CONESTOGA-ROVERS & ASSOCIATES

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# TRANSMITTAL

DATE: May 19, 2015

REFERENCE NO.: 240503

PROJECT NAME: 6039 College Avenue, Oakland

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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| 1 | Subsurface Investigation Report |
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**COMMENTS:**

If you have any questions regarding the content of this document, please call the CRA project manager Peter Schaefer at (510) 420-3319 or the Shell program manager Perry Pineda at (425) 413-1164.

Copy to: Perry Pineda, Shell Oil Products US (electronic copy)

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Montrose Investment Co. (property owner), Attn: Jim Graham, 242 Rivera Circle, Greenbrae Marina, Larkspur, CA 94939

Clint Mercer (previous lessee), SC Fuels, 1800 West Katella Avenue, Orange, CA 92867

Mike Ahmadi (lessee), Petromart Retail Group, Inc., 587 Ygnacio Valley Road, Walnut Creek, CA 94596

Completed by: Peter Schaefer Signed: Peter Schaefer

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Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: 6039 College Avenue
Oakland, California
SAP Code 135685
Incident No. 98995745
ACEH Case No. RO0000469

**RECEIVED**
*By Alameda County Environmental Health 3:48 pm, May 28, 2015*

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (425) 413-1164 with any questions or concerns.

Sincerely,
Shell Oil Products US

Perry Pineda
Senior Environmental Program Manager

# SUBSURFACE INVESTIGATION REPORT

## FORMER SHELL SERVICE STATION
## 6039 COLLEGE AVENUE
## OAKLAND, CALIFORNIA

**SAP CODE** 135685
**INCIDENT NO.** 98995745
**AGENCY NO.** RO0003123

**Prepared by:**
**Conestoga-Rovers & Associates**

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**MAY 19, 2015**
**REF. NO. 240503 (16)**
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## EXECUTIVE SUMMARY

- Six soil borings (SB-9 through SB-14) were drilled during this investigation to further evaluate soil and groundwater conditions.
- Five soil vapor probes (SVP-7 through SVP-11) were installed.
- Soil detections exceeding RWQCB ESLs are located in source areas at depths that were historically saturated, are consistent with soil data from the previous environmental case, and are horizontally and vertically delineated. These detections satisfy the SWRCB's *Low-Threat Underground Storage Tank Case Closure Policy* (Policy) residential media-specific direct contact and outdoor air exposure criteria.
- Only TPHg (up to 11,000 µg/L) and benzene (up to 80 µg/L) detections in grab groundwater samples collected from soil borings SB-9 and SB-11 exceed ESLs. These concentrations indicate that current conditions are similar to the groundwater contaminant plume observed during the previous environmental case, which was localized (less than 100 feet), not migrating, and stable to decreasing. These conditions satisfy the Policy media-specific groundwater criteria.
- No constituents of concern were detected above commercial ESLs in any soil vapor samples, and benzene, ethylbenzene, and naphthalene results meet Policy residential media-specific soil vapor criteria.
- No additional investigation is warranted.
- CRA recommends reviewing the case for closure.

# 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent the subsurface investigation at this site. The purpose of the investigation was to further evaluate soil and groundwater conditions and conduct soil vapor probe installation and sampling. CRA followed the scope of work and procedures presented in our May 28, 2014 *Revised Subsurface Investigation Work Plan*, which was conditionally approved by Alameda County Environmental Health (ACEH) in their June 30, 2014 letter. ACEH's October 20, 2014 and January 14, 2015 electronic correspondence extended the due date for this report, ultimately to May 12, 2015.

The site is a former Shell service station located on the southern corner of College Avenue and Claremont Avenue in Oakland, California (Figure 1). Currently, the site is a vacant lot. The former site layout consisted of a station building, three underground storage tanks (USTs), and two dispenser islands (Figure 2). The area surrounding the site is of mixed commercial and residential use.

A summary of previous work performed at the site is contained in Appendix A. Historical soil analytical data are presented on Table 1, historical grab groundwater data are presented on Table 2, and historical soil vapor data are presented on Table 3.

# 2.0 INVESTIGATION ACTIVITIES

## 2.1 PERMITS

CRA obtained drilling permits from Alameda County Public Works Agency (Appendix B).

## 2.2 FIELD DATES

February 23 through February 27, 2015 (soil borings and soil vapor probe installation) and March 9, 2015 (soil vapor probe sampling).

## 2.3 DRILLING COMPANY

National Exploration, Wells, and Pumps.

## 2.4 CRA PERSONNEL

Environmental scientist Michael Lombard directed drilling the soil borings and installing the soil vapor probes working under the supervision of California Professional Geologist Aubrey Cool.

## 2.5 DRILLING METHODS

Soil borings: direct push. Soil vapor probes: air-knife.

## 2.6 NUMBER OF BORINGS AND PROBES

CRA drilled six soil borings (SB-9 through SB-14) and installed five soil vapor probes (SVP-7 through SVP-11). The probe specifications and soil types encountered are described on the boring logs contained in Appendix C. The boring and probe locations are shown on Figure 2.

## 2.7 BORING AND PROBE DEPTHS

Soil borings: 35 to 45 feet below grade (fbg). Soil vapor probes: 5.5 fbg.

## 2.8 GROUNDWATER DEPTHS

Groundwater was first encountered in the soil borings at 25 to 35 fbg.

## 2.9 VAPOR PROBE MATERIALS

CRA constructed the vapor probes using one-quarter-inch diameter Teflon® tubing attached to 1-inch length plastic screen intervals and #2/12 Monterey sand filter pack. Probe diagrams are provided with boring logs in Appendix C.

## 2.10 VAPOR PROBE SCREENED INTERVALS

4.9 to 5.0 fbg.

## 2.11 SOIL VAPOR SAMPLING PROCEDURE

Prior to sampling, CRA purged at least three tubing volumes of air from each vapor probe using a vacuum pump. Immediately after purging, CRA collected a soil vapor sample using a laboratory-supplied Tedlar® bag. During sampling, CRA connected the Teflon® tubing for each vapor probe to a lung box containing the Tedlar® bag, and the lung box chamber was connected to the vacuum pump. CRA then drew the sample into the Tedlar® bag by reducing the pressure in the lung box with the vacuum pump. Following Tedlar® bag sampling from probe SVP-11, CRA attached a laboratory-supplied sorbent tube to the vapor probe and drew 100 milliliters of sample through the tube using a syringe. The sample was then capped at both ends. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories, Inc. of Garden Grove, California for analysis within 72 hours.

To check the system for leaks, CRA placed a containment unit (or shroud) over the soil vapor probe surface casing and sampling manifold. Prior to soil vapor probe purging, CRA introduced helium into the containment unit to obtain a minimum 50 percent (%) helium content level. CRA confirmed the helium content within the containment unit using a helium meter. The helium meter readings are presented in Section 3.4. All samples were analyzed by the laboratory for helium, and CRA presents the results in Section 3.4 and on Table 3.

## 2.12 SPLIT SAMPLES

On behalf of the property owners, SOMA Environmental Engineering, Inc. (SOMA) collected various split soil, grab groundwater, and soil vapor samples. SOMA's data tables and analytical reports are provided in Appendix D.

## 2.13 SAMPLING ANALYSES

Soil samples were analyzed for total petroleum hydrocarbons as motor oil and total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015B; total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), 1,2-dicholorethane (1,2-DCA), 1,2-dibromoethane (EDB), and naphthalene by modified EPA Method 8260B; and lead by EPA Method 6010B.

Grab groundwater samples were analyzed for TPHg, BTEX, MTBE, 1,2-DCA, EDB, and naphthalene by modified EPA Method 8260B.

Soil vapor samples were analyzed for TPHg by EPA Method TO-3 (modified); BTEX and naphthalene by modified EPA Method 8260B; oxygen and argon, carbon dioxide, and methane by ASTM D-1946; and for helium by ASTM D-1946 (M). A sorbent tube was collected from probe SVP-11 for analysis by EPA Method TO-17.

### 2.14 WASTE DISPOSAL

Soil and decontamination water generated during field activities were stored on site in 55-gallon drums, sampled, and profiled for disposal. On April 1, 2015, the soil was transported to Waste Management's Altamont Landfill in Livermore, California, and the decontamination water was transported to Crosby & Overton, Inc.'s facility in Long Beach, California for disposal. The laboratory analytical report is presented in Appendix E, and waste disposal manifests are presented in Appendix F.

## 3.0 FINDINGS

### 3.1 SOIL

The soil chemical analytical data are summarized in Table 1, and TPHg, benzene, and MTBE analytical results are presented on Figure 2. Laboratory analytical reports are presented in Appendix E.

### 3.2 GRAB GROUNDWATER

The grab groundwater chemical analytical data are summarized in Table 2, and TPHg, benzene, and MTBE, analytical results are presented on Figure 3. The laboratory analytical report is presented in Appendix E.

### 3.3 SOIL VAPOR

The soil vapor chemical analytical data are summarized in Table 3, and TPHg, benzene, and MTBE analytical results are presented on Figure 4. The laboratory analytical report is presented in Appendix E.

### 3.4 LEAK TESTING

CRA performed leak testing as described above. As shown in the following table, the helium detections (up to 0.343 percent by volume [%*v*]) are less than 5% of the concentration detected in the shroud, and the samples are considered valid.

| *Probe ID* | *Helium concentration in sample (%v)* | *Minimum helium detected in shroud (%v)* | *Maximum acceptable helium concentration in sample (%v)* |
|---|---|---|---|
| SVP-7 | <0.0100 | 52.2 | 2.61 |
| SVP-8 | 0.343 | 54.1 | 2.71 |
| SVP-9 | 0.0111 | 57.2 | 2.86 |
| SVP-10 | 0.0734 | 56.9 | 2.85 |
| SVP-11 | 0.0250 | 57.8 | 2.89 |

The laboratory analytical report for helium is presented in Appendix E, and CRA includes the results on Table 3.

