kg wet | | 20.0 | | 81 | 70-130 | 3 | 25 |
| m,p-Xylene | 43.2 | | µg/kg wet | | 40.0 | | 108 | 70-130 | 9 | 25 |
| o-Xylene | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 10 | 25 |
| Tetrahydrofuran | 19.1 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 5 | 25 |
| Ethyl ether | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 2 | 50 |
| Tert-amyl methyl ether | 17.6 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 5 | 25 |
| Ethyl tert-butyl ether | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 2 | 25 |
| Di-isopropyl ether | 17.2 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 3 | 25 |
| Tert-Butanol / butyl alcohol | 219 | | µg/kg wet | | 200 | | 109 | 70-130 | 7 | 25 |
| 1,4-Dioxane | 208 | | µg/kg wet | | 200 | | 104 | 60-146 | 10 | 25 |
| trans-1,4-Dichloro-2-butene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 7 | 25 |
| Ethanol | 389 | | µg/kg wet | | 400 | | 97 | 70-130 | 0.3 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *53.8* | | µg/kg wet | | *50.0* | | *108* | *70-130* | | |
| *Surrogate: Toluene-d8* | *50.6* | | µg/kg wet | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *49.9* | | µg/kg wet | | *50.0* | | *100* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *51.0* | | µg/kg wet | | *50.0* | | *102* | *70-130* | | |
| **Batch 9090541 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090541-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 09-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | BRL | | µg/kg wet | 5.0 | | | | | | |
| Acetone | BRL | | µg/kg wet | 50.0 | | | | | | |
| Acrylonitrile | BRL | | µg/kg wet | 5.0 | | | | | | |
| Benzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromochloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromodichloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromoform | BRL | | µg/kg wet | 5.0 | | | | | | |
| Bromomethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| 2-Butanone (MEK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| n-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| sec-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| tert-Butylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Carbon disulfide | BRL | | µg/kg wet | 25.0 | | | | | | |
| Carbon tetrachloride | BRL | | µg/kg wet | 5.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090541 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090541-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 09-Sep-09 | | | | | | | | | | |
| Chlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Chloroethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| Chloroform | BRL | | µg/kg wet | 5.0 | | | | | | |
| Chloromethane | BRL | | µg/kg wet | 10.0 | | | | | | |
| 2-Chlorotoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Chlorotoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | BRL | | µg/kg wet | 10.0 | | | | | | |
| Dibromochloromethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | BRL | | µg/kg wet | 5.0 | | | | | | |
| Dibromomethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | BRL | | µg/kg wet | 10.0 | | | | | | |
| 1,1-Dichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| cis-1,2-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| trans-1,2-Dichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 2,2-Dichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| cis-1,3-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| trans-1,3-Dichloropropene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 2-Hexanone (MBK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| Isopropylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Isopropyltoluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Methyl tert-butyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | BRL | | µg/kg wet | 50.0 | | | | | | |
| Methylene chloride | BRL | | µg/kg wet | 50.0 | | | | | | |
| Naphthalene | BRL | | µg/kg wet | 5.0 | | | | | | |
| n-Propylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Styrene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tetrachloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Toluene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,3-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,3,5-Trichlorobenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,1-Trichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,1,2-Trichloroethane | BRL | | µg/kg wet | 5.0 | | | | | | |
| Trichloroethene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,3-Trichloropropane | BRL | | µg/kg wet | 5.0 | | | | | | |
| 1,2,4-Trimethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090541 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **Blank (9090541-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 09-Sep-09 | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Vinyl chloride | BRL | | µg/kg wet | 5.0 | | | | | | |
| m,p-Xylene | BRL | | µg/kg wet | 10.0 | | | | | | |
| o-Xylene | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tetrahydrofuran | BRL | | µg/kg wet | 50.0 | | | | | | |
| Ethyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tert-amyl methyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Ethyl tert-butyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Di-isopropyl ether | BRL | | µg/kg wet | 5.0 | | | | | | |
| Tert-Butanol / butyl alcohol | BRL | | µg/kg wet | 50.0 | | | | | | |
| 1,4-Dioxane | BRL | | µg/kg wet | 100 | | | | | | |
| trans-1,4-Dichloro-2-butene | BRL | | µg/kg wet | 25.0 | | | | | | |
| Ethanol | BRL | | µg/kg wet | 2000 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *43.2* | | µg/kg wet | | *50.0* | | *86* | *70-130* | | |
| *Surrogate: Toluene-d8* | *50.8* | | µg/kg wet | | *50.0* | | *102* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *56.7* | | µg/kg wet | | *50.0* | | *113* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *53.3* | | µg/kg wet | | *50.0* | | *107* | *70-130* | | |
| **LCS (9090541-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 09-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 22.9 | | µg/kg wet | | 20.0 | | 115 | 70-130 | | |
| Acetone | 8.0 | | µg/kg wet | | 20.0 | | 40 | 40-136 | | |
| Acrylonitrile | 16.5 | | µg/kg wet | | 20.0 | | 82 | 70-130 | | |
| Benzene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Bromobenzene | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| Bromochloromethane | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| Bromodichloromethane | 20.1 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Bromoform | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| Bromomethane | 18.0 | | µg/kg wet | | 20.0 | | 90 | 61-151 | | |
| 2-Butanone (MEK) | 15.8 | | µg/kg wet | | 20.0 | | 79 | 61.5-132 | | |
| n-Butylbenzene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| sec-Butylbenzene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| tert-Butylbenzene | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Carbon disulfide | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Carbon tetrachloride | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| Chlorobenzene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| Chloroethane | 16.3 | | µg/kg wet | | 20.0 | | 82 | 66-130 | | |
| Chloroform | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Chloromethane | 15.2 | | µg/kg wet | | 20.0 | | 76 | 70-130 | | |
| 2-Chlorotoluene | 20.5 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| 4-Chlorotoluene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 14.7 | | µg/kg wet | | 20.0 | | 73 | 70-130 | | |
| Dibromochloromethane | 19.4 | | µg/kg wet | | 20.0 | | 97 | 64.6-130 | | |
| 1,2-Dibromoethane (EDB) | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Dibromomethane | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dichlorobenzene | 21.5 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| 1,3-Dichlorobenzene | 22.9 | | µg/kg wet | | 20.0 | | 115 | 70-130 | | |
| 1,4-Dichlorobenzene | 20.4 | | µg/kg wet | | 20.0 | | 102 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 17.2 | | µg/kg wet | | 20.0 | | 86 | 51.9-130 | | |
| 1,1-Dichloroethane | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| 1,2-Dichloroethane | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090541 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS (9090541-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 09-Sep-09 | | | | | | | | | | |
| 1,1-Dichloroethene | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| cis-1,2-Dichloroethene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| trans-1,2-Dichloroethene | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| 1,2-Dichloropropane | 17.3 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| 1,3-Dichloropropane | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| 2,2-Dichloropropane | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| 1,1-Dichloropropene | 18.9 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| cis-1,3-Dichloropropene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| trans-1,3-Dichloropropene | 17.9 | | µg/kg wet | | 20.0 | | 90 | 70-130 | | |
| Ethylbenzene | 20.5 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| Hexachlorobutadiene | 22.1 | | µg/kg wet | | 20.0 | | 110 | 70-133 | | |
| 2-Hexanone (MBK) | 15.8 | | µg/kg wet | | 20.0 | | 79 | 70-130 | | |
| Isopropylbenzene | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | | |
| 4-Isopropyltoluene | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Methyl tert-butyl ether | 17.5 | | µg/kg wet | | 20.0 | | 88 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 18.1 | | µg/kg wet | | 20.0 | | 91 | 50.3-133 | | |
| Methylene chloride | 17.5 | | µg/kg wet | | 20.0 | | 87 | 70-130 | | |
| Naphthalene | 18.7 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| n-Propylbenzene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| Styrene | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 18.5 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| Tetrachloroethene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Toluene | 18.8 | | µg/kg wet | | 20.0 | | 94 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | | |
| 1,1,1-Trichloroethane | 19.8 | | µg/kg wet | | 20.0 | | 99 | 70-130 | | |
| 1,1,2-Trichloroethane | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Trichloroethene | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 21.1 | | µg/kg wet | | 20.0 | | 106 | 70-147 | | |
| 1,2,3-Trichloropropane | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 18.4 | | µg/kg wet | | 20.0 | | 92 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | | |
| Vinyl chloride | 16.7 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| m,p-Xylene | 43.3 | | µg/kg wet | | 40.0 | | 108 | 70-130 | | |
| o-Xylene | 21.7 | | µg/kg wet | | 20.0 | | 109 | 70-130 | | |
| Tetrahydrofuran | 14.2 | | µg/kg wet | | 20.0 | | 71 | 70-130 | | |
| Ethyl ether | 18.2 | | µg/kg wet | | 20.0 | | 91 | 70-130 | | |
| Tert-amyl methyl ether | 16.3 | | µg/kg wet | | 20.0 | | 81 | 70-130 | | |
| Ethyl tert-butyl ether | 16.6 | | µg/kg wet | | 20.0 | | 83 | 70-130 | | |
| Di-isopropyl ether | 14.7 | | µg/kg wet | | 20.0 | | 73 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 178 | | µg/kg wet | | 200 | | 89 | 70-130 | | |
| 1,4-Dioxane | 191 | | µg/kg wet | | 200 | | 95 | 60-146 | | |
| trans-1,4-Dichloro-2-butene | 21.4 | | µg/kg wet | | 20.0 | | 107 | 70-130 | | |
| Ethanol | 350 | | µg/kg wet | | 400 | | 87 | 70-130 | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.4* | | µg/kg wet | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | *51.0* | | µg/kg wet | | *50.0* | | *102* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *48.3* | | µg/kg wet | | *50.0* | | *97* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *50.7* | | µg/kg wet | | *50.0* | | *101* | *70-130* | | |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090541 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS Dup (9090541-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 09-Sep-09 | | | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 22.2 | | µg/kg wet | | 20.0 | | 111 | 70-130 | 3 | 25 |
| Acetone | 9.2 | | µg/kg wet | | 20.0 | | 46 | 40-136 | 15 | 50 |
| Acrylonitrile | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 5 | 25 |
| Benzene | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 4 | 25 |
| Bromobenzene | 22.0 | | µg/kg wet | | 20.0 | | 110 | 70-130 | 4 | 25 |
| Bromochloromethane | 20.6 | | µg/kg wet | | 20.0 | | 103 | 70-130 | 4 | 25 |
| Bromodichloromethane | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 3 | 25 |
| Bromoform | 22.3 | | µg/kg wet | | 20.0 | | 111 | 70-130 | 4 | 25 |
| Bromomethane | 17.6 | | µg/kg wet | | 20.0 | | 88 | 61-151 | 2 | 50 |
| 2-Butanone (MEK) | 14.5 | | µg/kg wet | | 20.0 | | 72 | 61.5-132 | 9 | 50 |
| n-Butylbenzene | 17.9 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 5 | 25 |
| sec-Butylbenzene | 20.8 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 1 | 25 |
| tert-Butylbenzene | 20.9 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 3 | 25 |
| Carbon disulfide | 16.5 | | µg/kg wet | | 20.0 | | 82 | 70-130 | 6 | 25 |
| Carbon tetrachloride | 20.1 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 2 | 25 |
| Chlorobenzene | 20.5 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 0.8 | 25 |
| Chloroethane | 15.5 | | µg/kg wet | | 20.0 | | 78 | 66-130 | 5 | 50 |
| Chloroform | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 3 | 25 |
| Chloromethane | 14.1 | | µg/kg wet | | 20.0 | | 71 | 70-130 | 7 | 25 |
| 2-Chlorotoluene | 20.9 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 2 | 25 |
| 4-Chlorotoluene | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 3 | 25 |
| 1,2-Dibromo-3-chloropropane | 15.6 | | µg/kg wet | | 20.0 | | 78 | 70-130 | 6 | 25 |
| Dibromochloromethane | 19.4 | | µg/kg wet | | 20.0 | | 97 | 64.6-130 | 0.4 | 50 |
| 1,2-Dibromoethane (EDB) | 20.3 | | µg/kg wet | | 20.0 | | 101 | 70-130 | 7 | 25 |
| Dibromomethane | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 2 | 25 |
| 1,2-Dichlorobenzene | 20.5 | | µg/kg wet | | 20.0 | | 102 | 70-130 | 5 | 25 |
| 1,3-Dichlorobenzene | 23.2 | | µg/kg wet | | 20.0 | | 116 | 70-130 | 1 | 25 |
| 1,4-Dichlorobenzene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 5 | 25 |
| Dichlorodifluoromethane (Freon12) | 16.4 | | µg/kg wet | | 20.0 | | 82 | 51.9-130 | 5 | 50 |
| 1,1-Dichloroethane | 16.7 | | µg/kg wet | | 20.0 | | 84 | 70-130 | 4 | 25 |
| 1,2-Dichloroethane | 18.6 | | µg/kg wet | | 20.0 | | 93 | 70-130 | 1 | 25 |
| 1,1-Dichloroethene | 18.7 | | µg/kg wet | | 20.0 | | 94 | 70-130 | 5 | 25 |
| cis-1,2-Dichloroethene | 19.4 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 6 | 25 |
| trans-1,2-Dichloroethene | 17.8 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 3 | 25 |
| 1,2-Dichloropropane | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | 6 | 25 |
| 1,3-Dichloropropane | 18.3 | | µg/kg wet | | 20.0 | | 92 | 70-130 | 0.7 | 25 |
| 2,2-Dichloropropane | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 4 | 25 |
| 1,1-Dichloropropene | 18.1 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 4 | 25 |
| cis-1,3-Dichloropropene | 17.4 | | µg/kg wet | | 20.0 | | 87 | 70-130 | 4 | 25 |
| trans-1,3-Dichloropropene | 16.9 | | µg/kg wet | | 20.0 | | 85 | 70-130 | 6 | 25 |
| Ethylbenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 6 | 25 |
| Hexachlorobutadiene | 19.7 | | µg/kg wet | | 20.0 | | 99 | 70-133 | 11 | 50 |
| 2-Hexanone (MBK) | 16.1 | | µg/kg wet | | 20.0 | | 80 | 70-130 | 2 | 25 |
| Isopropylbenzene | 17.5 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 1 | 25 |
| 4-Isopropyltoluene | 19.5 | | µg/kg wet | | 20.0 | | 97 | 70-130 | 3 | 25 |
| Methyl tert-butyl ether | 17.9 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 17.7 | | µg/kg wet | | 20.0 | | 88 | 50.3-133 | 2 | 50 |
| Methylene chloride | 17.1 | | µg/kg wet | | 20.0 | | 85 | 70-130 | 2 | 25 |
| Naphthalene | 17.2 | | µg/kg wet | | 20.0 | | 86 | 70-130 | 8 | 25 |

## Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090541 - SW846 5035A Soil (low level)** | | | | | | | | | | |
| **LCS Dup (9090541-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 09-Sep-09 | | | | | | | | | | |
| n-Propylbenzene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 2 | 25 |
| Styrene | 18.1 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 3 | 25 |
| 1,1,1,2-Tetrachloroethane | 20.7 | | µg/kg wet | | 20.0 | | 104 | 70-130 | 2 | 25 |
| 1,1,2,2-Tetrachloroethane | 19.3 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 4 | 25 |
| Tetrachloroethene | 21.2 | | µg/kg wet | | 20.0 | | 106 | 70-130 | 3 | 25 |
| Toluene | 18.3 | | µg/kg wet | | 20.0 | | 91 | 70-130 | 3 | 25 |
| 1,2,3-Trichlorobenzene | 18.0 | | µg/kg wet | | 20.0 | | 90 | 70-130 | 13 | 25 |
| 1,2,4-Trichlorobenzene | 17.7 | | µg/kg wet | | 20.0 | | 88 | 70-130 | 8 | 25 |
| 1,3,5-Trichlorobenzene | 19.5 | | µg/kg wet | | 20.0 | | 98 | 70-130 | 6 | 25 |
| 1,1,1-Trichloroethane | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 4 | 25 |
| 1,1,2-Trichloroethane | 19.1 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 0.5 | 25 |
| Trichloroethene | 19.2 | | µg/kg wet | | 20.0 | | 96 | 70-130 | 5 | 25 |
| Trichlorofluoromethane (Freon 11) | 20.2 | | µg/kg wet | | 20.0 | | 101 | 70-147 | 5 | 50 |
| 1,2,3-Trichloropropane | 21.0 | | µg/kg wet | | 20.0 | | 105 | 70-130 | 2 | 25 |
| 1,2,4-Trimethylbenzene | 19.0 | | µg/kg wet | | 20.0 | | 95 | 70-130 | 3 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 4 | 25 |
| Vinyl chloride | 16.0 | | µg/kg wet | | 20.0 | | 80 | 70-130 | 4 | 25 |
| m,p-Xylene | 42.7 | | µg/kg wet | | 40.0 | | 107 | 70-130 | 1 | 25 |
| o-Xylene | 21.8 | | µg/kg wet | | 20.0 | | 109 | 70-130 | 0.6 | 25 |
| Tetrahydrofuran | 15.6 | | µg/kg wet | | 20.0 | | 78 | 70-130 | 10 | 25 |
| Ethyl ether | 17.9 | | µg/kg wet | | 20.0 | | 89 | 70-130 | 2 | 50 |
| Tert-amyl methyl ether | 16.4 | | µg/kg wet | | 20.0 | | 82 | 70-130 | 0.7 | 25 |
| Ethyl tert-butyl ether | 16.2 | | µg/kg wet | | 20.0 | | 81 | 70-130 | 2 | 25 |
| Di-isopropyl ether | 14.2 | | µg/kg wet | | 20.0 | | 71 | 70-130 | 3 | 25 |
| Tert-Butanol / butyl alcohol | 188 | | µg/kg wet | | 200 | | 94 | 70-130 | 6 | 25 |
| 1,4-Dioxane | 203 | | µg/kg wet | | 200 | | 101 | 60-146 | 6 | 25 |
| trans-1,4-Dichloro-2-butene | 19.9 | | µg/kg wet | | 20.0 | | 100 | 70-130 | 7 | 25 |
| Ethanol | 357 | | µg/kg wet | | 400 | | 89 | 70-130 | 2 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | *52.8* | | µg/kg wet | | *50.0* | | *106* | *70-130* | | |
| *Surrogate: Toluene-d8* | *50.5* | | µg/kg wet | | *50.0* | | *101* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *49.2* | | µg/kg wet | | *50.0* | | *98* | *70-130* | | |
| *Surrogate: Dibromofluoromethane* | *51.0* | | µg/kg wet | | *50.0* | | *102* | *70-130* | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090106 - SW846 3510C** | | | | | | | | | | |
| **Blank (9090106-BLK1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| Acenaphthene | BRL | | µg/l | 5.00 | | | | | | |
| Acenaphthene | BRL | | µg/l | 0.050 | | | | | | |
| Acenaphthylene | BRL | | µg/l | 5.00 | | | | | | |
| Acenaphthylene | BRL | | µg/l | 0.050 | | | | | | |
| Aniline | BRL | | µg/l | 5.00 | | | | | | |
| 1-Methylnaphthalene | BRL | | µg/l | 0.050 | | | | | | |
| Anthracene | BRL | | µg/l | 5.00 | | | | | | |
| Anthracene | BRL | | µg/l | 0.050 | | | | | | |
| Atrazine | BRL | | µg/l | 5.00 | | | | | | |
| Azobenzene/Diphenyldiazine | BRL | | µg/l | 5.00 | | | | | | |
| Benzidine | BRL | | µg/l | 5.00 | | | | | | |
| Benzo (a) anthracene | BRL | | µg/l | 0.050 | | | | | | |
| Benzo (a) anthracene | BRL | | µg/l | 5.00 | | | | | | |
| Benzo (a) pyrene | BRL | | µg/l | 0.050 | | | | | | |
| Benzo (a) pyrene | BRL | | µg/l | 5.00 | | | | | | |
| Benzo (b) fluoranthene | BRL | | µg/l | 5.00 | | | | | | |
| Benzo (b) fluoranthene | BRL | | µg/l | 0.050 | | | | | | |
| Benzo (g,h,i) perylene | BRL | | µg/l | 5.00 | | | | | | |
| Benzo (g,h,i) perylene | BRL | | µg/l | 0.050 | | | | | | |
| Benzo (k) fluoranthene | BRL | | µg/l | 5.00 | | | | | | |
| Benzo (k) fluoranthene | BRL | | µg/l | 0.050 | | | | | | |
| Benzoic acid | BRL | | µg/l | 5.00 | | | | | | |
| Benzyl alcohol | BRL | | µg/l | 5.00 | | | | | | |
| Bis(2-chloroethoxy)methane | BRL | | µg/l | 5.00 | | | | | | |
| Bis(2-chloroethyl)ether | BRL | | µg/l | 5.00 | | | | | | |
| Bis(2-chloroisopropyl)ether | BRL | | µg/l | 5.00 | | | | | | |
| Bis(2-ethylhexyl)phthalate | BRL | | µg/l | 5.00 | | | | | | |
| 4-Bromophenyl phenyl ether | BRL | | µg/l | 5.00 | | | | | | |
| Butyl benzyl phthalate | BRL | | µg/l | 5.00 | | | | | | |
| Carbazole | BRL | | µg/l | 5.00 | | | | | | |
| 4-Chloro-3-methylphenol | BRL | | µg/l | 5.00 | | | | | | |
| 4-Chloroaniline | BRL | | µg/l | 5.00 | | | | | | |
| 2-Chloronaphthalene | BRL | | µg/l | 5.00 | | | | | | |
| 2-Chlorophenol | BRL | | µg/l | 5.00 | | | | | | |
| 4-Chlorophenyl phenyl ether | BRL | | µg/l | 5.00 | | | | | | |
| Chrysene | BRL | | µg/l | 5.00 | | | | | | |
| Chrysene | BRL | | µg/l | 0.050 | | | | | | |
| Dibenzo (a,h) anthracene | BRL | | µg/l | 0.050 | | | | | | |
| Dibenzo (a,h) anthracene | BRL | | µg/l | 5.00 | | | | | | |
| Dibenzofuran | BRL | | µg/l | 5.00 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/l | 5.00 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/l | 5.00 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/l | 5.00 | | | | | | |
| 3,3'-Dichlorobenzidine | BRL | | µg/l | 5.00 | | | | | | |
| 2,4-Dichlorophenol | BRL | | µg/l | 5.00 | | | | | | |
| Diethyl phthalate | BRL | | µg/l | 5.00 | | | | | | |
| Dimethyl phthalate | BRL | | µg/l | 5.00 | | | | | | |
| 2,4-Dimethylphenol | BRL | | µg/l | 5.00 | | | | | | |
| Di-n-butyl phthalate | BRL | | µg/l | 5.00 | | | | | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090106 - SW846 3510C** | | | | | | | | | | |
| **Blank (9090106-BLK1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | BRL | | µg/l | 5.00 | | | | | | |
| 2,4-Dinitrophenol | BRL | | µg/l | 5.00 | | | | | | |
| 2,4-Dinitrotoluene | BRL | | µg/l | 5.00 | | | | | | |
| 2,6-Dinitrotoluene | BRL | | µg/l | 5.00 | | | | | | |
| Di-n-octyl phthalate | BRL | | µg/l | 5.00 | | | | | | |
| Fluoranthene | BRL | | µg/l | 0.050 | | | | | | |
| Fluoranthene | BRL | | µg/l | 5.00 | | | | | | |
| Fluorene | BRL | | µg/l | 5.00 | | | | | | |
| Fluorene | BRL | | µg/l | 0.050 | | | | | | |
| Hexachlorobenzene | BRL | | µg/l | 5.00 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/l | 5.00 | | | | | | |
| Hexachlorocyclopentadiene | BRL | | µg/l | 5.00 | | | | | | |
| Hexachloroethane | BRL | | µg/l | 5.00 | | | | | | |
| Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 0.050 | | | | | | |
| Indeno (1,2,3-cd) pyrene | BRL | | µg/l | 5.00 | | | | | | |
| Isophorone | BRL | | µg/l | 5.00 | | | | | | |
| 2-Methylnaphthalene | BRL | | µg/l | 0.050 | | | | | | |
| 2-Methylnaphthalene | BRL | | µg/l | 5.00 | | | | | | |
| 2-Methylphenol | BRL | | µg/l | 5.00 | | | | | | |
| 3 & 4-Methylphenol | BRL | | µg/l | 10.0 | | | | | | |
| Naphthalene | BRL | | µg/l | 5.00 | | | | | | |
| Naphthalene | BRL | | µg/l | 0.050 | | | | | | |
| 2-Nitroaniline | BRL | | µg/l | 5.00 | | | | | | |
| 3-Nitroaniline | BRL | | µg/l | 5.00 | | | | | | |
| 4-Nitroaniline | BRL | | µg/l | 20.0 | | | | | | |
| Nitrobenzene | BRL | | µg/l | 5.00 | | | | | | |
| 2-Nitrophenol | BRL | | µg/l | 5.00 | | | | | | |
| 4-Nitrophenol | BRL | | µg/l | 20.0 | | | | | | |
| N-Nitrosodimethylamine | BRL | | µg/l | 5.00 | | | | | | |
| N-Nitrosodi-n-propylamine | BRL | | µg/l | 5.00 | | | | | | |
| N-Nitrosodiphenylamine | BRL | | µg/l | 5.00 | | | | | | |
| Pentachlorophenol | BRL | | µg/l | 20.0 | | | | | | |
| Phenanthrene | BRL | | µg/l | 0.050 | | | | | | |
| Phenanthrene | BRL | | µg/l | 5.00 | | | | | | |
| Phenol | BRL | | µg/l | 5.00 | | | | | | |
| Pyrene | BRL | | µg/l | 5.00 | | | | | | |
| Pyrene | BRL | | µg/l | 0.050 | | | | | | |
| Pyridine | BRL | | µg/l | 5.00 | | | | | | |
| 1-Methylnaphthalene | BRL | | µg/l | 5.00 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/l | 5.00 | | | | | | |
| 2,4,5-Trichlorophenol | BRL | | µg/l | 5.00 | | | | | | |
| 2,4,6-Trichlorophenol | BRL | | µg/l | 5.00 | | | | | | |
| Pentachloronitrobenzene | BRL | | µg/l | 5.00 | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | BRL | | µg/l | 5.00 | | | | | | |
| *Surrogate: 2-Fluorobiphenyl* | *31.3* | | µg/l | | *50.0* | | *63* | *30-130* | | |
| *Surrogate: Terphenyl-dl4* | *29.6* | | µg/l | | *50.0* | | *59* | *30-130* | | |
| *Surrogate: 2-Fluorobiphenyl* | *31.3* | | µg/l | | *50.0* | | *63* | *30-130* | | |
| *Surrogate: 2-Fluorophenol* | *14.4* | | µg/l | | *50.0* | | *29* | *15-110* | | |
| *Surrogate: Nitrobenzene-d5* | *27.8* | | µg/l | | *50.0* | | *56* | *30-130* | | |
| *Surrogate: Phenol-d5* | *10.6* | | µg/l | | *50.0* | | *21* | *15-110* | | |
| *Surrogate: Terphenyl-dl4* | *29.6* | | µg/l | | *50.0* | | *59* | *30-130* | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090106 - SW846 3510C** | | | | | | | | | | |
| **Blank (9090106-BLK1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *32.3* | | µg/l | | *50.0* | | *65* | *15-110* | | |
| **LCS (9090106-BS1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| Acenaphthene | 43.7 | | µg/l | 5.00 | 50.0 | | 87 | 40-130 | | |
| Acenaphthene | 43.7 | | µg/l | 0.050 | 50.0 | | 87 | 40-140 | | |
| Acenaphthylene | 39.6 | | µg/l | 0.050 | 50.0 | | 79 | 40-140 | | |
| Acenaphthylene | 39.6 | | µg/l | 5.00 | 50.0 | | 79 | 40-130 | | |
| Aniline | 26.3 | | µg/l | 5.00 | 50.0 | | 53 | 40-130 | | |
| 1-Methylnaphthalene | 35.0 | | µg/l | 0.050 | 50.0 | | 70 | 40-140 | | |
| Anthracene | 37.6 | | µg/l | 0.050 | 50.0 | | 75 | 40-140 | | |
| Anthracene | 37.6 | | µg/l | 5.00 | 50.0 | | 75 | 40-130 | | |
| Atrazine | 43.0 | | µg/l | 5.00 | 50.0 | | 86 | 40-130 | | |
| Azobenzene/Diphenyldiazine | 41.7 | | µg/l | 5.00 | 50.0 | | 83 | 40-130 | | |
| Benzidine | 5.37 | | µg/l | 5.00 | 50.0 | | 11 | 0-130 | | |
| Benzo (a) anthracene | 34.8 | | µg/l | 5.00 | 50.0 | | 70 | 40-130 | | |
| Benzo (a) anthracene | 34.8 | | µg/l | 0.050 | 50.0 | | 70 | 40-140 | | |
| Benzo (a) pyrene | 38.6 | | µg/l | 0.050 | 50.0 | | 77 | 40-140 | | |
| Benzo (a) pyrene | 38.6 | | µg/l | 5.00 | 50.0 | | 77 | 40-130 | | |
| Benzo (b) fluoranthene | 44.4 | | µg/l | 0.050 | 50.0 | | 89 | 40-140 | | |
| Benzo (b) fluoranthene | 44.4 | | µg/l | 5.00 | 50.0 | | 89 | 40-130 | | |
| Benzo (g,h,i) perylene | 33.3 | | µg/l | 0.050 | 50.0 | | 67 | 40-140 | | |
| Benzo (g,h,i) perylene | 33.3 | | µg/l | 5.00 | 50.0 | | 67 | 40-130 | | |
| Benzo (k) fluoranthene | 39.4 | | µg/l | 5.00 | 50.0 | | 79 | 40-130 | | |
| Benzo (k) fluoranthene | 39.4 | | µg/l | 0.050 | 50.0 | | 79 | 40-140 | | |
| Benzoic acid | 23.2 | | µg/l | 5.00 | 50.0 | | 46 | 11.9-130 | | |
| Benzyl alcohol | 35.3 | | µg/l | 5.00 | 50.0 | | 71 | 40-130 | | |
| Bis(2-chloroethoxy)methane | 30.6 | | µg/l | 5.00 | 50.0 | | 61 | 40-130 | | |
| Bis(2-chloroethyl)ether | 33.7 | | µg/l | 5.00 | 50.0 | | 67 | 40-130 | | |
| Bis(2-chloroisopropyl)ether | 39.6 | | µg/l | 5.00 | 50.0 | | 79 | 40-130 | | |
| Bis(2-ethylhexyl)phthalate | 37.6 | | µg/l | 5.00 | 50.0 | | 75 | 40-130 | | |
| 4-Bromophenyl phenyl ether | 40.2 | | µg/l | 5.00 | 50.0 | | 80 | 40-130 | | |
| Butyl benzyl phthalate | 34.1 | | µg/l | 5.00 | 50.0 | | 68 | 40-130 | | |
| Carbazole | 34.1 | | µg/l | 5.00 | 50.0 | | 68 | 40-130 | | |
| 4-Chloro-3-methylphenol | 33.3 | | µg/l | 5.00 | 50.0 | | 67 | 40-130 | | |
| 4-Chloroaniline | 30.2 | | µg/l | 5.00 | 50.0 | | 60 | 40-130 | | |
| 2-Chloronaphthalene | 33.9 | | µg/l | 5.00 | 50.0 | | 68 | 40-130 | | |
| 2-Chlorophenol | 32.9 | | µg/l | 5.00 | 50.0 | | 66 | 40-130 | | |
| 4-Chlorophenyl phenyl ether | 41.0 | | µg/l | 5.00 | 50.0 | | 82 | 40-130 | | |
| Chrysene | 39.2 | | µg/l | 5.00 | 50.0 | | 78 | 40-130 | | |
| Chrysene | 39.2 | | µg/l | 0.050 | 50.0 | | 78 | 40-140 | | |
| Dibenzo (a,h) anthracene | 46.4 | | µg/l | 5.00 | 50.0 | | 93 | 40-130 | | |
| Dibenzo (a,h) anthracene | 46.4 | | µg/l | 0.050 | 50.0 | | 93 | 40-140 | | |
| Dibenzofuran | 38.7 | | µg/l | 5.00 | 50.0 | | 77 | 40-130 | | |
| 1,2-Dichlorobenzene | 33.9 | | µg/l | 5.00 | 50.0 | | 68 | 40-130 | | |
| 1,3-Dichlorobenzene | 30.3 | | µg/l | 5.00 | 50.0 | | 61 | 40-130 | | |
| 1,4-Dichlorobenzene | 34.1 | | µg/l | 5.00 | 50.0 | | 68 | 40-130 | | |
| 3,3'-Dichlorobenzidine | 38.2 | | µg/l | 5.00 | 50.0 | | 76 | 40-130 | | |
| 2,4-Dichlorophenol | 34.4 | | µg/l | 5.00 | 50.0 | | 69 | 40-130 | | |
| Diethyl phthalate | 45.0 | | µg/l | 5.00 | 50.0 | | 90 | 40-130 | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090106 - SW846 3510C** | | | | | | | | | | |
| **LCS (9090106-BS1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| Dimethyl phthalate | 42.4 | | µg/l | 5.00 | 50.0 | | 85 | 40-130 | | |
| 2,4-Dimethylphenol | 31.2 | | µg/l | 5.00 | 50.0 | | 62 | 40-130 | | |
| Di-n-butyl phthalate | 42.0 | | µg/l | 5.00 | 50.0 | | 84 | 40-130 | | |
| 4,6-Dinitro-2-methylphenol | 14.4 | QC2 | µg/l | 5.00 | 50.0 | | 29 | 40-130 | | |
| 2,4-Dinitrophenol | 16.6 | QC2 | µg/l | 5.00 | 50.0 | | 33 | 40-130 | | |
| 2,4-Dinitrotoluene | 36.4 | | µg/l | 5.00 | 50.0 | | 73 | 40-130 | | |
| 2,6-Dinitrotoluene | 31.4 | | µg/l | 5.00 | 50.0 | | 63 | 40-130 | | |
| Di-n-octyl phthalate | 46.0 | | µg/l | 5.00 | 50.0 | | 92 | 40-130 | | |
| Fluoranthene | 38.6 | | µg/l | 5.00 | 50.0 | | 77 | 40-130 | | |
| Fluoranthene | 38.6 | | µg/l | 0.050 | 50.0 | | 77 | 40-140 | | |
| Fluorene | 39.7 | | µg/l | 0.050 | 50.0 | | 79 | 40-140 | | |
| Fluorene | 39.7 | | µg/l | 5.00 | 50.0 | | 79 | 40-130 | | |
| Hexachlorobenzene | 34.4 | | µg/l | 5.00 | 50.0 | | 69 | 40-130 | | |
| Hexachlorobutadiene | 39.0 | | µg/l | 5.00 | 50.0 | | 78 | 40-130 | | |
| Hexachlorocyclopentadiene | 10.5 | QC2 | µg/l | 5.00 | 50.0 | | 21 | 40-130 | | |
| Hexachloroethane | 34.6 | | µg/l | 5.00 | 50.0 | | 69 | 40-130 | | |
| Indeno (1,2,3-cd) pyrene | 40.5 | | µg/l | 5.00 | 50.0 | | 81 | 40-130 | | |
| Indeno (1,2,3-cd) pyrene | 40.5 | | µg/l | 0.050 | 50.0 | | 81 | 40-140 | | |
| Isophorone | 29.6 | | µg/l | 5.00 | 50.0 | | 59 | 40-130 | | |
| 2-Methylnaphthalene | 35.3 | | µg/l | 5.00 | 50.0 | | 71 | 40-130 | | |
| 2-Methylnaphthalene | 35.3 | | µg/l | 0.050 | 50.0 | | 71 | 40-140 | | |
| 2-Methylphenol | 28.5 | | µg/l | 5.00 | 50.0 | | 57 | 40-130 | | |
| 3 & 4-Methylphenol | 31.8 | | µg/l | 10.0 | 50.0 | | 64 | 40-130 | | |
| Naphthalene | 38.0 | | µg/l | 0.050 | 50.0 | | 76 | 40-140 | | |
| Naphthalene | 38.0 | | µg/l | 5.00 | 50.0 | | 76 | 40-130 | | |
| 2-Nitroaniline | 35.6 | | µg/l | 5.00 | 50.0 | | 71 | 40-130 | | |
| 3-Nitroaniline | 35.1 | | µg/l | 5.00 | 50.0 | | 70 | 40-130 | | |
| 4-Nitroaniline | 35.2 | | µg/l | 20.0 | 50.0 | | 70 | 40-130 | | |
| Nitrobenzene | 34.0 | | µg/l | 5.00 | 50.0 | | 68 | 40-130 | | |
| 2-Nitrophenol | 29.1 | | µg/l | 5.00 | 50.0 | | 58 | 40-130 | | |
| 4-Nitrophenol | 40.1 | | µg/l | 20.0 | 50.0 | | 80 | 40-130 | | |
| N-Nitrosodimethylamine | 23.1 | | µg/l | 5.00 | 50.0 | | 46 | 40-130 | | |
| N-Nitrosodi-n-propylamine | 38.1 | | µg/l | 5.00 | 50.0 | | 76 | 40-130 | | |
| N-Nitrosodiphenylamine | 37.1 | | µg/l | 5.00 | 50.0 | | 74 | 40-130 | | |
| Pentachlorophenol | 39.9 | | µg/l | 20.0 | 50.0 | | 80 | 40-130 | | |
| Phenanthrene | 39.4 | | µg/l | 5.00 | 50.0 | | 79 | 40-130 | | |
| Phenanthrene | 39.4 | | µg/l | 0.050 | 50.0 | | 79 | 40-140 | | |
| Phenol | 16.8 | QC2 | µg/l | 5.00 | 50.0 | | 34 | 40-130 | | |
| Pyrene | 32.2 | | µg/l | 5.00 | 50.0 | | 64 | 40-130 | | |
| Pyrene | 32.2 | | µg/l | 0.050 | 50.0 | | 64 | 40-140 | | |
| Pyridine | 41.0 | | µg/l | 5.00 | 50.0 | | 82 | 10-130 | | |
| 1-Methylnaphthalene | 35.0 | | µg/l | 5.00 | 50.0 | | 70 | 40-140 | | |
| 1,2,4-Trichlorobenzene | 32.4 | | µg/l | 5.00 | 50.0 | | 65 | 40-130 | | |
| 2,4,5-Trichlorophenol | 37.2 | | µg/l | 5.00 | 50.0 | | 74 | 40-130 | | |
| 2,4,6-Trichlorophenol | 36.5 | | µg/l | 5.00 | 50.0 | | 73 | 40-130 | | |
| Pentachloronitrobenzene | 36.9 | | µg/l | 5.00 | 50.0 | | 74 | 40-140 | | |
| 1,2,4,5-Tetrachlorobenzene | 31.7 | | µg/l | 5.00 | 50.0 | | 63 | 40-140 | | |
| *Surrogate: 2-Fluorobiphenyl* | *33.7* | | µg/l | | *50.0* | | *67* | *30-130* | | |
| *Surrogate: Terphenyl-dl4* | *26.4* | | µg/l | | *50.0* | | *53* | *30-130* | | |
| *Surrogate: 2-Fluorobiphenyl* | *33.7* | | µg/l | | *50.0* | | *67* | *30-130* | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090106 - SW846 3510C** | | | | | | | | | | |
| **LCS (9090106-BS1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *15.6* | | µg/l | | *50.0* | | *31* | *15-110* | | |
| *Surrogate: Nitrobenzene-d5* | *30.4* | | µg/l | | *50.0* | | *61* | *30-130* | | |
| *Surrogate: Phenol-d5* | *10.6* | | µg/l | | *50.0* | | *21* | *15-110* | | |
| *Surrogate: Terphenyl-dl4* | *26.4* | | µg/l | | *50.0* | | *53* | *30-130* | | |
| *Surrogate: 2,4,6-Tribromophenol* | *35.2* | | µg/l | | *50.0* | | *70* | *15-110* | | |
| **LCS Dup (9090106-BSD1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| Acenaphthene | 39.4 | | µg/l | 0.050 | 50.0 | | 79 | 40-140 | 10 | 20 |
| Acenaphthylene | 35.4 | | µg/l | 0.050 | 50.0 | | 71 | 40-140 | 11 | 20 |
| 1-Methylnaphthalene | 33.8 | | µg/l | 0.050 | 50.0 | | 68 | 40-140 | 3 | 20 |
| Anthracene | 34.7 | | µg/l | 0.050 | 50.0 | | 69 | 40-140 | 8 | 20 |
| Benzo (a) anthracene | 32.8 | | µg/l | 0.050 | 50.0 | | 66 | 40-140 | 6 | 20 |
| Benzo (a) pyrene | 35.2 | | µg/l | 0.050 | 50.0 | | 70 | 40-140 | 9 | 20 |
| Benzo (b) fluoranthene | 42.7 | | µg/l | 0.050 | 50.0 | | 85 | 40-140 | 4 | 20 |
| Benzo (g,h,i) perylene | 30.4 | | µg/l | 0.050 | 50.0 | | 61 | 40-140 | 9 | 20 |
| Benzo (k) fluoranthene | 32.3 | | µg/l | 0.050 | 50.0 | | 65 | 40-140 | 20 | 20 |
| Chrysene | 36.3 | | µg/l | 0.050 | 50.0 | | 73 | 40-140 | 8 | 20 |
| Dibenzo (a,h) anthracene | 41.6 | | µg/l | 0.050 | 50.0 | | 83 | 40-140 | 11 | 20 |
| Fluoranthene | 35.7 | | µg/l | 0.050 | 50.0 | | 71 | 40-140 | 8 | 20 |
| Fluorene | 35.3 | | µg/l | 0.050 | 50.0 | | 71 | 40-140 | 12 | 20 |
| Indeno (1,2,3-cd) pyrene | 36.2 | | µg/l | 0.050 | 50.0 | | 72 | 40-140 | 11 | 20 |
| 2-Methylnaphthalene | 34.4 | | µg/l | 0.050 | 50.0 | | 69 | 40-140 | 2 | 20 |
| Naphthalene | 34.0 | | µg/l | 0.050 | 50.0 | | 68 | 40-140 | 11 | 20 |
| Phenanthrene | 35.0 | | µg/l | 0.050 | 50.0 | | 70 | 40-140 | 12 | 20 |
| Pyrene | 30.1 | | µg/l | 0.050 | 50.0 | | 60 | 40-140 | 7 | 20 |
| *Surrogate: 2-Fluorobiphenyl* | *33.4* | | µg/l | | *50.0* | | *67* | *30-130* | | |
| *Surrogate: Terphenyl-dl4* | *26.8* | | µg/l | | *50.0* | | *54* | *30-130* | | |
| **Batch 9090296 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090296-BLK1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Acenaphthene | BRL | | µg/kg wet | 165 | | | | | | |
| Acenaphthylene | BRL | | µg/kg wet | 165 | | | | | | |
| Aniline | BRL | | µg/kg wet | 330 | | | | | | |
| Anthracene | BRL | | µg/kg wet | 165 | | | | | | |
| Atrazine | BRL | | µg/kg wet | 330 | | | | | | |
| Azobenzene/Diphenyldiazine | BRL | | µg/kg wet | 330 | | | | | | |
| Benzidine | BRL | | µg/kg wet | 330 | | | | | | |
| Benzo (a) anthracene | BRL | | µg/kg wet | 165 | | | | | | |
| Benzo (a) pyrene | BRL | | µg/kg wet | 165 | | | | | | |
| Benzo (b) fluoranthene | BRL | | µg/kg wet | 165 | | | | | | |
| Benzo (g,h,i) perylene | BRL | | µg/kg wet | 165 | | | | | | |
| Benzo (k) fluoranthene | BRL | | µg/kg wet | 165 | | | | | | |
| Benzoic acid | BRL | | µg/kg wet | 330 | | | | | | |
| Benzyl alcohol | BRL | | µg/kg wet | 330 | | | | | | |
| Bis(2-chloroethoxy)methane | BRL | | µg/kg wet | 330 | | | | | | |
| Bis(2-chloroethyl)ether | BRL | | µg/kg wet | 330 | | | | | | |
| Bis(2-chloroisopropyl)ether | BRL | | µg/kg wet | 330 | | | | | | |
| Bis(2-ethylhexyl)phthalate | BRL | | µg/kg wet | 330 | | | | | | |
| 4-Bromophenyl phenyl ether | BRL | | µg/kg wet | 330 | | | | | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090296 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090296-BLK1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Butyl benzyl phthalate | BRL | | µg/kg wet | 330 | | | | | | |
| Carbazole | BRL | | µg/kg wet | 330 | | | | | | |
| 4-Chloro-3-methylphenol | BRL | | µg/kg wet | 330 | | | | | | |
| 4-Chloroaniline | BRL | | µg/kg wet | 330 | | | | | | |
| 2-Chloronaphthalene | BRL | | µg/kg wet | 330 | | | | | | |
| 2-Chlorophenol | BRL | | µg/kg wet | 330 | | | | | | |
| 4-Chlorophenyl phenyl ether | BRL | | µg/kg wet | 330 | | | | | | |
| Chrysene | BRL | | µg/kg wet | 165 | | | | | | |
| Dibenzo (a,h) anthracene | BRL | | µg/kg wet | 165 | | | | | | |
| Dibenzofuran | BRL | | µg/kg wet | 330 | | | | | | |
| 1,2-Dichlorobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| 1,3-Dichlorobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| 1,4-Dichlorobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| 3,3´-Dichlorobenzidine | BRL | | µg/kg wet | 330 | | | | | | |
| 2,4-Dichlorophenol | BRL | | µg/kg wet | 330 | | | | | | |
| Diethyl phthalate | BRL | | µg/kg wet | 330 | | | | | | |
| Dimethyl phthalate | BRL | | µg/kg wet | 330 | | | | | | |
| 2,4-Dimethylphenol | BRL | | µg/kg wet | 330 | | | | | | |
| Di-n-butyl phthalate | BRL | | µg/kg wet | 330 | | | | | | |
| 4,6-Dinitro-2-methylphenol | BRL | | µg/kg wet | 330 | | | | | | |
| 2,4-Dinitrophenol | BRL | | µg/kg wet | 330 | | | | | | |
| 2,4-Dinitrotoluene | BRL | | µg/kg wet | 330 | | | | | | |
| 2,6-Dinitrotoluene | BRL | | µg/kg wet | 330 | | | | | | |
| Di-n-octyl phthalate | BRL | | µg/kg wet | 330 | | | | | | |
| Fluoranthene | BRL | | µg/kg wet | 165 | | | | | | |
| Fluorene | BRL | | µg/kg wet | 165 | | | | | | |
| Hexachlorobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| Hexachlorobutadiene | BRL | | µg/kg wet | 330 | | | | | | |
| Hexachlorocyclopentadiene | BRL | | µg/kg wet | 330 | | | | | | |
| Hexachloroethane | BRL | | µg/kg wet | 330 | | | | | | |
| Indeno (1,2,3-cd) pyrene | BRL | | µg/kg wet | 165 | | | | | | |
| 1-Methylnaphthalene | BRL | | µg/kg wet | 165 | | | | | | |
| Isophorone | BRL | | µg/kg wet | 330 | | | | | | |
| 2-Methylnaphthalene | BRL | | µg/kg wet | 165 | | | | | | |
| 2-Methylphenol | BRL | | µg/kg wet | 330 | | | | | | |
| 3 & 4-Methylphenol | BRL | | µg/kg wet | 330 | | | | | | |
| Naphthalene | BRL | | µg/kg wet | 165 | | | | | | |
| 2-Nitroaniline | BRL | | µg/kg wet | 330 | | | | | | |
| 3-Nitroaniline | BRL | | µg/kg wet | 330 | | | | | | |
| 4-Nitroaniline | BRL | | µg/kg wet | 1320 | | | | | | |
| Nitrobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| 2-Nitrophenol | BRL | | µg/kg wet | 330 | | | | | | |
| 4-Nitrophenol | BRL | | µg/kg wet | 1320 | | | | | | |
| N-Nitrosodimethylamine | BRL | | µg/kg wet | 330 | | | | | | |
| N-Nitrosodi-n-propylamine | BRL | | µg/kg wet | 330 | | | | | | |
| N-Nitrosodiphenylamine | BRL | | µg/kg wet | 330 | | | | | | |
| Pentachlorophenol | BRL | | µg/kg wet | 330 | | | | | | |
| Phenanthrene | BRL | | µg/kg wet | 165 | | | | | | |
| Phenol | BRL | | µg/kg wet | 330 | | | | | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090296 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090296-BLK1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Pyrene | BRL | | µg/kg wet | 165 | | | | | | |
| Pyridine | BRL | | µg/kg wet | 330 | | | | | | |
| 1,2,4-Trichlorobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| 2,4,5-Trichlorophenol | BRL | | µg/kg wet | 330 | | | | | | |
| 2,4,6-Trichlorophenol | BRL | | µg/kg wet | 330 | | | | | | |
| Pentachloronitrobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | BRL | | µg/kg wet | 330 | | | | | | |
| *Surrogate: 2-Fluorobiphenyl* | *3140* | | µg/kg wet | | *3330* | | *94* | *30-130* | | |
| *Surrogate: 2-Fluorophenol* | *1870* | | µg/kg wet | | *3330* | | *56* | *15-110* | | |
| *Surrogate: Nitrobenzene-d5* | *2730* | | µg/kg wet | | *3330* | | *82* | *30-130* | | |
| *Surrogate: Phenol-d5* | *2000* | | µg/kg wet | | *3330* | | *60* | *15-110* | | |
| *Surrogate: Terphenyl-d14* | *2540* | | µg/kg wet | | *3330* | | *76* | *30-130* | | |
| *Surrogate: 2,4,6-Tribromophenol* | *855* | | µg/kg wet | | *3330* | | *26* | *15-110* | | |
| **LCS (9090296-BS1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Acenaphthene | 3180 | | µg/kg wet | 165 | 3330 | | 95 | 40-130 | | |
| Acenaphthylene | 2860 | | µg/kg wet | 165 | 3330 | | 86 | 40-130 | | |
| Aniline | 1910 | | µg/kg wet | 330 | 3330 | | 57 | 40-130 | | |
| Anthracene | 2790 | | µg/kg wet | 165 | 3330 | | 84 | 40-130 | | |
| Atrazine | 3400 | | µg/kg wet | 330 | 3330 | | 102 | 40-130 | | |
| Azobenzene/Diphenyldiazine | 3070 | | µg/kg wet | 330 | 3330 | | 92 | 40-130 | | |
| Benzidine | 1510 | | µg/kg wet | 330 | 3330 | | 45 | 0-130 | | |
| Benzo (a) anthracene | 2730 | | µg/kg wet | 165 | 3330 | | 82 | 40-130 | | |
| Benzo (a) pyrene | 3010 | | µg/kg wet | 165 | 3330 | | 90 | 40-130 | | |
| Benzo (b) fluoranthene | 2980 | | µg/kg wet | 165 | 3330 | | 89 | 40-130 | | |
| Benzo (g,h,i) perylene | 3210 | | µg/kg wet | 165 | 3330 | | 96 | 40-130 | | |
| Benzo (k) fluoranthene | 3040 | | µg/kg wet | 165 | 3330 | | 91 | 40-130 | | |
| Benzoic acid | 397 | | µg/kg wet | 330 | 3330 | | 12 | 10-130 | | |
| Benzyl alcohol | 2860 | | µg/kg wet | 330 | 3330 | | 86 | 40-130 | | |
| Bis(2-chloroethoxy)methane | 2270 | | µg/kg wet | 330 | 3330 | | 68 | 40-130 | | |
| Bis(2-chloroethyl)ether | 2520 | | µg/kg wet | 330 | 3330 | | 76 | 40-130 | | |
| Bis(2-chloroisopropyl)ether | 2770 | | µg/kg wet | 330 | 3330 | | 83 | 40-130 | | |
| Bis(2-ethylhexyl)phthalate | 2840 | | µg/kg wet | 330 | 3330 | | 85 | 40-130 | | |
| 4-Bromophenyl phenyl ether | 2910 | | µg/kg wet | 330 | 3330 | | 87 | 40-130 | | |
| Butyl benzyl phthalate | 2560 | | µg/kg wet | 330 | 3330 | | 77 | 40-130 | | |
| Carbazole | 2630 | | µg/kg wet | 330 | 3330 | | 79 | 40-130 | | |
| 4-Chloro-3-methylphenol | 2580 | | µg/kg wet | 330 | 3330 | | 77 | 40-130 | | |
| 4-Chloroaniline | 2170 | | µg/kg wet | 330 | 3330 | | 65 | 40-130 | | |
| 2-Chloronaphthalene | 2720 | | µg/kg wet | 330 | 3330 | | 82 | 40-130 | | |
| 2-Chlorophenol | 2370 | | µg/kg wet | 330 | 3330 | | 71 | 40-130 | | |
| 4-Chlorophenyl phenyl ether | 3180 | | µg/kg wet | 330 | 3330 | | 95 | 40-130 | | |
| Chrysene | 2850 | | µg/kg wet | 165 | 3330 | | 85 | 40-130 | | |
| Dibenzo (a,h) anthracene | 3690 | | µg/kg wet | 165 | 3330 | | 111 | 40-130 | | |
| Dibenzofuran | 2980 | | µg/kg wet | 330 | 3330 | | 89 | 40-130 | | |
| 1,2-Dichlorobenzene | 2450 | | µg/kg wet | 330 | 3330 | | 74 | 40-130 | | |
| 1,3-Dichlorobenzene | 1980 | | µg/kg wet | 330 | 3330 | | 59 | 40-130 | | |
| 1,4-Dichlorobenzene | 2670 | | µg/kg wet | 330 | 3330 | | 80 | 40-130 | | |
| 3,3'-Dichlorobenzidine | 2550 | | µg/kg wet | 330 | 3330 | | 77 | 40-130 | | |
| 2,4-Dichlorophenol | 2760 | | µg/kg wet | 330 | 3330 | | 83 | 40-130 | | |
| Diethyl phthalate | 3470 | | µg/kg wet | 330 | 3330 | | 104 | 40-130 | | |