## 4.0 CONCLUSIONS

All soil concentrations in samples collected from borings SB-10, SB-11, and SB-13 were below San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs)[1] for soil with commercial land use where groundwater is not a drinking water source. Soil samples collected between 14.5 and 20 fbg in borings SB-9, SB-12, and SB-14 contained up to 1,400 milligrams per kilogram (mg/kg) TPHd, 2,700 mg/kg TPHg, 3.9 mg/kg benzene, 6.5 mg/kg ethylbenzene, 47 mg/kg total xylenes, and 9.5 mg/kg naphthalene, with maximum detections in SB-14, located in the source area. Based on historical groundwater data, groundwater is typically 10 to 18 fbg; therefore, these detections are likely related to groundwater impacts. These detections are also consistent with historical soil detections from the previous environmental case.

Soil data collected during this investigation delineate soil impacts vertically to below ESLs. Soils exceeding ESLs are delineated horizontally by historical data from borings B-1, B-2, B-4, BH-A, BH-B, BH-D, SB-1, SB-2, SB-3, SB-8, SB-11 and wells MW-2 and MW-7. Benzene, ethylbenzene, and naphthalene from 0 to 10 fbg demonstrate that site soils meet California State Water Resources Control Board's *Low-Threat Underground Storage Tank Case Closure Policy* (Policy) residential media-specific direct contact and outdoor air exposure criteria.

[1] *User's Guide: Derivation and Application of Environmental Screening Levels,* RWQCB, Interim Final 2013

Grab groundwater concentrations of all constituents of concern were below non-drinking water ESLs in soil borings SB-10, SB-12, SB-13, and SB-14. Only 3,800 micrograms per liter (µg/L) TPHg in SB-9, 11,000 TPHg in SB-11, and 80 µg/L benzene in SB-11 exceeded ESLs. TPHg and benzene concentrations in grab groundwater sample SB-11, located adjacent to destroyed well MW-3, are consistent with historical concentrations from wells MW-3 and MW-4. Current grab groundwater data do not suggest a new release. Rather, they indicate that current conditions are similar to the groundwater contaminant plume observed during the previous environmental case, which was localized (less than 100 feet), not migrating, and stable to decreasing. These conditions satisfy the Policy media-specific groundwater criteria.

No BTEX, MTBE, 1,2-DCA, or EDB were detected in soil vapor samples from soil vapor probes SVP-7 through SVP-11. TPHg and naphthalene detections were below commercial ESLs. Further, benzene, ethylbenzene, and naphthalene results meet Policy residential media-specific soil vapor criteria.

## 5.0 RECOMMENDATIONS

No further investigation is warranted. CRA recommends reviewing the case for closure.

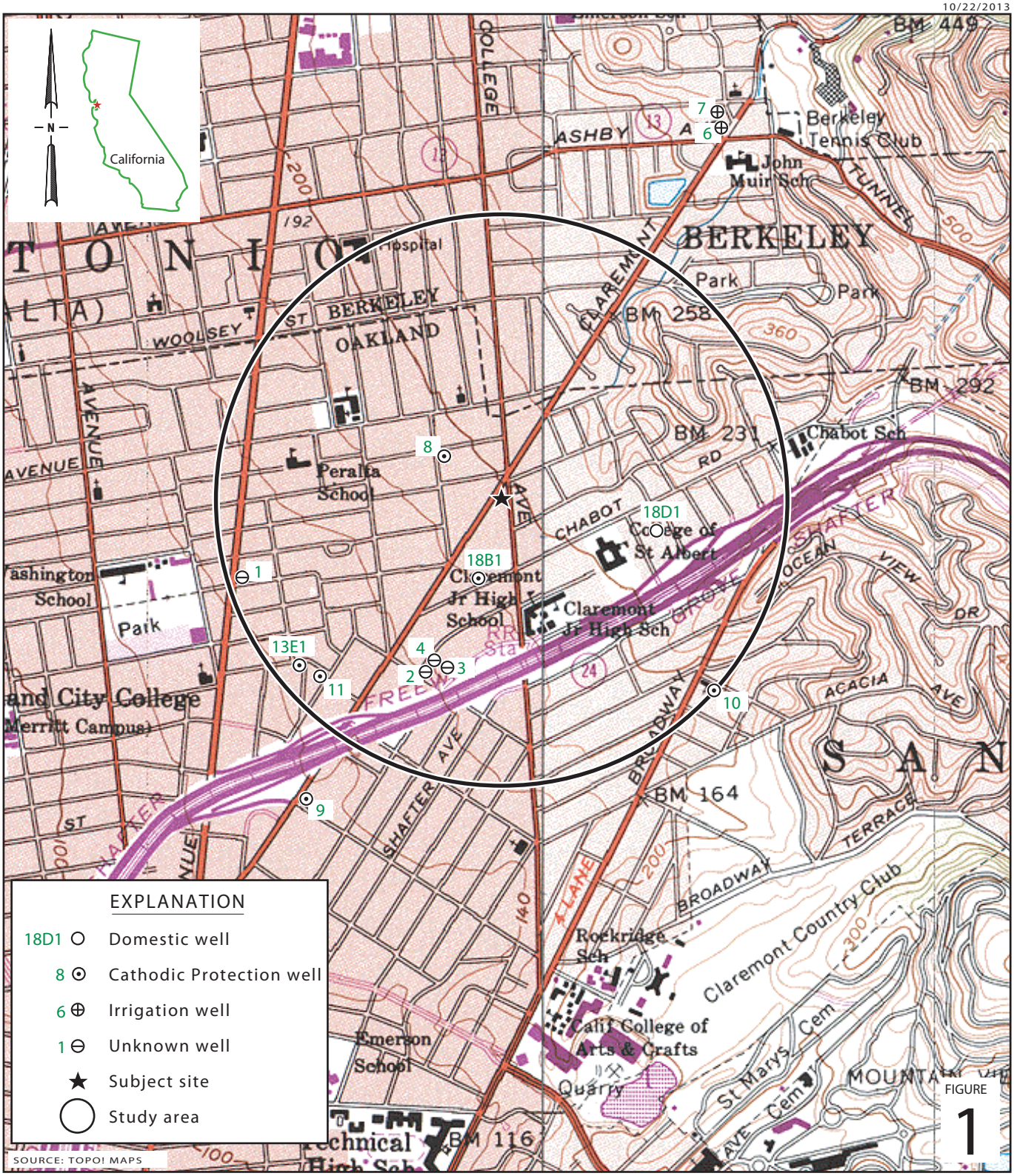
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

10/22/2013




I:\Shell\6-chars\2405--\240503-Oakland 6039 College\240503-FIGURES\240503 VICINITY.AI

FIGURE
1

**Former Shell Service Station**
6039 College Avenue
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

**Vicinity Map**

## EXPLANATION

- **SB-9** Soil boring location
- **SVP-7** Soil vapor probe location
- SVP-1 Destroyed soil vapor probe location
- MW-1 Destroyed monitoring well location
- T-1 Destroyed tank backfill well location
- E Electrical line (E)
- T Telecommunication line (T)
- G Gas line (G)
- STM Storm drain line (STM)
- SAN Sanitary sewer line (SAN)
- W Water line (W)
- Utility vault
- Flow direction
- Manhole
- Storm drain inlet
- fbg Feet below grade
- T1-A Soil sample location (Sparger, 2013)
- SB-1 Soil boring location (Cambria, 2005)
- D-1-5' Soil sample location (Cambria, 2004)
- DISP-A Soil sample location (Cambria, 1997)
- BH-A Soil boring location (WA, 1993)
- B-1 Soil boring location (WA, 1990)

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-9 | 2/24/2015 | 1 | <0.099 | <0.0020 | <0.0050 |
| SB-9 | 2/24/2015 | 3 | <0.099 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 5 | <0.099 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 10 | <0.098 | <0.0020 | <0.0049 |
| SB-9 | 2/25/2015 | 14.5 | 650 | 0.15 | <0.010 |
| SB-9 | 2/25/2015 | 19.5 | 360 | 0.043 | <0.020 |
| SB-9 | 2/25/2015 | 24.5 | <0.10 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 27.5 | <0.099 | <0.0020 | <0.0049 |
| SB-9 | 2/25/2015 | 30 | 3.4 | <0.0020 | <0.0049 |
| SB-9 | 2/25/2015 | 34.5 | 0.14 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 39.5 | 0.51 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 44.5 | <0.099 | <0.0020 | <0.0049 |

**Notes:**
Soil sample ID, date, depth in feet below grade, and concentrations in milligrams per kilogram
**TPHg =** Total petroleum hydrocarbons as gasoline
**MTBE =** Methyl tertiary-butyl ether
**<X =** Not detected at reporting limit X
Results in **BOLD** exceed applicable ESL

Location of Sensitive Receptor
Relative to Site
*(Domestic Well 18D1, ~0.25 miles ENE)*

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-10 | 2/24/2015 | 1 | <0.10 | <0.0020 | <0.0050 |
| SB-10 | 2/24/2015 | 3 | <0.10 | <0.0020 | <0.0050 |
| SB-10 | 2/27/2015 | 5 | <0.099 | <0.0020 | <0.0050 |
| SB-10 | 2/27/2015 | 10 | 4.9 | <0.0039 | <0.0098 |
| SB-10 | 2/27/2015 | 15 | 640 | <0.0099 | <0.025 |
| SB-10 | 2/27/2015 | 20 | 0.88 | <0.0020 | <0.0050 |
| SB-10 | 2/27/2015 | 25 | <0.10 | <0.0020 | <0.0050 |
| SB-10 | 2/27/2015 | 30 | <0.10 | <0.0020 | <0.0050 |
| SB-10 | 2/27/2015 | 34.5 | <0.10 | <0.0020 | <0.0050 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-13 | 2/23/2015 | 1 | <0.098 | <0.0020 | <0.0049 |
| SB-13 | 2/23/2015 | 2 | <0.10 | <0.0020 | <0.0050 |
| SB-13 | 2/27/2015 | 3 | <0.099 | <0.0020 | <0.0050 |
| SB-13 | 2/27/2015 | 5 | <0.10 | <0.0020 | <0.0050 |
| SB-13 | 2/27/2015 | 10 | <0.10 | <0.0020 | <0.0050 |
| SB-13 | 2/27/2015 | 15 | 90 | <0.0020 | <0.025 |
| SB-13 | 2/27/2015 | 20 | 2.0 | <0.0020 | <0.0050 |
| SB-13 | 2/27/2015 | 25 | <0.10 | <0.0020 | <0.0050 |
| SB-13 | 2/27/2015 | 30 | <0.10 | <0.0020 | <0.0050 |
| SB-13 | 2/27/2015 | 34.5 | <0.10 | <0.0020 | <0.0050 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-9 | 2/24/2015 | 1 | <0.099 | <0.0020 | <0.0050 |
| SB-9 | 2/24/2015 | 3 | <0.099 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 5 | <0.099 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 10 | <0.098 | <0.0020 | <0.0049 |
| SB-9 | 2/25/2015 | 14.5 | 650 | 0.15 | <0.010 |
| SB-9 | 2/25/2015 | 19.5 | 360 | 0.043 | <0.020 |
| SB-9 | 2/25/2015 | 24.5 | <0.10 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 27.5 | <0.099 | <0.0020 | <0.0049 |
| SB-9 | 2/25/2015 | 30 | 3.4 | <0.0020 | <0.0049 |
| SB-9 | 2/25/2015 | 34.5 | 0.14 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 39.5 | 0.51 | <0.0020 | <0.0050 |
| SB-9 | 2/25/2015 | 44.5 | <0.099 | <0.0020 | <0.0049 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-12 | 2/24/2015 | 1 | <0.099 | <0.0020 | <0.0050 |
| SB-12 | 2/24/2015 | 3 | <0.10 | <0.0020 | <0.0051 |
| SB-12 | 2/25/2015 | 5 | <0.099 | <0.0020 | <0.0020 |
| SB-12 | 2/25/2015 | 10 | <0.099 | <0.0020 | <0.0050 |
| SB-12 | 2/25/2015 | 15 | 9.3 | 0.011 | <0.0098 |
| SB-12 | 2/25/2015 | 20 | 0.49 | 0.0023 | <0.0050 |
| SB-12 | 2/25/2015 | 25 | <0.099 | <0.0020 | <0.0049 |
| SB-12 | 2/25/2015 | 30 | 0.97 | 0.0023 | <0.0049 |
| SB-12 | 2/25/2015 | 34.5 | <0.10 | <0.0020 | <0.0050 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-11 | 2/24/2015 | 1 | <0.10 | <0.0020 | <0.0050 |
| SB-11 | 2/24/2015 | 3 | <0.10 | <0.0020 | <0.0050 |
| SB-11 | 2/26/2015 | 5 | <0.10 | <0.0020 | <0.0050 |
| SB-11 | 2/26/2015 | 10 | <0.099 | <0.0020 | <0.0050 |
| SB-11 | 2/26/2015 | 15 | 19 | 0.018 | <0.023 |
| SB-11 | 2/26/2015 | 20 | <0.099 | <0.0020 | <0.0049 |
| SB-11 | 2/26/2015 | 25 | 0.19 | <0.0020 | <0.0049 |
| SB-11 | 2/26/2015 | 30 | 15 | <0.0043 | <0.011 |
| SB-11 | 2/26/2015 | 34.5 | <0.099 | <0.0020 | <0.0049 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-14 | 2/24/2015 | 1 | <0.10 | <0.0020 | <0.0050 |
| SB-14 | 2/24/2015 | 3 | <0.099 | <0.0020 | <0.0049 |
| SB-14 | 2/26/2015 | 5 | <0.099 | <0.0020 | <0.0049 |
| SB-14 | 2/26/2015 | 10 | <0.10 | <0.0020 | <0.0050 |
| SB-14 | 2/26/2015 | 15 | **2,700** | **3.9** | <2.5 |
| SB-14 | 2/26/2015 | 20 | 2.9 | 0.0077 | <0.0050 |
| SB-14 | 2/26/2015 | 25 | <0.099 | <0.0020 | <0.0050 |
| SB-14 | 2/26/2015 | 30 | <0.10 | <0.0020 | <0.0050 |
| SB-14 | 2/26/2015 | 34.5 | <0.10 | <0.0020 | <0.0050 |

Figure 2

Soil Chemical Concentration Map
Former Shell Service Station
6039 College Avenue
Oakland, California

I:\Shell\6-chars\2405--\240503-Oakland 6039 College\240503-FIGURES\240503 SITE PLAN (SOIL DATA).DWG (05/05/2015)

## EXPLANATION

- SB-9 — Soil boring location
- SVP-7 — Soil vapor probe location
- SVP-1 — Destroyed soil vapor probe location
- MW-1 — Destroyed monitoring well location
- T-1 — Destroyed tank backfill well location
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Utility vault
- Flow direction
- Manhole
- Storm drain inlet
- fbg — Feet below grade
- T1-A — Soil sample location (Sparger, 2013)
- SB-1 — Soil boring location (Cambria, 2005)
- D-1-5' — Soil sample location (Cambria, 2004)
- DISP-A — Soil sample location (Cambria, 1997)
- BH-A — Soil boring location (WA, 1993)
- B-1 — Soil boring location (WA, 1990)

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-9 | 2/25/2015 | 26.5 | 3,800 | 15 | <0.50 |

**Notes:**
Grab groundwater sample ID, date, depth in feet below grade, and concentrations in micrograms per liter
**TPHg =** Total petroleum hydrocarbons as gasoline
**MTBE =** Methyl tertiary-butyl ether
**<X =** Not detected at reporting limit X
Results in **BOLD** exceed applicable ESL

N
W
E
S
18D1

Location of Sensitive Receptor
Relative to Site
*(Domestic Well 18D1, ~0.25 miles ENE)*

0 20 40ft

CLAREMONT AVENUE
62nd STREET
FLORIO STREET
COLLEGE AVENUE
ARMANINO COURT

194.23'
W 16"Ø
STM 24"Ø
STM 90" RCP
FL = 189.10'
FL = 192'
FL = 190.19'
FL = 196.55'
FL = 195'
FL = 194.60'
FL = 193.78'
FL = 184'
FL = 189.30'

Commercial Properties
Residential and Commercial Properties
Commercial Properties
Planter
Approximate Dispenser and UST locations (1940)
Approximate Dispenser and UST locations (1957)
Former Canopy
Former Dispenser Islands
Former USTs
Former Station Building
Shell Station
*6039 College Ave.*
Approximate Waste Oil UST locations (1940 & 1957)
Building
Fence
AT&T DUCT

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7
B-1 B-2 B-3 B-4 B-5 B-6
SVP-1 SVP-2 SVP-3 SVP-4 SVP-5 SVP-6 SVP-7 SVP-8 SVP-9 SVP-10
SB-1 SB-2 SB-3 SB-6 SB-7 SB-8 SB-9 SB-10 SB-11 SB-12 SB-13 SB-14
T1-A T1-B T2-A T2-B T3-A T3-B T-1 T-2
BH-A BH-B BH-C BH-D
UDC-1 UDC-2 UDC-3 UDC-4
DISP-A DISP-B DISP-C DISP-D
D-1-5' D-2-5' D-3-5' D-4-5'
P-1-4' P-2-4' P-3-4' P-4-4'
Pipe-2 Pipe-Joint-1 Pipe-Joint-2

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-13 | 2/27/2015 | 28 | 57 | <0.50 | <0.50 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-10 | 2/27/2015 | 35 | 230 | <0.50 | 0.98 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-11 | 2/26/2015 | 35 | 11,000 | 80 | 20 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-14 | 2/26/2015 | 35 | 92 | 4.2 | <0.50 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-9 | 2/25/2015 | 26.5 | 3,800 | 15 | <0.50 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SB-12 | 2/25/2015 | 35 | <50 | 0.70 | <0.50 |

Figure 3

Grab Groundwater Chemical Concentration Map
Former Shell Service Station
6039 College Avenue
Oakland, California

I:\Shell\6-chars\2405--\240503-Oakland 6039 College\240503-FIGURES\240503 SITE PLAN (GRAB GW DATA).DWG (05/05/2015)

## EXPLANATION

- SB-9 — Soil boring location
- SVP-7 — Soil vapor probe location
- SVP-1 — Destroyed soil vapor probe location
- MW-1 — Destroyed monitoring well location
- T-1 — Destroyed tank backfill well location
- E — Electrical line (E)
- T — Telecommunication line (T)
- G — Gas line (G)
- STM — Storm drain line (STM)
- SAN — Sanitary sewer line (SAN)
- W — Water line (W)
- Utility vault
- Flow direction
- Manhole
- Storm drain inlet
- fbg — Feet below grade
- T1-A — Soil sample location (Sparger, 2013)
- SB-1 — Soil boring location (Cambria, 2005)
- D-1-5' — Soil sample location (Cambria, 2004)
- DISP-A — Soil sample location (Cambria, 1997)
- BH-A — Soil boring location (WA, 1993)
- B-1 — Soil boring location (WA, 1990)

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SVP-7 | 3/9/2015 | 4.9-5.0 | 45,000 | <16 | <18 |

**Notes:**
Soil vapor sample ID, date, depth in feet below grade, and concentrations in micrograms per cubic meter
**TPHg =** Total petroleum hydrocarbons as gasoline
**MTBE =** Methyl tertiary-butyl ether
**<X =** Not detected at reporting limit X
Results in **BOLD** exceed applicable ESL

N
W E
S
18D1

Location of Sensitive Receptor
Relative to Site
*(Domestic Well 18D1, ~0.25 miles ENE)*

0 20 40ft

CLAREMONT AVENUE
62nd STREET
FLORIO STREET
COLLEGE AVENUE
ARMANINO COURT

Commercial Properties
Residential and Commercial Properties
Commercial Properties
Shell Station
*6039 College Ave.*

194.23'
STM 90"Ø RCP
STM 24"Ø
W 16"Ø
FL = 189.10'
FL = 192'
FL = 190.19'
FL = 195'
FL = 196.55'
FL = 194.60'
FL = 193.78'
FL = 184'
FL = 189.30'
STM 90"Ø RCP
STM 24"Ø RCP

Planter
Former Canopy
Former Dispenser Islands
Former USTs
Former Station Building
Approximate Dispenser and UST locations (1940)
Approximate Dispenser and UST locations (1957)
Approximate Waste Oil UST locations (1940 & 1957)
Building
Fence