## Semivolatile Organic Compounds by GCMS - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090296 - SW846 3545A** | | | | | | | | | | |
| **LCS (9090296-BS1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Dimethyl phthalate | 3130 | | µg/kg wet | 330 | 3330 | | 94 | 40-130 | | |
| 2,4-Dimethylphenol | 2360 | | µg/kg wet | 330 | 3330 | | 71 | 40-130 | | |
| Di-n-butyl phthalate | 3100 | | µg/kg wet | 330 | 3330 | | 93 | 40-130 | | |
| 4,6-Dinitro-2-methylphenol | 953 | QC2 | µg/kg wet | 330 | 3330 | | 29 | 40-130 | | |
| 2,4-Dinitrophenol | 850 | QC2 | µg/kg wet | 330 | 3330 | | 26 | 40-130 | | |
| 2,4-Dinitrotoluene | 2990 | | µg/kg wet | 330 | 3330 | | 90 | 40-130 | | |
| 2,6-Dinitrotoluene | 2710 | | µg/kg wet | 330 | 3330 | | 81 | 40-130 | | |
| Di-n-octyl phthalate | 2950 | | µg/kg wet | 330 | 3330 | | 89 | 40-130 | | |
| Fluoranthene | 2840 | | µg/kg wet | 165 | 3330 | | 85 | 40-130 | | |
| Fluorene | 2960 | | µg/kg wet | 165 | 3330 | | 89 | 40-130 | | |
| Hexachlorobenzene | 2730 | | µg/kg wet | 330 | 3330 | | 82 | 40-130 | | |
| Hexachlorobutadiene | 2980 | | µg/kg wet | 330 | 3330 | | 90 | 40-130 | | |
| Hexachlorocyclopentadiene | 2150 | | µg/kg wet | 330 | 3330 | | 65 | 40-130 | | |
| Hexachloroethane | 2860 | | µg/kg wet | 330 | 3330 | | 86 | 40-130 | | |
| Indeno (1,2,3-cd) pyrene | 3510 | | µg/kg wet | 165 | 3330 | | 105 | 40-130 | | |
| Isophorone | 2220 | | µg/kg wet | 330 | 3330 | | 67 | 40-130 | | |
| 1-Methylnaphthalene | 2730 | | µg/kg wet | 165 | 3330 | | 82 | 40-140 | | |
| 2-Methylnaphthalene | 2790 | | µg/kg wet | 165 | 3330 | | 84 | 40-130 | | |
| 2-Methylphenol | 2290 | | µg/kg wet | 330 | 3330 | | 69 | 40-130 | | |
| 3 & 4-Methylphenol | 2480 | | µg/kg wet | 330 | 3330 | | 74 | 40-130 | | |
| Naphthalene | 2830 | | µg/kg wet | 165 | 3330 | | 85 | 40-130 | | |
| 2-Nitroaniline | 2730 | | µg/kg wet | 330 | 3330 | | 82 | 40-130 | | |
| 3-Nitroaniline | 2570 | | µg/kg wet | 330 | 3330 | | 77 | 40-130 | | |
| 4-Nitroaniline | 2630 | | µg/kg wet | 1320 | 3330 | | 79 | 40-130 | | |
| Nitrobenzene | 2750 | | µg/kg wet | 330 | 3330 | | 82 | 40-130 | | |
| 2-Nitrophenol | 2380 | | µg/kg wet | 330 | 3330 | | 71 | 40-130 | | |
| 4-Nitrophenol | 1830 | | µg/kg wet | 1320 | 3330 | | 55 | 40-130 | | |
| N-Nitrosodimethylamine | 1010 | QC2 | µg/kg wet | 330 | 3330 | | 30 | 40-130 | | |
| N-Nitrosodi-n-propylamine | 2430 | | µg/kg wet | 330 | 3330 | | 73 | 40-130 | | |
| N-Nitrosodiphenylamine | 2820 | | µg/kg wet | 330 | 3330 | | 85 | 40-130 | | |
| Pentachlorophenol | 1050 | QC2 | µg/kg wet | 330 | 3330 | | 32 | 40-130 | | |
| Phenanthrene | 2830 | | µg/kg wet | 165 | 3330 | | 85 | 40-130 | | |
| Phenol | 2260 | | µg/kg wet | 330 | 3330 | | 68 | 40-130 | | |
| Pyrene | 2570 | | µg/kg wet | 165 | 3330 | | 77 | 40-130 | | |
| Pyridine | 1410 | | µg/kg wet | 330 | 3330 | | 42 | 10-130 | | |
| 1,2,4-Trichlorobenzene | 2630 | | µg/kg wet | 330 | 3330 | | 79 | 40-130 | | |
| 2,4,5-Trichlorophenol | 2660 | | µg/kg wet | 330 | 3330 | | 80 | 40-130 | | |
| 2,4,6-Trichlorophenol | 2490 | | µg/kg wet | 330 | 3330 | | 75 | 40-130 | | |
| Pentachloronitrobenzene | 3700 | | µg/kg wet | 330 | 3330 | | 111 | 40-140 | | |
| 1,2,4,5-Tetrachlorobenzene | 2760 | | µg/kg wet | 330 | 3330 | | 83 | 40-140 | | |
| *Surrogate: 2-Fluorobiphenyl* | *2790* | | µg/kg wet | | *3330* | | *84* | *30-130* | | |
| *Surrogate: 2-Fluorophenol* | *1580* | | µg/kg wet | | *3330* | | *48* | *15-110* | | |
| *Surrogate: Nitrobenzene-d5* | *2600* | | µg/kg wet | | *3330* | | *78* | *30-130* | | |
| *Surrogate: Phenol-d5* | *2030* | | µg/kg wet | | *3330* | | *61* | *15-110* | | |
| *Surrogate: Terphenyl-dl4* | *2350* | | µg/kg wet | | *3330* | | *70* | *30-130* | | |
| *Surrogate: 2,4,6-Tribromophenol* | *2260* | | µg/kg wet | | *3330* | | *68* | *15-110* | | |