MW-1 B-1 SVP-1 B-2 SVP-6 B-4 SVP-2 B-5 SB-13 D-1-5' UDC-2 DISP-C SVP-9 SB-2 P-1-4' P-2-4' P-3-4' D-3-5' UDC-4 DISP-B P-4-4' D-4-5' UDC-3 DISP-A SB-1 DISP-D D-2-5' UDC-1 Pipe-2 Pipe-Joint-2 Pipe-Joint-1 MW-7 SB-10 T3-B SVP-11 SVP-5 T-1 T1-B SVP-3 MW-3 SB-11 B-3 SVP-7 T2-B T-2 SB-9 SB-8 SVP-8 MW-2 SB-14 B-6 T3-A T2-A MW-4 T1-A SVP-10 SB-12 SVP-4 BH-A BH-D BH-C BH-B MW-6 SB-6 SB-3 MW-5 SB-7

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SVP-9 | 3/9/2015 | 4.9-5.0 | 31,000 | <16 | <18 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SVP-11 | 3/9/2015 | 4.9-5.0 | 24,000 | <16 | <18 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SVP-7 | 3/9/2015 | 4.9-5.0 | 45,000 | <16 | <18 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SVP-8 | 3/9/2015 | 4.9-5.0 | 40,000 | <16 | <18 |

| ID | Date | Depth | TPHg | Benzene | MTBE |
|---|---|---|---|---|---|
| SVP-10 | 3/9/2015 | 4.9-5.0 | 16,000 | <16 | <18 |

Figure 4

Soil Vapor Chemical Concentration Map
Former Shell Service Station
6039 College Avenue
Oakland, California

I:\Shell\6-chars\2405--\240503-Oakland 6039 College\240503-FIGURES\240503 SITE PLAN (SOIL VAPOR DATA).DWG (05/05/2015)

TABLES

**TABLE 1**

**HISTORICAL SOIL ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE, OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *Depth (fbg)* | *O&G (mg/kg)* | *TPHmo (mg/kg)* | *TPHd (mg/kg)* | *TPHg (mg/kg)* | *Benzene (mg/kg)* | *Toluene (mg/kg)* | *Ethyl-benzene (mg/kg)* | *Total Xylenes (mg/kg)* | *Naphthalene (mg/kg)* | *MTBE (mg/kg)* | *TBA (mg/kg)* | *DIPE (mg/kg)* | *ETBE (mg/kg)* | *TAME (mg/kg)* | *1,2-DCA (mg/kg)* | *EDB (mg/kg)* | *Ethanol (mg/kg)* | *HVOCs (mg/kg)* | *Diethyl phthalate (mg/kg)* | *Dimethyl phthalate (mg/kg)* | *PCBs (mg/kg)* | *Lead (mg/kg)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1 | 01/04/1990 | 22.5 | --- | --- | --- | 8.1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-2 | 01/05/1990 | 18 | --- | --- | --- | 130 | 0.62 | <0.1 | 0.48 | 1.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-2 | 01/05/1990 | 24 | --- | --- | --- | 1.8 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-3 | 01/05/1990 | 19 | 810 | **110,000** | **5,900** | 610 | 0.24 | 0.18 | 4.1 | 9.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- | --- | --- | 13 |
| B-3 | 01/05/1990 | 21 | 380 | **14,000** | **750** | 71 | 0.19 | <0.1 | 0.53 | 0.68 | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- | --- | --- | 7.6 |
| B-4 | 01/04/1990 | 18.5 | --- | --- | --- | 170 | 0.57 | 0.11 | 0.65 | 1.3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-4 | 01/04/1990 | 25 | --- | --- | --- | <1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-5 | 01/04/1990 | 22 | --- | --- | --- | <1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-5 | 01/04/1990 | 23 | --- | --- | --- | 4.4 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-6 | 01/05/1990 | 19.5 | 1,100 | **12,000** | **600** | 260 | 0.28 | <0.1 | 1.3 | 2.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- | --- | --- | 8.1 |
| B-6 | 01/05/1990 | 22.5 | 91 | 320 | 16 | <1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- | --- | --- | 9.2 |
| MW-2 | 02/08/1990 | 11 | --- | <10 | <1 | <1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 02/08/1990 | 15.5 | --- | <1 | <1 | <1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 02/08/1990 | 20.5 | --- | <10 | 1.1 | <1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-3 | 02/07/1990 | 10 | --- | <10 | 4.4 | 12 | <0.0050 | <0.1 | <0.1 | 0.11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- |
| MW-3 | 02/07/1990 | 15.5 | --- | **1,800** | **200** | 230 | 1.1 | 0.7 | 3.1 | 1.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- |
| MW-3 | 02/07/1990 | 20.5 | --- | <10 | 9.9 | 28 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- |
| MW-4 | 02/07/1990 | 10.5 | --- | <1 | 1.2 | <1 | <0.0050 | <0.1 | <0.1 | <0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- |
| MW-4 | 02/07/1990 | 15.5 | --- | **6,400** | 61 | 140 | 0.31 | 0.34 | 0.92 | 2.60 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- |
| MW-4 | 02/07/1990 | 20.5 | --- | **46,000** | **2,200** | 72 | 0.06 | <0.1 | 0.46 | 0.57 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ND | --- |
| MW-5 | 08/24/1991 | 6 | <50 | <12 | <1.2 | <1 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | 08/24/1991 | 16 | <50 | 13 | 7.0[b] | 23[a] | <0.025 | <0.025 | 0.028 | 0.10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | 08/24/1991 | 21 | <50 | <12 | <1.2 | <1 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BH-A | 09/09/1993 | 6 | --- | --- | --- | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BH-A | 09/09/1993 | 11 | <50 | --- | 11[b] | 28[a] | <0.0025 | <0.0025 | <0.0025 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | **1.6** | **0.37** | --- | --- |
| BH-A | 09/09/1993 | 16 | <50 | --- | 27[b] | 130 | <0.025 | <0.0025 | 1.4 | 0.51 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <0.33 | <0.33 | --- | --- |
| BH-B | 09/09/1993 | 11 | --- | --- | --- | <1 | <0.0025 | <0.002 | <0.00 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BH-B | 09/09/1993 | 15.7 | <50 | --- | <1 | <1 | <0.0025 | <0.002 | <0.00 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <0.33 | <0.33 | --- | --- |
| BH-C | 09/10/1993 | 10.7 | --- | --- | --- | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BH-C | 09/10/1993 | 15.7 | 1,200[c]/930[a] | --- | **4,900[b]** | 580[a] | <0.125 | <0.125 | <0.125 | <0.125 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <0.33 | <0.33 | --- | --- |

**TABLE 1**

**HISTORICAL SOIL ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE, OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *Depth (fbg)* | *O&G (mg/kg)* | *TPHmo (mg/kg)* | *TPHd (mg/kg)* | *TPHg (mg/kg)* | *Benzene (mg/kg)* | *Toluene (mg/kg)* | *Ethyl-benzene (mg/kg)* | *Total Xylenes (mg/kg)* | *Naphthalene (mg/kg)* | *MTBE (mg/kg)* | *TBA (mg/kg)* | *DIPE (mg/kg)* | *ETBE (mg/kg)* | *TAME (mg/kg)* | *1,2-DCA (mg/kg)* | *EDB (mg/kg)* | *Ethanol (mg/kg)* | *HVOCs (mg/kg)* | *Diethyl phthalate (mg/kg)* | *Dimethyl phthalate (mg/kg)* | *PCBs (mg/kg)* | *Lead (mg/kg)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-C | 09/10/1993 | 20.7 | --- | --- | --- | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BH-D | 09/10/1993 | 10.7 | <50[c]/<50[d] | --- | 8.9[b] | 6.8[a] | <0.0025 | <0.0025 | <0.0025 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <0.33 | <0.33 | --- | --- |
| BH-D | 09/10/1993 | 15.7 | 97[c]/69[d] | --- | 55[b] | 150 | 0.42 | <0.0025 | <0.0025 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <0.33 | <0.33 | --- | --- |
| BH-D | 09/10/1993 | 20.7 | <50[c]/<50[d] | --- | 2.9[b] | 5.6 | <0.0025 | 0.0073 | 0.011 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <0.33 | <0.33 | --- | --- |
| BH-E (MW-6) | 09/10/1993 | 10.7 | --- | --- | --- | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BH-E (MW-6) | 09/10/1993 | 15.7 | <50[c]/<50[d] | --- | 3.5[b] | <1 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <0.33 | <0.33 | --- | --- |
| Disp-A-2.0' | 02/11/1998 | 2 | --- | --- | --- | 3.2 | 0.016 | 0.045 | < 0.0050 | 0.0072 | --- | 0.51[e]/< 0.10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Disp-A-4.0' | 02/11/1998 | 4 | --- | --- | --- | 53 | < 0.025 | < 0.025 | < 0.025 | < 0.025 | --- | <0.012[e] | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Disp-B-2.0' | 02/11/1998 | 2 | --- | --- | --- | 1.2 | < 0.0050 | 0.011 | < 0.0050 | < 0.0050 | --- | 0.025[e]/< 0.10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Disp-B-4.0' | 02/12/1998 | 4 | --- | --- | --- | < 1.0 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 | --- | <0.025[e] | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Disp-C-2.0' | 02/11/1998 | 2 | --- | --- | --- | **1,900** | **10** | **190** | **42** | **260** | --- | **420[e]/240** | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Disp-C-4.0' | 02/12/1998 | 4 | --- | --- | --- | **5,300** | < 2.5 | 5.0 | **26** | **250** | --- | <12[e] | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Disp-D-2.0' | 02/11/1998 | 2 | --- | --- | --- | 31 | < 0.025 | 0.035 | < 0.025 | 0.17 | --- | 0.65[e]/0.69 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Disp-D-4.0' | 02/12/1998 | 4 | --- | --- | --- | 6.3 | 0.011 | 0.013 | < 0.010 | < 0.010 | --- | 0.10[e]/0.13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D-1-5' | 05/07/2004 | 5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D-2-5' | 05/07/2004 | 5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D-3-5' | 05/07/2004 | 5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D-4-5' | 05/07/2004 | 5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P-1-4' | 05/07/2004 | 4 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P-2-4' | 05/07/2004 | 4 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P-3-4' | 05/07/2004 | 4 | --- | --- | --- | 17[a] | <0.022 | <0.022 | <0.022 | <0.022 | --- | <0.022 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P-4-4' | 05/07/2004 | 4 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SB-1-5.0 | 09/29/2005 | 5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | 0.015 | --- | <0.0050 | 0.090 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.53 | --- | --- | --- | --- | --- |
| SB-1-9.5 | 09/29/2005 | 9.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | 0.28 | 0.53 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.50 | --- | --- | --- | --- | --- |
| SB-1-14.5 | 09/29/2005 | 14.5 | --- | --- | --- | 7.3[a] | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | 0.035 | 0.053 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.50 | --- | --- | --- | --- | --- |
| SB-1-19.5 | 09/29/2005 | 19.5 | --- | --- | --- | 96[a] | <0.50 | <0.50 | <0.50 | <0.50 | --- | <0.50 | <2.5 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <25 | --- | --- | --- | --- | --- |
| SB-1-23.5 | 09/29/2005 | 23.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-1-29.5 | 09/29/2005 | 29.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1[f] | --- | --- | --- | --- | --- |
| SB-2-9.5 | 09/29/2005 | 9.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.50 | --- | --- | --- | --- | --- |
| SB-2-14.5 | 09/29/2005 | 14.5 | --- | --- | --- | 8.4[a] | <0.025 | <0.025 | <0.025 | <0.025 | --- | <0.025 | <0.050 | <0.050 | <0.025 | <0.025 | <0.025 | <0.025 | <0.50 | --- | --- | --- | --- | --- |
| SB-2-19.5 | 09/29/2005 | 19.5 | --- | --- | --- | 14[a] | <0.024 | <0.024 | <0.024 | <0.024 | --- | <0.024 | <0.049 | <0.049 | <0.024 | <0.024 | <0.024 | <0.024 | <0.49 | --- | --- | --- | --- | --- |
| SB-2-23.5 | 09/29/2005 | 23.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | 0.0087 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.50 | --- | --- | --- | --- | --- |

**TABLE 1**

**HISTORICAL SOIL ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE, OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *Depth (fbg)* | *O&G (mg/kg)* | *TPHmo (mg/kg)* | *TPHd (mg/kg)* | *TPHg (mg/kg)* | *Benzene (mg/kg)* | *Toluene (mg/kg)* | *Ethyl-benzene (mg/kg)* | *Total Xylenes (mg/kg)* | *Naphthalene (mg/kg)* | *MTBE (mg/kg)* | *TBA (mg/kg)* | *DIPE (mg/kg)* | *ETBE (mg/kg)* | *TAME (mg/kg)* | *1,2-DCA (mg/kg)* | *EDB (mg/kg)* | *Ethanol (mg/kg)* | *HVOCs (mg/kg)* | *Diethyl phthalate (mg/kg)* | *Dimethyl phthalate (mg/kg)* | *PCBs (mg/kg)* | *Lead (mg/kg)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-2-29.5 | 09/29/2005 | 29.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.50 | --- | --- | --- | --- | --- |
| SB-3-9.5 | 09/28/2005 | 9.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-3-14.5 | 09/28/2005 | 14.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | 0.32 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-3-17.0 | 09/28/2005 | 17.0 | --- | --- | --- | 370[a] | <0.50 | <0.50 | <0.50 | <0.50 | --- | <0.50 | <2.5 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <25 | --- | --- | --- | --- | --- |
| SB-3-20.5 | 09/28/2005 | 20.5 | --- | --- | --- | 9.7[a] | <0.023 | <0.023 | <0.023 | <0.023 | --- | <0.023 | 0.30 | <0.045 | <0.023 | <0.023 | <0.023 | <0.023 | <0.45 | --- | --- | --- | --- | --- |
| SB-6-9.5 | 09/28/2005 | 9.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-6-17.5 | 09/28/2005 | 17.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | 0.013 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-7-9.5 | 09/28/2005 | 9.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-7-14.5 | 09/28/2005 | 14.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | 0.041 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-7-17.0 | 09/28/2005 | 17 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-8-9.5 | 09/29/2005 | 9.5 | --- | --- | --- | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.1 | --- | --- | --- | --- | --- |
| SB-8-14.5 | 09/29/2005 | 14.5 | --- | --- | --- | 460[a] | <0.50 | <0.50 | <0.50 | <0.50 | --- | <0.50 | <2.5 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <25 | --- | --- | --- | --- | --- |
| SB-8-19.5 | 09/29/2005 | 19.5 | --- | --- | --- | 740[a] | <0.50 | <0.50 | <0.50 | <0.50 | --- | <0.50 | <2.5 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <25 | --- | --- | --- | --- | --- |
| SB-8-22.0 | 09/29/2005 | 22 | --- | --- | --- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <0.50 | <2.5 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <25 | --- | --- | --- | --- | --- |
| MW-7-5 | 05/16/2006 | 5 | --- | --- | --- | <0.121 | <0.00242 | <0.00242 | <0.00242 | <0.00605 | --- | <0.00242 | <0.0605 | <0.00242 | <0.00605 | <0.00242 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7-10 | 05/16/2006 | 10 | --- | --- | --- | 4.30 | <0.00239 | <0.00239 | <0.00239 | <0.00597 | --- | 0.00375 | <0.0597 | <0.00239 | <0.00597 | <0.00239 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7-15 | 05/16/2006 | 15 | --- | --- | --- | 2.12 | <0.00263 | <0.00263 | 0.105 | 0.0134 | --- | 0.0234 | <0.0657 | <0.00263 | <0.00657 | <0.00263 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7-20 | 05/16/2006 | 20 | --- | --- | --- | 613 | <0.00248 | <0.00248 | 0.0328 | 0.00852 | --- | 0.0206 | <0.0621 | <0.00248 | <0.00621 | <0.00248 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7-22 | 05/16/2006 | 22 | --- | --- | --- | 689 | 0.00333 | 0.0107 | 0.615 | 0.142 | --- | 0.0476 | <0.0608 | <0.00243 | <0.00608 | <0.00243 | --- | --- | --- | --- | --- | --- | --- | --- |
| T1-A | 01/29/2013 | 15 | 8,740 | --- | --- | **1,700** | <0.10 | 0.59 | 0.79 | 5.0 | <0.20 | <0.050 | <1.0 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | --- | --- | --- | --- | --- | 7.53 |
| T-1B | 01/29/2013 | 15 | 2,040 | --- | --- | **1,300** | <1.0 | 1.1 | **15** | **79** | **17** | <0.50 | <10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | --- | --- | --- | --- | --- | 6.77 |
| T2-A | 01/29/2013 | 15 | 640 | --- | --- | 560 | <0.10 | 0.43 | 1.1 | **11** | 1.5 | <0.050 | <1.0 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | --- | --- | --- | --- | --- | 4.82 |
| T2-B | 01/29/2013 | 15 | 160 | --- | --- | 130 | <1.0 | 4.7 | **9.0** | **64** | **7.2** | <0.50 | <10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | --- | --- | --- | --- | --- | 7.05 |
| T3-A | 01/29/2013 | 15 | 140 | --- | --- | 480 | <0.10 | 0.42 | 0.85 | 5.8 | **8.4** | <0.050 | <1.0 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | --- | --- | --- | --- | --- | 6.24 |
| T3-B | 01/29/2013 | 15 | 1,160 | --- | --- | **1,100** | <0.10 | 3.7 | **5.7** | **39** | **7.9** | <0.050 | <1.0 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | --- | --- | --- | --- | --- | 9.07 |
| UDC-1 | 01/29/2013 | 4 | <50 | --- | --- | <0.50 | <0.0010 | 0.0017 | 0.0083 | 0.070 | 0.0060 | <0.00050 | <0.010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- | --- | --- | --- | 6.67 |
| UDC-2 | 01/29/2013 | 4 | 2,080 | --- | --- | <0.50 | <0.0010 | <0.0010 | <0.0010 | 0.0024 | 0.0044 | <0.00050 | <0.010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- | --- | --- | --- | 6.09 |
| UDC-3 | 01/29/2013 | 4 | <50 | --- | --- | <0.50 | <0.0010 | <0.0010 | <0.0010 | 0.0019 | <0.0020 | <0.00050 | <0.010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- | --- | --- | --- | 6.62 |
| UDC-4 | 01/29/2013 | 4 | <50 | --- | --- | <0.50 | <0.0010 | <0.0010 | <0.0010 | 0.0016 | <0.0020 | <0.00050 | <0.010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- | --- | --- | --- | 6.09 |
| Pipe Joint-1 | 01/29/2013 | 4 | <50 | --- | --- | <0.50 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- | --- | --- | --- | 12.3 |
| Pipe Joint-2 | 01/29/2013 | 4.5 | <50 | --- | --- | <0.50 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0020 | <0.00050 | <0.010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- | --- | --- | --- | 6.65 |
| Pipe-2 | 01/29/2013 | 4.3 | <50 | --- | --- | <0.50 | <0.0010 | 0.00019 | 0.0079 | 0.080 | 0.0078 | <0.00050 | <0.010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- | --- | --- | --- | 7.07 |
| SB-9 | 02/24/2015 | 1 | --- | 15 | 16 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | <4.0 |