## Semivolatile Organic Compounds by GC - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9082129 - SW846 3510C** | | | | | | | | | | |
| **Blank (9082129-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| Aroclor-1016 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1016 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1221 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1221 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1232 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1232 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1242 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1242 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1248 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1248 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1254 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1254 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1260 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1260 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1262 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1262 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1268 | BRL | | µg/l | 0.200 | | | | | | |
| Aroclor-1268 [2C] | BRL | | µg/l | 0.200 | | | | | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)* | *0.153* | | µg/l | | *0.200* | | *76* | *30-150* | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2*: | *0.160* | | µg/l | | *0.200* | | *80* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr)* | *0.246* | | µg/l | | *0.200* | | *123* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr) [2C]* | *0.220* | | µg/l | | *0.200* | | *110* | *30-150* | | |
| **LCS (9082129-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| Aroclor-1016 | 2.49 | | µg/l | 0.200 | 2.50 | | 99 | 50-140 | | |
| Aroclor-1016 [2C] | 2.32 | | µg/l | 0.200 | 2.50 | | 93 | 50-140 | | |
| Aroclor-1260 | 2.55 | | µg/l | 0.200 | 2.50 | | 102 | 50-140 | | |
| Aroclor-1260 [2C] | 2.35 | | µg/l | 0.200 | 2.50 | | 94 | 50-140 | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)* | *0.135* | | µg/l | | *0.200* | | *68* | *30-150* | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2*: | *0.137* | | µg/l | | *0.200* | | *68* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr)* | *0.225* | | µg/l | | *0.200* | | *113* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr) [2C]* | *0.190* | | µg/l | | *0.200* | | *95* | *30-150* | | |
| **LCS Dup (9082129-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 31-Aug-09 | | | | | | | | | | |
| Aroclor-1016 | 2.43 | | µg/l | 0.200 | 2.50 | | 97 | 50-140 | 2 | 30 |
| Aroclor-1016 [2C] | 2.39 | | µg/l | 0.200 | 2.50 | | 95 | 50-140 | 3 | 30 |
| Aroclor-1260 | 2.47 | | µg/l | 0.200 | 2.50 | | 99 | 50-140 | 3 | 30 |
| Aroclor-1260 [2C] | 2.24 | | µg/l | 0.200 | 2.50 | | 90 | 50-140 | 5 | 30 |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)* | *0.133* | | µg/l | | *0.200* | | *66* | *30-150* | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2*: | *0.137* | | µg/l | | *0.200* | | *68* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr)* | *0.218* | | µg/l | | *0.200* | | *109* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr) [2C]* | *0.183* | | µg/l | | *0.200* | | *92* | *30-150* | | |
| **Batch 9090131 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090131-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| Aroclor-1016 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1016 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1221 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1221 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1232 | BRL | | µg/kg wet | 20.0 | | | | | | |