**TABLE 1**

**HISTORICAL SOIL ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE, OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *Depth (fbg)* | *O&G (mg/kg)* | *TPHmo (mg/kg)* | *TPHd (mg/kg)* | *TPHg (mg/kg)* | *Benzene (mg/kg)* | *Toluene (mg/kg)* | *Ethyl-benzene (mg/kg)* | *Total Xylenes (mg/kg)* | *Naphthalene (mg/kg)* | *MTBE (mg/kg)* | *TBA (mg/kg)* | *DIPE (mg/kg)* | *ETBE (mg/kg)* | *TAME (mg/kg)* | *1,2-DCA (mg/kg)* | *EDB (mg/kg)* | *Ethanol (mg/kg)* | *HVOCs (mg/kg)* | *Diethyl phthalate (mg/kg)* | *Dimethyl phthalate (mg/kg)* | *PCBs (mg/kg)* | *Lead (mg/kg)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-9 | 02/24/2015 | 3 | --- | 6.8 | 10 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 5.0 |
| SB-9 | 02/25/2015 | 5 | --- | 18 | 12 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | <2.0 |
| SB-9 | 02/25/2015 | 10 | --- | <5.0 | 5.5 | <0.098 | <0.0020 | <0.0020 | <0.0020 | <0.0039 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 4.9 |
| SB-9 | 02/25/2015 | 14.5 | --- | 160 | **440** | 650 | 0.15 | 0.0069 | 0.14 | 0.54 | 0.041 | <0.010 | --- | --- | --- | --- | <0.0042 | <0.0042 | --- | --- | --- | --- | --- | 6.3 |
| SB-9 | 02/25/2015 | 19.5 | --- | 360 | **1,200** | 360 | 0.043 | 0.018 | 0.0083 | 0.10 | <0.020 | <0.020 | --- | --- | --- | --- | <0.0079 | <0.0079 | --- | --- | --- | --- | --- | 6.6 |
| SB-9 | 02/25/2015 | 24.5 | --- | <5.0 | <5.0 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 9.4 |
| SB-9 | 02/25/2015 | 27.5 | --- | <4.9 | 7.2 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.1 |
| SB-9 | 02/25/2015 | 30 | --- | 6.2 | 53 | 3.4 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 4.6 |
| SB-9 | 02/25/2015 | 34.5 | --- | <5.0 | 16 | 0.14 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.6 |
| SB-9 | 02/25/2015 | 39.5 | --- | <4.9 | 9.1 | 0.51 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 5.9 |
| SB-9 | 02/25/2015 | 44.5 | --- | <5.0 | 8.8 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0039 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.1 |
| SB-10 | 02/24/2015 | 1 | --- | <5.0 | <5.0 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 6.7 |
| SB-10 | 02/24/2015 | 3 | --- | <5.0 | <5.0 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.0 |
| SB-10 | 02/27/2015 | 5 | --- | 13 | 45 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.1 |
| SB-10 | 02/27/2015 | 10 | --- | <9.8 | 20 | 4.9 | <0.0039 | <0.0039 | <0.0039 | <0.0078 | 0.027 | <0.0098 | --- | --- | --- | --- | <0.0039 | <0.0039 | --- | --- | --- | --- | --- | 7.2 |
| SB-10 | 02/27/2015 | 15 | --- | <9.9 | 63 | 640 | <0.0099 | <0.0099 | <0.0099 | <0.020 | <0.025 | <0.025 | --- | --- | --- | --- | <0.0099 | <0.0099 | --- | --- | --- | --- | --- | 8.5 |
| SB-10 | 02/27/2015 | 20 | --- | <9.9 | 24 | 0.88 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.4 |
| SB-10 | 02/27/2015 | 25 | --- | <9.7 | <9.7 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.4 |
| SB-10 | 02/27/2015 | 30 | --- | <9.8 | <9.8 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.1 |
| SB-10 | 02/27/2015 | 34.5 | --- | <9.6 | <9.6 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.8 |
| SB-11 | 02/24/2015 | 1 | --- | 5.2 | 9.9 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.0 |
| SB-11 | 02/24/2015 | 3 | --- | 5.0 | <5.0 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 6.0 |
| SB-11 | 02/26/2015 | 5 | --- | <10 | 15 g | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 6.0 |
| SB-11 | 02/26/2015 | 10 | --- | <10 | 27 g | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.7 |
| SB-11 | 02/26/2015 | 15 | --- | <9.9 | 36 g | 19 | 0.018 | <0.0090 | <0.0090 | <0.018 | <0.023 | <0.023 | --- | --- | --- | --- | <0.0090 | <0.0090 | --- | --- | --- | --- | --- | 8.9 |
| SB-11 | 02/26/2015 | 20 | --- | <5.0 | 9.4 g | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0039 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.8 |
| SB-11 | 02/26/2015 | 25 | --- | <9.9 | <9.9 | 0.19 | <0.0020 | <0.0020 | <0.0020 | <0.0039 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.0 |
| SB-11 | 02/26/2015 | 30 | --- | <4.9 | 50 g | 15 | <0.0043 | <0.0043 | <0.0043 | 0.022 | <0.011 | <0.011 | --- | --- | --- | --- | <0.0043 | <0.0043 | --- | --- | --- | --- | --- | 8.0 |
| SB-11 | 02/26/2015 | 34.5 | --- | <9.7 | <9.7 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.8 |
| SB-12 | 02/24/2015 | 1 | --- | 44 | 37 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.3 |
| SB-12 | 02/24/2015 | 3 | --- | 18 | 17 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0051 | <0.0051 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 4.2 |
| SB-12 | 02/25/2015 | 5 | --- | 180 | 68 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0020 | <0.0020 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.7 |
| SB-12 | 02/25/2015 | 10 | --- | <4.9 | 7.4 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 6.6 |
| SB-12 | 02/25/2015 | 15 | --- | 110 | **320** | 9.3 | 0.011 | <0.0039 | <0.0039 | <0.0079 | 0.017 | <0.0098 | --- | --- | --- | --- | <0.0039 | <0.0039 | --- | --- | --- | --- | --- | 7.1 |
| SB-12 | 02/25/2015 | 20 | --- | 36 | **130** | 0.49 | 0.0023 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 9.1 |
| SB-12 | 02/25/2015 | 25 | --- | <5.0 | 12 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 12 |
| SB-12 | 02/25/2015 | 30 | --- | <5.0 | <5.0 | 0.97 | 0.0023 | <0.0020 | <0.0020 | 0.0065 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.4 |
| SB-12 | 02/25/2015 | 34.5 | --- | <9.8 | <9.8 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.9 |

**TABLE 1**

**HISTORICAL SOIL ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE, OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *Depth (fbg)* | *O&G (mg/kg)* | *TPHmo (mg/kg)* | *TPHd (mg/kg)* | *TPHg (mg/kg)* | *Benzene (mg/kg)* | *Toluene (mg/kg)* | *Ethyl-benzene (mg/kg)* | *Total Xylenes (mg/kg)* | *Naphthalene (mg/kg)* | *MTBE (mg/kg)* | *TBA (mg/kg)* | *DIPE (mg/kg)* | *ETBE (mg/kg)* | *TAME (mg/kg)* | *1,2-DCA (mg/kg)* | *EDB (mg/kg)* | *Ethanol (mg/kg)* | *HVOCs (mg/kg)* | *Diethyl phthalate (mg/kg)* | *Dimethyl phthalate (mg/kg)* | *PCBs (mg/kg)* | *Lead (mg/kg)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-13 | 02/23/2015 | 1 | --- | 50 | 55 | <0.098 | <0.0020 | <0.0020 | <0.0020 | <0.0039 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.0 |
| SB-13 | 02/23/2015 | 2 | --- | 24 | 33 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 9.8 |
| SB-13 | 02/23/2015 | 3 | --- | 5.2 | 7.3 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.1 |
| SB-13 | 02/27/2015 | 5 | --- | 24 | 35 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 9.0 |
| SB-13 | 02/27/2015 | 10 | --- | <9.6 | 34 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.00200 | --- | --- | --- | --- | --- | 7.5 |
| SB-13 | 02/27/2015 | 15 | --- | <9.8 | 45 | 90 | <0.0099 | <0.0099 | <0.0099 | <0.0040 | <0.025 | <0.025 | --- | --- | --- | --- | <0.0099 | <0.0099 | --- | --- | --- | --- | --- | 7.7 |
| SB-13 | 02/27/2015 | 20 | --- | <10 | <10 | 2.0 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.7 |
| SB-13 | 02/27/2015 | 25 | --- | <9.7 | <9.7 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 10 |
| SB-13 | 02/27/2015 | 30 | --- | <5.0 | 6.3 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 9.0 |
| SB-13 | 02/27/2015 | 34.5 | --- | <9.5 | <9.5 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.4 |
| SB-14 | 02/24/2015 | 1 | --- | 16 | 17 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 2.7 |
| SB-14 | 02/24/2015 | 3 | --- | 13 | 12 | <0.099 | <0.0020 | 0.0023 | <0.0020 | <0.0040 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 3.3 |
| SB-14 | 02/26/2015 | 5 | --- | 36 | 28 | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0049 | <0.0049 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 6.5 |
| SB-14 | 02/26/2015 | 10 | --- | <5.0 | <5.0 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 6.0 |
| SB-14 | 02/26/2015 | 15 | --- | 270 | **1,400** | **2,700** | **3.9** | <1.0 | **6.5** | **47** | **9.5** | <2.5 | <50 | --- | --- | --- | <1.0 | <1.0 | --- | --- | --- | --- | --- | 7.6 |
| SB-14 | 02/26/2015 | 20 | --- | <9.9 | 48 | 2.9 | 0.0077 | <0.0020 | 0.0026 | 0.017 | 0.0093 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.9 |
| SB-14 | 02/26/2015 | 25 | --- | <9.9 | 13 g | <0.099 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 8.9 |
| SB-14 | 02/26/2015 | 30 | --- | <5.0 | 5.6 g | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 6.1 |
| SB-14 | 02/26/2015 | 34.5 | --- | <5.0 | <5.0 | <0.10 | <0.0020 | <0.0020 | <0.0020 | <0.0040 | <0.0050 | <0.0050 | --- | --- | --- | --- | <0.0020 | <0.0020 | --- | --- | --- | --- | --- | 7.0 |
| ***Shallow Soil (≤10 fbg) ESL [h]:*** | | | NA | 500 | 110 | 500 | 1.2 | 9.3 | 4.7 | 11 | 4.8 | 8.4 | 110 | NA | NA | NA | 0.91 | 0.51 | NA | Various | 0.035 | 0.035 | 0.74 | 320 |
| ***Deep Soil (>10 fbg) ESL [h]:*** | | | NA | 1,000 | 110 | 1,000 | 1.2 | 9.3 | 4.7 | 11 | 4.8 | 8.4 | 110 | NA | NA | NA | 0.91 | 0.51 | NA | Various | 0.035 | 0.035 | 0.74 | 320 |

**Notes:**

fbg = Feet below grade
O&G = Total oil and grease analyzed by 1990 SM 503 D&E (Gravimetric), by 503E in August 1991, by 5520 in September 1993, by 1664 in January 2013, and by EPA Method 8015B in 2015.
TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260; prior to 2004 and Janury 2013 analyzed by EPA Method 8015B.
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260; prior to 2004 analyzed by EPA Method 8015.
Naphthalene analyzed by EPA Method 8260B.
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B unless otherwise noted
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B
Ethanol analyzed by EPA Method 8260B
HVOCs = Halogenated volatile organic compounds analyzed by EPA Method 8010
Semi-volatile organic compounds analyzed by EPA Method 8270; all detections tabulated.

**TABLE 1**

**HISTORICAL SOIL ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE, OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *Depth (fbg)* | *O&G (mg/kg)* | *TPHmo (mg/kg)* | *TPHd (mg/kg)* | *TPHg (mg/kg)* | *Benzene (mg/kg)* | *Toluene (mg/kg)* | *Ethyl-benzene (mg/kg)* | *Total Xylenes (mg/kg)* | *Naphthalene (mg/kg)* | *MTBE (mg/kg)* | *TBA (mg/kg)* | *DIPE (mg/kg)* | *ETBE (mg/kg)* | *TAME (mg/kg)* | *1,2-DCA (mg/kg)* | *EDB (mg/kg)* | *Ethanol (mg/kg)* | *HVOCs (mg/kg)* | *Diethyl phthalate (mg/kg)* | *Dimethyl phthalate (mg/kg)* | *PCBs (mg/kg)* | *Lead (mg/kg)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

PCBs = Polychlorinated biphenyls analyzed by EPA Method 8080
Lead analyzed by EPA Method 7421 in January 1990, by EPA Method 6010B in Janaury 2013 and February 2015.
mg/kg = Milligrams per kilogram
ND = Not detected at laboratory detection limits; see relevant lab report for details.
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed applicable ESL

a = Quantity of unknown hydrocarbon(s) in sample based on gasoline
b = Not characteristic of standard diesel pattern
c = Total oil and grease analyzed by EPA Method 5520E
d = Non-polar oil and grease analyzed by EPA Method 5520E/F
e = Analyzed by Modified EPA Method 8020
g = Hydrocarbon result partly due to individual peak in quantitation range
h = San Francisco Bay Regional Water Quality Control Board (RWQCB) commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D of *User's Guide: Derivation and Application of Environmental Screening Levels, RWQCB, Interim Final 2013* ).

**TABLE 2**

**HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE**
**OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *O&G (µg/L)* | *TPHd (µg/L)* | *TPHg (µg/L)* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethyl-benzene (µg/L)* | *Total Xylenes (µg/L)* | *Naph-thalene (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *DIPE (µg/L)* | *ETBE (µg/L)* | *TAME (µg/L)* | *1,2-DCA (µg/L)* | *EDB (µg/L)* | *Ethanol (µg/L)* | *2-Methyl-naphthalene (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-A | 09/09/1993 | <5,000 | **2,900**[a] | **4,900** | 18 | <5 | **54** | 11 | 23 | --- | --- | --- | --- | --- | --- | --- | --- | **13** |
| BH-B | 09/09/1993 | <5,000 | 150 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | --- | --- | --- | --- | --- | --- | --- | --- | <10 |
| BH-C | 09/10/1993 | <5,000[b]/<5,000[c] | 100 | **640**[d] | 3.5 | <0.5 | 0.6 | <0.5 | <10 | --- | --- | --- | --- | --- | --- | --- | --- | <10 |
| BH-D | 09/10/1993 | 24,000[b]/20,000[c] | **25,000**[a] | **24,000**[d] | **720** | 86 | **44** | 11 | 18 | --- | --- | --- | --- | --- | --- | --- | --- | **75** |
| SB-3-W | 09/28/2005 | --- | --- | **2,700** | <0.50 | <0.50 | <0.50 | <1.0 | --- | 4.0 | 3,400 | <2.0 | <2.0 | <2.0 | <0.50 | <0.50 | <50 | --- |
| SB-6-W | 09/28/2005 | --- | --- | 71[e] | <0.50[e] | 0.81[e] | <0.50[e] | <1.0[e] | --- | 3.8[e] | 370[e] | <2.0[e] | <2.0[e] | <2.0[e] | <0.50[e] | <0.50[e] | <50[e] | --- |
| SB-7-W | 09/28/2005 | --- | --- | <500 | <0.50 | <0.50 | 1.4 | <1.0 | --- | 1.3 | 65 | <2.0 | <2.0 | <2.0 | <0.50 | 2.9 | <50 | --- |
| SB-1-W | 09/29/2005 | --- | --- | 290 | <0.50 | 0.86 | 0.63 | 2.2 | --- | 4.0 | 5.4 | <2.0 | <2.0 | <2.0 | <0.50 | <0.50 | <50 | --- |
| SB-2-W | 09/29/2005 | --- | --- | **9,900** | <20 | <20 | **91** | <40 | --- | 110 | <200 | 210 | <80 | <80 | <20 | <20 | <2,000 | --- |
| SB-8-W | 09/29/2005 | --- | --- | **43,000** | **170** | <10 | 15 | 34 | --- | 340 | 180 | 380 | <40 | <40 | <10 | <10 | <5,000 | --- |
| SB-9-26.5 | 02/25/2015 | --- | --- | **3,800** | 15 | 3.2 | 1.6 | 13 | 1.6 | <0.50 | --- | --- | --- | --- | <0.50 | <0.50 | --- | --- |
| SB-10-35 | 02/27/2015 | --- | --- | 230 | <0.50 | <0.50 | <0.50 | <1.0 | <1.0 | 0.98 | --- | --- | --- | --- | <0.50 | <0.50 | --- | --- |
| SB-11-35 | 02/26/2015 | --- | --- | **11,000** | **80** | 4.6 | 3.7 | 20 | <5.0 | 20 | --- | --- | --- | --- | <2.5 | <2.5 | --- | --- |
| SB-12-26.5 | 02/25/2015 | --- | --- | <50 | 0.70 | <0.50 | <0.50 | <1.0 | <1.0 | <0.50 | --- | --- | --- | --- | <0.50 | <0.50 | --- | --- |
| SB-13-28 | 02/27/2015 | --- | --- | 57 | <0.50 | <0.50 | <0.50 | <1.0 | <1.0 | <0.50 | --- | --- | --- | --- | <0.50 | <0.50 | --- | --- |
| SB-14-26 | 02/26/2015 | --- | --- | 92 | 4.2 | <0.50 | 0.67 | 3.3 | <1.0 | <0.50 | --- | --- | --- | --- | <0.50 | <0.50 | --- | --- |
| ***Groundwater ESL[f]:*** | | NA | 640 | 500 | 27 | 130 | 43 | 100 | 24 | 1,800 | 18,000 | NA | NA | NA | 100 | 77 | NA | 2.1 |

**HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE**
**OAKLAND, CALIFORNIA**

**Notes:**

O&G = Total oil and grease analyzed by EPA Method 5520 unless otherwise noted
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to 2005 analyzed by EPA Method 8015
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; prior to 2005 analyzed by EPA Method 8020
Naphthalene analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-dibromoethane analyzed by EPA Method 8260B
Ethanol analyzed by EPA Method 8260B
Semi-volatile organic compounds analyzed by EPA Method 8270; all detections tabulated.
µg/L = Micrograms per liter
<x = Not detected at reporting limit x
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed applicable ESL

a = Not characteristic of standard diesel pattern
b = Total oil and grease analyzed by EPA Method 5520B
c = Non-polar oil and grease analyzed by EPA Method 5520B/F
d = Atypical gasoline pattern
e = Sample extracted out of hold time
f = San Francisco Bay Regional Water Quality Control Board (RWQCB) ESL for groundwater where groundwater is not a source of drinking water (Tables B and D of *User's Guide: Derivation and Application of Environmental Screening Levels, RWQCB, Interim Final 2013* ).

**TABLE 3**

**HISTORICAL SOIL VAPOR ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE OAKLAND, CALIFORNIA**

| *Sample ID* | *Date* | *Depth (fbg)* | *TPHg ($\mu g/m^3$)* | *Benzene ($\mu g/m^3$)* | *Toluene ($\mu g/m^3$)* | *Ethyl-benzene ($\mu g/m^3$)* | *Total Xylenes ($\mu g/m^3$)* | *Naph-thalene ($\mu g/m^3$)* | *MTBE ($\mu g/m^3$)* | *1,2-DCA ($\mu g/m^3$)* | *EDB ($\mu g/m^3$)* | *Helium (%v)* | *Oxygen & Argon (%v)* | *Carbon Dioxide (%v)* | *Methane (%v)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVP-1 | 03/23/2010 | 4.67-4.75 | <5,700 | <16 | <19 | <22 | <43 | <52 | --- | --- | --- | <0.0100 | 15.7 | 4.91 | <0.500 |
| SVP-2 | 03/23/2010 | 4.67-4.75 | <5,700 | <16 | <19 | <22 | <43 | <52 | --- | --- | --- | <0.0100 | 15.4 | 5.91 | <0.500 |
| SVP-3 | 03/23/2010 | 4.67-4.75 | <5,700 | <16 | <19 | <22 | <43 | <52 | --- | --- | --- | <0.0100 | 13.7 | 6.30 | <0.500 |
| SVP-4 | 03/23/2010 | 4.67-4.75 | <5,700 | <16 | <19 | <22 | <43 | <52 | --- | --- | --- | <0.0100 | 17.0 | 4.01 | <0.500 |
| SVP-5 | 03/23/2010 | 4.67-4.75 | <5,700 | <16 | <19 | <22 | <43 | <52 | --- | --- | --- | <0.0100 | 9.38 | 9.50 | <0.500 |
| SVP-6 | 03/23/2010 | 4.67-4.75 | <5,700 | <16 | <19 | <22 | <43 | <52 | --- | --- | --- | <0.0100 | 11.0 | 6.43 | <0.500 |
| SVP-7 | 03/09/2015 | 4.9-5.0 | 45,000 | <16 | <19 | <22 | <22 | <52 | <18 | <20 | <38 | <0.0100 | 6.48 | 12.2 | <0.500 |
| SVP-8 | 03/09/2015 | 4.9-5.0 | 40,000 | <16 | <19 | <22 | <22 | <52 | <18 | <20 | <38 | 0.343 | 7.20 | 10.5 | <0.500 |
| SVP-9 | 03/09/2015 | 4.9-5.0 | 31,000 | <16 | <19 | <22 | <22 | <52 | <18 | <20 | <38 | 0.0111 | 20.2 | 1.91 | <0.500 |
| SVP-10 | 03/09/2015 | 4.9-5.0 | 16,000 | <16 | <19 | <22 | <22 | <52 | <18 | <20 | <38 | 0.0734 | 14.4 | 6.50 | <0.500 |
| SVP-11 | 03/09/2015 | 4.9-5.0 | 24,000 | <16 | <19 | <22 | <22 | <52/82[a] | <18 | <20 | <38 | 0.0250 | 12.6 | 5.69 | <0.500 |
| ***Soil Vapor ESLs*** [b] | | ***Commercial*** | ***2,500,000*** | ***420*** | ***1,300,000*** | ***4,900*** | ***440,000*** | ***360*** | ***47,000*** | ***580*** | ***170*** | ***NA*** | ***NA*** | ***NA*** | ***NA*** |
| | | ***Residential*** | ***300,000*** | ***42*** | ***160,000*** | ***490*** | ***52,000*** | ***36*** | ***4,700*** | ***58*** | ***17*** | ***NA*** | ***NA*** | ***NA*** | ***NA*** |