## Semivolatile Organic Compounds by GC - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090131 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090131-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 02-Sep-09 | | | | | | | | | | |
| Aroclor-1232 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1242 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1242 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1248 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1248 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1254 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1254 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1260 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1260 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1262 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1262 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1268 | BRL | | µg/kg wet | 20.0 | | | | | | |
| Aroclor-1268 [2C] | BRL | | µg/kg wet | 20.0 | | | | | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)* | *12.9* | | µg/kg wet | | *20.0* | | *64* | *30-150* | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2* | *11.1* | | µg/kg wet | | *20.0* | | *56* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr)* | *20.0* | | µg/kg wet | | *20.0* | | *100* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr) [2C]* | *16.9* | | µg/kg wet | | *20.0* | | *84* | *30-150* | | |
| **LCS (9090131-BS1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| Aroclor-1016 | 231 | | µg/kg wet | 20.0 | 250 | | 93 | 50-140 | | |
| Aroclor-1016 [2C] | 220 | | µg/kg wet | 20.0 | 250 | | 88 | 50-140 | | |
| Aroclor-1260 | 216 | | µg/kg wet | 20.0 | 250 | | 86 | 50-140 | | |
| Aroclor-1260 [2C] | 199 | | µg/kg wet | 20.0 | 250 | | 80 | 50-140 | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)* | *9.60* | | µg/kg wet | | *20.0* | | *48* | *30-150* | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2* | *9.80* | | µg/kg wet | | *20.0* | | *49* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr)* | *18.2* | | µg/kg wet | | *20.0* | | *91* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr) [2C]* | *15.8* | | µg/kg wet | | *20.0* | | *79* | *30-150* | | |
| **LCS Dup (9090131-BSD1)** | | | | | | | | | | |
| Prepared: 02-Sep-09 Analyzed: 03-Sep-09 | | | | | | | | | | |
| Aroclor-1016 | 229 | | µg/kg wet | 20.0 | 250 | | 91 | 50-140 | 1 | 30 |
| Aroclor-1016 [2C] | 224 | | µg/kg wet | 20.0 | 250 | | 89 | 50-140 | 2 | 30 |
| Aroclor-1260 | 211 | | µg/kg wet | 20.0 | 250 | | 84 | 50-140 | 2 | 30 |
| Aroclor-1260 [2C] | 187 | | µg/kg wet | 20.0 | 250 | | 75 | 50-140 | 6 | 30 |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)* | *9.60* | | µg/kg wet | | *20.0* | | *48* | *30-150* | | |
| *Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2* | *9.80* | | µg/kg wet | | *20.0* | | *49* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr)* | *17.6* | | µg/kg wet | | *20.0* | | *88* | *30-150* | | |
| *Surrogate: Decachlorobiphenyl (Sr) [2C]* | *14.8* | | µg/kg wet | | *20.0* | | *74* | *30-150* | | |

## Extractable Petroleum Hydrocarbons - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090008 - SW846 3510C** | | | | | | | | | | |
| **Blank (9090008-BLK1)** | | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| Gasoline | BRL | | mg/l | 0.05 | | | | | | |
| Fuel Oil #2 | BRL | | mg/l | 0.05 | | | | | | |
| Fuel Oil #4 | BRL | | mg/l | 0.05 | | | | | | |
| Fuel Oil #6 | BRL | | mg/l | 0.05 | | | | | | |
| Motor Oil | BRL | | mg/l | 0.05 | | | | | | |
| Aviation Fuel | BRL | | mg/l | 0.05 | | | | | | |
| Unidentified | BRL | | mg/l | 0.05 | | | | | | |
| Other Oil | BRL | | mg/l | 0.05 | | | | | | |
| Total Petroleum Hydrocarbons | BRL | | mg/l | 0.05 | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | BRL | | mg/l | 0.05 | | | | | | |
| *Surrogate: 1-Chlorooctadecane* | *0.0264* | | mg/l | | *0.0500* | | *53* | *50-150* | | |
| **LCS (9090008-BS1)** | | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | 1.3 | | mg/l | 0.05 | 1.40 | | 94 | 60-120 | | |
| *Surrogate: 1-Chlorooctadecane* | *0.0423* | | mg/l | | *0.0500* | | *85* | *50-150* | | |
| **Batch 9090295 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090295-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Gasoline | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #2 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #4 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #6 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Motor Oil | BRL | | mg/kg wet | 13.3 | | | | | | |
| Aviation Fuel | BRL | | mg/kg wet | 13.3 | | | | | | |
| Unidentified | BRL | | mg/kg wet | 13.3 | | | | | | |
| Other Oil | BRL | | mg/kg wet | 13.3 | | | | | | |
| Total Petroleum Hydrocarbons | BRL | | mg/kg wet | 13.3 | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg wet | 13.3 | | | | | | |
| *Surrogate: 1-Chlorooctadecane* | *3.72* | | mg/kg wet | | *3.33* | | *112* | *50-150* | | |
| **LCS (9090295-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | 79.9 | | mg/kg wet | 13.3 | 93.3 | | 86 | 60-120 | | |
| *Surrogate: 1-Chlorooctadecane* | *2.83* | | mg/kg wet | | *3.33* | | *85* | *50-150* | | |
| **Batch 9090301 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090301-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Gasoline | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #2 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #4 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #6 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Motor Oil | BRL | | mg/kg wet | 13.3 | | | | | | |
| Aviation Fuel | BRL | | mg/kg wet | 13.3 | | | | | | |
| Unidentified | BRL | | mg/kg wet | 13.3 | | | | | | |
| Other Oil | BRL | | mg/kg wet | 13.3 | | | | | | |
| Total Petroleum Hydrocarbons | BRL | | mg/kg wet | 13.3 | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg wet | 13.3 | | | | | | |
| *Surrogate: 1-Chlorooctadecane* | *3.26* | | mg/kg wet | | *3.33* | | *98* | *50-150* | | |

## Extractable Petroleum Hydrocarbons - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090301 - SW846 3545A** | | | | | | | | | | |
| **LCS (9090301-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | 82.7 | | mg/kg wet | 13.3 | 93.3 | | 89 | 60-120 | | |
| *Surrogate: 1-Chlorooctadecane* | *2.57* | | mg/kg wet | | *3.33* | | *77* | *50-150* | | |
| **Duplicate (9090301-DUP1)** | **Source: SB00047-01** | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| Gasoline | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Fuel Oil #2 | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Fuel Oil #4 | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Fuel Oil #6 | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Motor Oil | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Aviation Fuel | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Unidentified | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Other Oil | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| Total Petroleum Hydrocarbons | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg dry | 28.8 | | BRL | | | | 50 |
| *Surrogate: 1-Chlorooctadecane* | *2.84* | | mg/kg dry | | *3.60* | | *79* | *50-150* | | |
| **Matrix Spike (9090301-MS1)** | **Source: SB00047-01** | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | 103 | | mg/kg dry | 14.8 | 104 | BRL | 99 | 50-150 | | |
| *Surrogate: 1-Chlorooctadecane* | *2.87* | | mg/kg dry | | *3.72* | | *77* | *50-150* | | |
| **Matrix Spike Dup (9090301-MSD1)** | **Source: SB00047-01** | | | | | | | | | |
| Prepared & Analyzed: 04-Sep-09 | | | | | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | 82.5 | | mg/kg dry | 14.5 | 102 | BRL | 81 | 50-150 | 20 | 30 |
| *Surrogate: 1-Chlorooctadecane* | *2.41* | | mg/kg dry | | *3.63* | | *66* | *50-150* | | |
| **Batch 9090410 - SW846 3545A** | | | | | | | | | | |
| **Blank (9090410-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| Gasoline | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #2 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #4 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Fuel Oil #6 | BRL | | mg/kg wet | 13.3 | | | | | | |
| Motor Oil | BRL | | mg/kg wet | 13.3 | | | | | | |
| Aviation Fuel | BRL | | mg/kg wet | 13.3 | | | | | | |
| Unidentified | BRL | | mg/kg wet | 13.3 | | | | | | |
| Other Oil | BRL | | mg/kg wet | 13.3 | | | | | | |
| Total Petroleum Hydrocarbons | BRL | | mg/kg wet | 13.3 | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | BRL | | mg/kg wet | 13.3 | | | | | | |
| *Surrogate: 1-Chlorooctadecane* | *3.00* | | mg/kg wet | | *3.33* | | *90* | *50-150* | | |
| **LCS (9090410-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 08-Sep-09 | | | | | | | | | | |
| C9-C36 Aliphatic Hydrocarbons | 88.1 | | mg/kg wet | 13.3 | 93.3 | | 94 | 60-120 | | |
| *Surrogate: 1-Chlorooctadecane* | *2.37* | | mg/kg wet | | *3.33* | | *71* | *50-150* | | |

## 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 9090244 - SW846 3050B** | | | | | | | | | | |
| **Blank (9090244-BLK1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Selenium | BRL | | mg/kg wet | 1.46 | | | | | | |
| Lead | BRL | | mg/kg wet | 1.46 | | | | | | |
| Chromium | BRL | | mg/kg wet | 0.974 | | | | | | |
| Arsenic | BRL | | mg/kg wet | 1.46 | | | | | | |
| Silver | BRL | | mg/kg wet | 1.46 | | | | | | |
| Cadmium | BRL | | mg/kg wet | 0.487 | | | | | | |
| Barium | BRL | | mg/kg wet | 0.974 | | | | | | |
| **LCS (9090244-BS1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Lead | 128 | | mg/kg wet | 1.50 | 125 | | 103 | 85-115 | | |
| Selenium | 112 | | mg/kg wet | 1.50 | 125 | | 90 | 85-115 | | |
| Arsenic | 113 | | mg/kg wet | 1.50 | 125 | | 90 | 85-115 | | |
| Chromium | 136 | | mg/kg wet | 1.00 | 125 | | 109 | 85-115 | | |
| Silver | 129 | | mg/kg wet | 1.50 | 125 | | 103 | 85-115 | | |
| Cadmium | 131 | | mg/kg wet | 0.500 | 125 | | 105 | 85-115 | | |
| Barium | 132 | | mg/kg wet | 1.00 | 125 | | 105 | 85-115 | | |
| **LCS Dup (9090244-BSD1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Selenium | 110 | | mg/kg wet | 1.50 | 125 | | 88 | 85-115 | 3 | 20 |
| Lead | 127 | | mg/kg wet | 1.50 | 125 | | 101 | 85-115 | 2 | 20 |
| Chromium | 135 | | mg/kg wet | 1.00 | 125 | | 108 | 85-115 | 1 | 20 |
| Silver | 127 | | mg/kg wet | 1.50 | 125 | | 102 | 85-115 | 2 | 20 |
| Cadmium | 129 | | mg/kg wet | 0.500 | 125 | | 103 | 85-115 | 2 | 20 |
| Arsenic | 111 | | mg/kg wet | 1.50 | 125 | | 88 | 85-115 | 2 | 20 |
| Barium | 130 | | mg/kg wet | 1.00 | 125 | | 104 | 85-115 | 1 | 20 |
| **Duplicate (9090244-DUP1)** **Source: SB00047-04** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Lead | 8.63 | QR6 | mg/kg dry | 1.72 | | 6.06 | | | 35 | 20 |
| Selenium | BRL | | mg/kg dry | 1.72 | | BRL | | | | 20 |
| Silver | BRL | | mg/kg dry | 1.72 | | BRL | | | | 20 |
| Arsenic | 3.72 | | mg/kg dry | 1.72 | | 4.21 | | | 12 | 20 |
| Chromium | 25.6 | | mg/kg dry | 1.15 | | 24.8 | | | 3 | 20 |
| Cadmium | 0.144 | J | mg/kg dry | 0.575 | | BRL | | | | 20 |
| Barium | 154 | | mg/kg dry | 1.15 | | 165 | | | 6 | 20 |
| **Matrix Spike (9090244-MS1)** **Source: SB00047-05** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Lead | 134 | | mg/kg dry | 1.63 | 136 | 7.05 | 94 | 75-125 | | |
| Selenium | 113 | | mg/kg dry | 1.63 | 136 | 0.465 | 83 | 75-125 | | |
| Cadmium | 130 | | mg/kg dry | 0.543 | 136 | BRL | 96 | 75-125 | | |
| Chromium | 165 | | mg/kg dry | 1.09 | 136 | 17.3 | 109 | 75-125 | | |
| Arsenic | 119 | | mg/kg dry | 1.63 | 136 | 2.88 | 86 | 75-125 | | |
| Silver | 135 | | mg/kg dry | 1.63 | 136 | BRL | 100 | 75-125 | | |
| Barium | 271 | | mg/kg dry | 1.09 | 136 | 136 | 100 | 75-125 | | |
| **Matrix Spike Dup (9090244-MSD1)** **Source: SB00047-05** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Lead | 126 | | mg/kg dry | 1.51 | 126 | 7.05 | 95 | 75-125 | 6 | 20 |
| Selenium | 106 | | mg/kg dry | 1.51 | 126 | 0.465 | 84 | 75-125 | 6 | 20 |

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

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090244 - SW846 3050B** | | | | | | | | | | |
| **Matrix Spike Dup (9090244-MSD1)** | **Source: SB00047-05** | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Silver | 127 | | mg/kg dry | 1.51 | 126 | BRL | 101 | 75-125 | 6 | 20 |
| Chromium | 154 | | mg/kg dry | 1.01 | 126 | 17.3 | 109 | 75-125 | 7 | 20 |
| Cadmium | 123 | | mg/kg dry | 0.504 | 126 | BRL | 98 | 75-125 | 6 | 20 |
| Arsenic | 113 | | mg/kg dry | 1.51 | 126 | 2.88 | 87 | 75-125 | 6 | 20 |
| Barium | 270 | | mg/kg dry | 1.01 | 126 | 136 | 106 | 75-125 | 0.4 | 20 |
| **Post Spike (9090244-PS1)** | **Source: SB00047-05** | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Selenium | 122 | | mg/kg dry | 1.68 | 140 | 0.465 | 86 | 80-120 | | |
| Lead | 141 | | mg/kg dry | 1.68 | 140 | 7.05 | 96 | 80-120 | | |
| Cadmium | 140 | | mg/kg dry | 0.561 | 140 | BRL | 100 | 80-120 | | |
| Chromium | 164 | | mg/kg dry | 1.12 | 140 | 17.3 | 105 | 80-120 | | |
| Silver | 144 | | mg/kg dry | 1.68 | 140 | BRL | 102 | 80-120 | | |
| Arsenic | 127 | | mg/kg dry | 1.68 | 140 | 2.88 | 89 | 80-120 | | |
| Barium | 267 | | mg/kg dry | 1.12 | 140 | 136 | 93 | 80-120 | | |
| **Reference (9090244-SRM1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Lead | 49.0 | | mg/kg wet | 1.50 | 52.8 | | 93 | 79-121.2 | | |
| Selenium | 86.5 | | mg/kg wet | 1.50 | 97.6 | | 89 | 80.2-119.8 | | |
| Cadmium | 44.5 | | mg/kg wet | 0.500 | 46.2 | | 96 | 81.4-118.7 | | |
| Arsenic | 41.6 | | mg/kg wet | 1.50 | 44.9 | | 93 | 78.1-122.3 | | |
| Silver | 39.3 | | mg/kg wet | 1.50 | 38.8 | | 101 | 66.2-133.5 | | |
| Chromium | 75.0 | | mg/kg wet | 1.00 | 73.2 | | 102 | 80.6-119.4 | | |
| Barium | 214 | | mg/kg wet | 1.00 | 219 | | 98 | 81.3-118.8 | | |
| **Reference (9090244-SRM2)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 05-Sep-09 | | | | | | | | | | |
| Lead | 58.4 | | mg/kg wet | 1.50 | 53.5 | | 109 | 79-121.2 | | |
| Selenium | 87.2 | | mg/kg wet | 1.50 | 98.7 | | 88 | 80.2-119.8 | | |
| Arsenic | 41.7 | | mg/kg wet | 1.50 | 45.4 | | 92 | 78.1-122.3 | | |
| Silver | 39.3 | | mg/kg wet | 1.50 | 39.3 | | 100 | 66.2-133.5 | | |
| Cadmium | 46.7 | | mg/kg wet | 0.500 | 46.8 | | 100 | 81.4-118.7 | | |
| Chromium | 77.2 | | mg/kg wet | 1.00 | 74.0 | | 104 | 80.6-119.4 | | |
| Barium | 219 | | mg/kg wet | 1.00 | 222 | | 99 | 81.3-118.8 | | |
| **Batch 9090245 - EPA200/SW7000 Series** | | | | | | | | | | |
| **Blank (9090245-BLK1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Mercury | BRL | | mg/kg wet | 0.0285 | | | | | | |
| **Duplicate (9090245-DUP1)** | **Source: SB00047-04** | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Mercury | 0.0105 | J | mg/kg dry | 0.0351 | | 0.0098 | | | 8 | 20 |
| **Matrix Spike (9090245-MS1)** | **Source: SB00047-05** | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Mercury | 0.550 | | mg/kg dry | 0.0327 | 0.454 | 0.0099 | 119 | 75-125 | | |
| **Matrix Spike Dup (9090245-MSD1)** | **Source: SB00047-05** | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Mercury | 0.573 | | mg/kg dry | 0.0353 | 0.491 | 0.0099 | 115 | 75-125 | 4 | 20 |

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

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090245 - EPA200/SW7000 Series** | | | | | | | | | | |
| **Reference (9090245-SRM1)** | | | | | | | | | | |
| Prepared: 03-Sep-09 Analyzed: 04-Sep-09 | | | | | | | | | | |
| Mercury | 1.82 | | mg/kg wet | 0.0300 | 1.71 | | 106 | 71.8-128.2 | | |
| **Batch 9090312 - EPA 200 Series** | | | | | | | | | | |
| **Blank (9090312-BLK1)** | | | | | | | | | | |
| Prepared: 08-Sep-09 Analyzed: 09-Sep-09 | | | | | | | | | | |
| Lead | BRL | | mg/l | 0.0075 | | | | | | |
| Selenium | BRL | | mg/l | 0.0150 | | | | | | |
| Chromium | BRL | | mg/l | 0.0050 | | | | | | |
| Arsenic | BRL | | mg/l | 0.0040 | | | | | | |
| Cadmium | BRL | | mg/l | 0.0025 | | | | | | |
| Barium | BRL | | mg/l | 0.0050 | | | | | | |
| Silver | BRL | | mg/l | 0.0050 | | | | | | |
| **LCS (9090312-BS1)** | | | | | | | | | | |
| Prepared: 08-Sep-09 Analyzed: 09-Sep-09 | | | | | | | | | | |
| Selenium | 1.29 | | mg/l | 0.0150 | 1.25 | | 103 | 85-115 | | |
| Lead | 1.28 | | mg/l | 0.0075 | 1.25 | | 103 | 85-115 | | |
| Silver | 1.28 | | mg/l | 0.0050 | 1.25 | | 103 | 85-115 | | |
| Chromium | 1.31 | | mg/l | 0.0050 | 1.25 | | 105 | 85-115 | | |
| Arsenic | 1.23 | | mg/l | 0.0040 | 1.25 | | 98 | 85-115 | | |
| Barium | 1.30 | | mg/l | 0.0050 | 1.25 | | 104 | 85-115 | | |
| Cadmium | 1.32 | | mg/l | 0.0025 | 1.25 | | 106 | 85-115 | | |
| **LCS Dup (9090312-BSD1)** | | | | | | | | | | |
| Prepared: 08-Sep-09 Analyzed: 09-Sep-09 | | | | | | | | | | |
| Lead | 1.29 | | mg/l | 0.0075 | 1.25 | | 103 | 85-115 | 0.5 | 20 |
| Selenium | 1.30 | | mg/l | 0.0150 | 1.25 | | 104 | 85-115 | 0.7 | 20 |
| Silver | 1.30 | | mg/l | 0.0050 | 1.25 | | 104 | 85-115 | 0.9 | 20 |
| Barium | 1.32 | | mg/l | 0.0050 | 1.25 | | 106 | 85-115 | 2 | 20 |
| Chromium | 1.33 | | mg/l | 0.0050 | 1.25 | | 106 | 85-115 | 0.9 | 20 |
| Cadmium | 1.33 | | mg/l | 0.0025 | 1.25 | | 106 | 85-115 | 0.6 | 20 |
| Arsenic | 1.23 | | mg/l | 0.0040 | 1.25 | | 98 | 85-115 | 0.3 | 20 |

## Total Metals by EPA 200 Series Methods - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090313 - EPA200/SW7000 Series** | | | | | | | | | | |
| **Blank (9090313-BLK1)** | | | | | | | | | | |
| Prepared: 08-Sep-09 Analyzed: 09-Sep-09 | | | | | | | | | | |
| Mercury | BRL | | mg/l | 0.00020 | | | | | | |
| **LCS (9090313-BS1)** | | | | | | | | | | |
| Prepared: 08-Sep-09 Analyzed: 09-Sep-09 | | | | | | | | | | |
| Mercury | 0.00473 | | mg/l | 0.00020 | 0.00500 | | 95 | 85-115 | | |

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

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090010 - SW846 3050B** | | | | | | | | | | |
| **Blank (9090010-BLK1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Selenium | BRL | | mg/l | 0.0300 | | | | | | |
| Lead | BRL | | mg/l | 0.0150 | | | | | | |
| Cadmium | BRL | | mg/l | 0.0050 | | | | | | |
| Silver | BRL | | mg/l | 0.0100 | | | | | | |
| Arsenic | BRL | | mg/l | 0.0080 | | | | | | |
| Chromium | BRL | | mg/l | 0.0100 | | | | | | |
| Barium | BRL | | mg/l | 0.0100 | | | | | | |
| **LCS (9090010-BS1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Lead | 2.57 | | mg/l | 0.0150 | 2.50 | | 103 | 85-115 | | |
| Selenium | 2.44 | | mg/l | 0.0300 | 2.50 | | 98 | 85-115 | | |
| Silver | 2.58 | | mg/l | 0.0100 | 2.50 | | 103 | 85-115 | | |
| Chromium | 2.70 | | mg/l | 0.0100 | 2.50 | | 108 | 85-115 | | |
| Cadmium | 2.67 | | mg/l | 0.0050 | 2.50 | | 107 | 85-115 | | |
| Arsenic | 2.40 | | mg/l | 0.0080 | 2.50 | | 96 | 85-115 | | |
| Barium | 2.79 | | mg/l | 0.0100 | 2.50 | | 111 | 85-115 | | |
| **LCS Dup (9090010-BSD1)** | | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Lead | 2.57 | | mg/l | 0.0150 | 2.50 | | 103 | 85-115 | 0.2 | 20 |
| Selenium | 2.42 | | mg/l | 0.0300 | 2.50 | | 97 | 85-115 | 0.8 | 20 |
| Cadmium | 2.66 | | mg/l | 0.0050 | 2.50 | | 106 | 85-115 | 0.4 | 20 |
| Silver | 2.55 | | mg/l | 0.0100 | 2.50 | | 102 | 85-115 | 0.9 | 20 |
| Arsenic | 2.38 | | mg/l | 0.0080 | 2.50 | | 95 | 85-115 | 0.9 | 20 |
| Chromium | 2.67 | | mg/l | 0.0100 | 2.50 | | 107 | 85-115 | 1 | 20 |
| Barium | 2.78 | | mg/l | 0.0100 | 2.50 | | 111 | 85-115 | 0.3 | 20 |
| **Duplicate (9090010-DUP1)** | **Source: SB00047-19** | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Selenium | BRL | | mg/l | 0.0300 | | BRL | | | | 20 |
| Lead | 0.0339 | | mg/l | 0.0150 | | 0.0361 | | | 6 | 20 |
| Cadmium | 0.0010 | J,QR8 | mg/l | 0.0050 | | 0.0025 | | | 86 | 20 |
| Silver | BRL | | mg/l | 0.0100 | | BRL | | | | 20 |
| Arsenic | 0.0057 | J | mg/l | 0.0080 | | 0.0066 | | | 15 | 20 |
| Chromium | 0.0080 | J | mg/l | 0.0100 | | 0.0076 | | | 5 | 20 |
| Barium | 0.0571 | | mg/l | 0.0100 | | 0.0623 | | | 9 | 20 |
| **Matrix Spike (9090010-MS1)** | **Source: SB00047-07** | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Lead | 2.56 | | mg/l | 0.0150 | 2.50 | 0.0082 | 102 | 75-125 | | |
| Selenium | 2.47 | | mg/l | 0.0300 | 2.50 | BRL | 99 | 75-125 | | |
| Silver | 2.58 | | mg/l | 0.0100 | 2.50 | BRL | 103 | 75-125 | | |
| Cadmium | 2.66 | | mg/l | 0.0050 | 2.50 | 0.0006 | 106 | 75-125 | | |
| Arsenic | 2.44 | | mg/l | 0.0080 | 2.50 | BRL | 97 | 75-125 | | |
| Chromium | 2.69 | | mg/l | 0.0100 | 2.50 | 0.0167 | 107 | 75-125 | | |
| Barium | 2.94 | | mg/l | 0.0100 | 2.50 | 0.153 | 111 | 75-125 | | |
| **Matrix Spike Dup (9090010-MSD1)** | **Source: SB00047-07** | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Lead | 2.59 | | mg/l | 0.0150 | 2.50 | 0.0082 | 103 | 75-125 | 1 | 20 |
| Selenium | 2.48 | | mg/l | 0.0300 | 2.50 | BRL | 99 | 75-125 | 0.5 | 20 |

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

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9090010 - SW846 3050B** | | | | | | | | | | |
| **Matrix Spike Dup (9090010-MSD1)** | **Source: SB00047-07** | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Chromium | 2.72 | | mg/l | 0.0100 | 2.50 | 0.0167 | 108 | 75-125 | 1 | 20 |
| Silver | 2.60 | | mg/l | 0.0100 | 2.50 | BRL | 104 | 75-125 | 1 | 20 |
| Arsenic | 2.45 | | mg/l | 0.0080 | 2.50 | BRL | 98 | 75-125 | 0.5 | 20 |
| Cadmium | 2.68 | | mg/l | 0.0050 | 2.50 | 0.0006 | 107 | 75-125 | 0.8 | 20 |
| Barium | 2.94 | | mg/l | 0.0100 | 2.50 | 0.153 | 111 | 75-125 | 0 | 20 |
| **Post Spike (9090010-PS1)** | **Source: SB00047-07** | | | | | | | | | |
| Prepared & Analyzed: 01-Sep-09 | | | | | | | | | | |
| Lead | 2.60 | | mg/l | 0.0150 | 2.50 | 0.0082 | 104 | 75-125 | | |
| Selenium | 2.50 | | mg/l | 0.0300 | 2.50 | BRL | 100 | 75-125 | | |
| Chromium | 2.66 | | mg/l | 0.0100 | 2.50 | 0.0167 | 106 | 75-125 | | |
| Silver | 2.57 | | mg/l | 0.0100 | 2.50 | BRL | 103 | 75-125 | | |
| Cadmium | 2.69 | | mg/l | 0.0050 | 2.50 | 0.0006 | 108 | 75-125 | | |
| Arsenic | 2.47 | | mg/l | 0.0080 | 2.50 | BRL | 99 | 75-125 | | |
| Barium | 2.96 | | mg/l | 0.0100 | 2.50 | 0.153 | 112 | 75-125 | | |
| **Batch 9090011 - EPA200/SW7000 Series** | | | | | | | | | | |
| **Blank (9090011-BLK1)** | | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| Mercury | BRL | | mg/l | 0.00020 | | | | | | |
| **LCS (9090011-BS1)** | | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| Mercury | 0.00433 | | mg/l | 0.00020 | 0.00500 | | 87 | 56.1-122 | | |
| **Duplicate (9090011-DUP1)** | **Source: SB00047-19** | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| Mercury | BRL | | mg/l | 0.00020 | | BRL | | | | 20 |
| **Matrix Spike (9090011-MS1)** | **Source: SB00047-07** | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| Mercury | 0.00494 | | mg/l | 0.00020 | 0.00500 | BRL | 99 | 59.8-119 | | |
| **Matrix Spike Dup (9090011-MSD1)** | **Source: SB00047-07** | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| Mercury | 0.00519 | | mg/l | 0.00020 | 0.00500 | BRL | 104 | 59.8-119 | 5 | 20 |
| **Post Spike (9090011-PS1)** | **Source: SB00047-07** | | | | | | | | | |
| Prepared: 01-Sep-09 Analyzed: 02-Sep-09 | | | | | | | | | | |
| Mercury | 0.00502 | | mg/l | 0.00020 | 0.00500 | BRL | 100 | 72.4-113 | | |

## Notes and Definitions

| | |
|---|---|
| CAL1 | Analyte quantified by quadratic equation type calibration. |
| CAL2 | Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria |
| E | The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag). |
| GS | This sample was not able to be analyzed for low level reporting limits due to high concentrations of other target analytes in the sample. |
| QC2 | Analyte out of acceptance range in QC spike but no reportable concentration present in sample. |
| QM9 | The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits. |
| QR2 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| QR5 | RPD out of acceptance range. |
| QR6 | The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD. |
| QR8 | Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit. |
| R05 | Elevated Reporting Limits due to the presence of high levels of non-target analytes. |
| V11 | Data confirmed with duplicate analysis. |
| Z-2 | Surrogate recovery outside of control limits. Sample data may be biased low. Insufficient sample available to reextract and reanalyze. |
| BRL | Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit |
| dry | Sample results reported on a dry weight basis |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| J | Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). |

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Interpretation of Total Petroleum Hydrocarbon Report

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

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

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

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

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

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

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

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

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

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

Validated by:
Hanibal C. Tayeh, Ph.D.
Kim Wisk
Nicole Leja
Rebecca Merz

## Reasonable Confidence Protocols
## Laboratory Analysis
## QA/QC Certification Form

| | | | |
|---|---|---|---|
| **Laboratory Name:** | Spectrum Analytical, Inc. - Agawam, MA | **Client:** | Tetra Tech Rizzo - Hartford, CT |
| **Project Location:** | 142 Willard Ave - Newington, CT | **Project Number:** | 127-17797-09011 |
| **Sampling Date(s):** | 27-Aug-09 | **Laboratory Sample ID(s):** | SB00047-01 through SB00047-22 |

**RCP Methods Used:** +CT ETPH; EPA 245.1/7470A; SW846 1312; SW846 1312/6010B; SW846 1312/7470A; SW846 6010B; SW846 7471A; SW846 8082; SW846 8260B; SW846 8270C

| | | |
|---|---|---|
| 1 | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents? | ☑ Yes ☐ No |
| 1A | Were the method specified preservation and holding time requirements met? | ☑ Yes ☐ No |
| 1B | ***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * <br>* *These methods have not yet been approved for release by CT DEP* | ☐ Yes ☐ No <br>☑ N/A |
| 2 | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)? | ☑ Yes ☐ No |
| 3 | Were samples received at an appropriate temperature? | ☑ Yes ☐ No <br>☐ N/A |
| 4 | Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? | ☐ Yes ☑ No |
| 5 | a) Were reporting limits specified or referenced on the chain-of-custody? * <br>b) Were these reporting limits met? * *Exceptions are defined by qualifiers* | ☑ Yes ☐ No <br>☑ Yes ☐ No |
| 6 | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents? | ☐ Yes ☑ No |
| 7 | Are project-specific matrix spikes and laboratory duplicates included in this data set? | ☑ Yes ☐ No |

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

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 9/15/2009

SB00047 E4

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

Page 1 of 3

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

Report To: Tetra Tech Rizzo, Inc.
150 Trumbull Street, 4th Fl.
Hartford, CT 06103-2428

Project Mgr.: Joe Perko

Invoice To: → SAME

P.O. No.: _____ RQN: DAS

Project No.: 127-17797-09011
Site Name: 142 Willard Ave
Location: Newington State: CT
Sampler(s): Joe Perko

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=D.I. $H_2O$ 10=_____

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 | Preservative | # of VOA Vials | # of Amber Glass | # of Clear Glass | # of Plastic | VOCs by 5035/8260 | VOCs by 8260 | CT ETPH | Total RCRA 8 metals | SVOCs by 8270 | PCBs by 8082 | SPLP RCRA 8 metals | | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AD 04701 | RSB-10 (6-8') | 8/27/09 | 08:30 | G | SO | 7,9 | 3 | 2 | | | X | X | X | X | | | | | - Please provide |
| AD 02 | ↓ ($H_2O$) | ↓ | 08:45 | ↓ | GW | 2,4 | 3 | 3 | | 1 | ↓ | ↓ | ↓ | ↓ | X | X | X | | CT DEP RCP |
| AD 03 | RSB-11 (1-4') | ↓ | 09:10 | ↓ | SO | 7,9 | 3 | 2 | | | ↓ | ↓ | ↓ | ↓ | | | | | Report and meet |
| AD 04 | RSB-12 (5-8') | ↓ | 09:20 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ | | | | | CT Standards |
| AD 05 | RSB-6 (3-6') | ↓ | 09:40 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ | | | | | |
| AD 06 | RSB-7 (4-6') | ↓ | 09:55 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ | | | | | |
| AD 07 | RSB-8 (5.5-7') | ↓ | 10:15 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ | X | X | X | | |
| AD 08 | RSB-9 (1.5-4') | ↓ | 10:50 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ | | | | | |
| AD 09 | RSB-1 (6.5-8') | ↓ | 11:20 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ | | | | | |
| AD 10 | RSB-2 (6-8') | ↓ | 11:30 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | ↓ | X | X | | | |

| Relinquished by: | Received by: | Date: | Time: |
|---|---|---|---|
| Joseph T. Perko III | [signature] | 8/28/09 | 1530 |
| (4°) | [signature] | 8/28/09 | 1834 |

☐ Fax results when available to (____) _____
☐ E-mail results when available to _____
Condition upon Receipt: ☐ Iced ☐ Ambient ☐ (4°) °C
joseph.perko@tetratech.com

SB00047 Ey

SPECTRUM ANALYTICAL, INC.
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HANTRAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

Page 2 of 3

**Special Handling:**
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Project Mgr.: Joe Perko

Invoice To: → SAME

P.O. No.: _____ RQN: DAS

Project No.: 127-17797-09011
Site Name: 142 Willard Ave
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Sampler(s): Joe Perko

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=DI $H_2O$ 10=_____

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 | Preservative | # of VOA Vials | # of Amber Glass | # of Clear Glass | # of Plastic | VOCs by 5035/8260 | VOCs by 8260 | CT EPH | Total RCRA 8 metals | SVOCs by 8270 | PCBs by 8082 | SPLP RCRA 8 metals | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00047-11 AD | RSB-5 (2-4') | 8/27/09 | 11:45 | G | SO | 7,9 | 3 | 2 | | | X | X | X | | | | | - Please Provide |
| AD 12 | RSB-4 (5-7') | ↓ | 12:40 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | X | X | | | CT DEP RCP, |
| AD 13 + | RSB-3 (3-5') | ↓ | 13:10 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | | | | | Report and meet |
| AD 14 | RSB-13 (4-6') | ↓ | 13:25 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | X | | | | CT Standards |
| AD 15 | ↓ ($H_2O$) | ↓ | 13:30 | ↓ | GW | 2,4 | 3 | 3 | | 1 | ↓ | ↓ | ↓ | X | X | [illegible] | | |
| AD 16 | RSB-14 (6-8') | ↓ | 13:40 | ↓ | SO | 7,9 | 3 | 2 | | | ↓ | ↓ | ↓ | [illegible] | X | | | + Please HOLD |
| AD 17 | ↓ ($H_2O$) | ↓ | 13:45 | ↓ | GW | 2,4 | 3 | 3 | | 1 | ↓ | ↓ | ↓ | X | X | [illegible] | | |
| AD 18 + | RSB-15 (1-3') | ↓ | 13:50 | ↓ | SO | 7,9 | 3 | 2 | | | ↓ | ↓ | ↓ | | | | | |
| AD 19 | RSB-16 (6-7.5') | ↓ | 14:30 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | X | X | X | | |
| AD 20 | Duplicate | ↓ | 00:00 | ↓ | ↓ | ↓ | ↓ | ↓ | | | ↓ | ↓ | ↓ | | | | | |

| Relinquished by: | Received by: | Date: | Time: |
|---|---|---|---|
| Joseph T. Perko III | [illegible] | 8/28/09 | 1350 |
| | Bill Hartig (4°) | 8/28/09 | 1834 |

☐ Fax results when available to (____) _____
☐ E-mail results when available to _____
Condition upon Receipt: ☐ Iced ☐ Ambient ☐ (4°)
Joseph.Perko@tetratech.com

SB00047 EY

SPECTRUM ANALYTICAL, INC.
Featuring
HANDBAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

Page 3 of 3

**Special Handling:**
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150 Trumbull Street, 4th Fl.
Hartford, CT 06103-2428

Project Mgr.: Joe Perko

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P.O. No.: _____ RQN: DAS

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08047-21 | Duplicate | 8/27/09 | 00:00 | G | GW | 2,4 | 3 | 3 | | 1 | X | X | X | X | X | ~~X~~ | | - Please Provide |
| AD ↓ 22 | Trip Blank | ↓ | 10:20 | ↓ | | 2 | 1 | | | | X | | | | | | | CT DEP RCP |
| AD | | | | | | | | | | | | | | | | | | Report and |
| AD | | | | | | | | | | | | | | | | | | Meet CT Standards |
| AD | | | | | | | | | | | | | | | | | | |
| AD | | | | | | | | | | | | | | | | | | |
| AD | | | | | | | | | | | | | | | | | | |
| AD | | | | | | | | | | | | | | | | | | |
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| AD | | | | | | | | | | | | | | | | | | |

| Relinquished by: | Received by: | Date: | Time: |
|---|---|---|---|
| Joseph T. Perko III | [signature] | 8/26/09 | 1550 |
| | [signature] (4°) | 8/28/09 | 1834 |

☐ Fax results when available to (____)
☐ E-mail results when available to
Condition upon Receipt: ☐ Iced ☑ Ambient ☐ 4°C
Joseph.Perko@tetratech.com

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com