Notes:

TPHg = Total petroleum hydrocarbons as gasoline; analyzed by EPA Method TO-3M
Benzene, toluene, ethylbenzene, xylenes and naphthalene analyzed by EPA Method 8260B (M)
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B (M)
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B (M)
EDB = 1,2-Dicbromoethane analyzed by EPA Method 8260B (M)
Helium analyzed by ASTM Method D-1946 (M)
Oxygen & argon, carbon dioxide, and methane analyzed by ASTM Method D-1946

**TABLE 3**

**HISTORICAL SOIL VAPOR ANALYTICAL DATA**
**FORMER SHELL SERVICE STATION**
**6039 COLLEGE AVENUE OAKLAND, CALIFORNIA**

fbg = Feet below grade
µg/m3 = Micrograms per cubic meter
%v = Percent by volume
<x = Not detected at reporting limit x
-- = Not Analyzed
ESL = Environmental screening level
NA = No applicable ESLs
Results in **bold** equal or exceed applicable ESL

a = Naphthalene analyzed by EPA Method TO-17, result reported in nanograms per sample; soil vapor volume of 100 milliliters pulled through sorbent tube sampler, therefore result is 82 $\mu g/m^3$

b = San Francisco Bay Regional Water Quality Control Board (RWQCB) shallow soil gas screening level for evaluation of potential vapor intrusion concerns from *User's Guide: Derivation and Application of Environmental Screening Levels* , RWQCB, Interim Final - 2013.

# APPENDIX A

# SITE HISTORY

## SITE HISTORY

***1957 Underground Storage Tank (UST) Removal and Replacement:*** According to Shell's records, one 550-gallon and three 1,000-gallon steel USTs containing gasoline and one 110-gallon single-walled steel waste oil tank were removed in 1957. These tanks were apparently installed when the station first opened in 1940. The tanks were replaced by three 5,000-gallon leaded gasoline tanks and one 1,000-gallon waste oil tank, all of single-wall steel construction.

***1978 UST Removal and Installation:*** According to Shell's records, one 8,000-gallon and three 5,000-gallon steel USTs and one 1,000-gallon waste oil tank were removed in 1978. It is not clear from the available documentation when the 8,000-gallon tank was installed. The tanks were replaced by three 10,000-gallon fiberglass USTs for gasoline storage.

***1989 Unauthorized Release:*** In September 1989, Alameda County Environmental Health (ACEH) received notification of an unauthorized release from a UST. The source of the release was reported as a slight weep at the piping connection to the submersible pump for a gasoline tank.

***1990 Soil Borings:*** In January 1990, Harding Lawson Associates (HLA) drilled soil borings B-1 through B-6 to a depth of approximately 25 feet below grade (fbg). Up to 610 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), 5,900 mg/kg total petroleum hydrocarbons as diesel (TPHd), 110,000 mg/kg total petroleum hydrocarbons as motor oil, and 0.57 mg/kg benzene were detected in soil samples from borings B-3 and B-6. Petroleum hydrocarbons were not detected or concentrations were near laboratory detection limits in soil samples collected from borings B-1, B-2, B-4, and B-5. Details of the investigation are included in HLA's April 13, 1990 *Quarterly Technical Report, First Quarter 1990*.

***1990 Soil Boring and Well Installations:*** In February 1990, HLA drilled and installed groundwater monitoring wells MW-1 through MW-4 to a depth of 25 fbg. Up to 230 mg/kg TPHg and 1.1 mg/kg benzene were detected in soil samples collected from well borings MW-3 and MW-4. Petroleum hydrocarbons were not detected or concentrations were near laboratory detection limits in soil samples collected from well boring MW-2. Details of the investigation and well installations are included in HLA's July 10, 1990 *Quarterly Technical Report, Second Quarter 1990*.

***1991 Soil Boring and Well Installation:*** In August 1991, HLA installed monitoring well MW-5 to a depth of 28 fbg. Although 23 mg/kg of a petroleum mixture other than

gasoline was detected in a soil sample from 16 fbg, no benzene was detected in any samples collected. HLA's October 10, 1991 *Quarterly Technical Report, Third Quarter 1991* documents the investigation and well installations.

***1993 Soil Boring and Well Installation:*** In March 1993, Weiss Associates (WA) drilled soil borings BH-A through BH-E and converted boring BH-E into monitoring well MW-6. Up to 580 mg/kg TPHg, 0.42 mg/kg benzene, and 930 mg/kg petroleum oil and grease were detected in soil samples collected from borings BH-A, BH-C, and BH-D. No petroleum hydrocarbons were detected in soil samples collected from boring BH-B and only 3.5 mg/kg TPHd was detected in soil samples collected from boring BH-E (well MW-6). The report detailing this investigation is unavailable at this time.

***1998 Dispenser and Piping Upgrade Soil Sampling:*** In February 1998, Cambria Environmental Technology, Inc. (Cambria) collected soil samples for analysis during an upgrade of the site's four gasoline dispensers. The maximum hydrocarbon concentrations were detected in soil samples collected at Dispenser C. TPHg, TPHd, and benzene were detected at concentrations of 5,300 mg/kg, 420 mg/kg, and 10 mg/kg, respectively. Samples from the other dispenser locations contained significantly lower concentrations. Soil sampling details are included in Cambria's April 30, 1998 *Dispenser Soil Sampling Report*.

***1998 Potential Receptor Survey:*** In March 1998, Cambria completed a potential receptor survey to identify sensitive groundwater receptors within a one-half-mile radius of the site. Three surface water bodies and one potential receptor well were located within the study area. However, due to their distance and location up gradient and cross gradient of the site, Cambria concluded that none would be impacted by hydrocarbons detected at the subject site. Survey details are included in Cambria's March 5, 1998 *Potential Receptor Survey Report*. Figure 1 includes area well survey results.

***1999 to 2005 Separate-Phase and Dissolved-Phase Hydrocarbon Removal:*** Weekly extraction of separate-phase hydrocarbons (SPHs) and dissolved-phase hydrocarbons was initiated at this site on September 22 and November 10, 1999. Advanced Cleanup Technologies, Inc. of Benicia, California extracted SPHs and groundwater from wells MW-3 and MW-4 with a vacuum truck. Beginning November 10, 1999, Blaine Tech Services, Inc. (Blaine) of San Jose, California assumed the weekly purging events as the volume of groundwater and SPHs removed each week was not sufficient to warrant using a vacuum truck. Due to the absence of SPHs in MW-4, weekly purging events by Blaine were discontinued on June 8, 2000. No SPHs were detected in the first quarter of 2001. SPHs reappeared in the second and third quarters of 2001, and monthly extraction by Onyx Industrial Services was resumed in December 2001. Due to low hydrocarbon

concentrations, monthly extraction was suspended after the first quarter of 2005 event. Mobile groundwater extraction removed approximately 26,506 gallons of groundwater containing an estimated 2.6 pounds of hydrocarbons, 0.15 pounds of benzene, and 2.5 pounds of methyl tertiary-butyl ether (MTBE).

***2001 Dual-Phase Vacuum Extraction (DVE) Pilot Test:*** In March 2001, Cambria conducted short-term DVE pilot tests on monitoring wells MW-3 and MW-4. Vacuum influence was not observed in any adjacent wells. Approximately 0.2 pounds of TPHg, 0.004 pounds of benzene, and 0.02 pounds of MTBE were removed during the pilot test. Cambria's June 14, 2001 *First Quarter 2001 Monitoring Report and Remediation Pilot Testing* report presents details of the pilot testing.

***2001 Site Conceptual Model (SCM) and Well Receptor Survey and Conduit Studies:*** In August 2001, Cambria submitted an SCM and well receptor survey for the site. The receptor survey identified three surface water bodies and five potential receptor wells within a one-half-mile radius of the site. Due to either their distance from the site or their location up gradient and cross gradient of the site, it is unlikely that any of these wells would be impacted by hydrocarbons originating from the site. The conduit investigation findings indicated that there is potential for preferential pathway migration of petroleum hydrocarbons in existing horizontal utility trenches. Cambria's August 9, 2001 *Site Conceptual Model and Well Receptor Survey* report presents the SCM and details of the well receptor and conduit studies.

***2004 Dispenser and Piping Upgrade Soil Sampling:*** In May 2004, Cambria collected soil samples for analysis during an upgrade of the site's fueling system. MTBE and benzene were not detected in any soil samples collected during the upgrade activities. TPHg was detected in only one sample (P-3-4'), at a concentration of 17 mg/kg. Cambria's July 7, 2004 *Dispenser and Piping Upgrade Sampling Report* documents the soil sampling.

***2005 Subsurface Investigation:*** In September 2005, Cambria advanced six soil borings (SB-1 through SB-3 and SB-6 through SB-8) to assess subsurface conditions off site and down gradient of the site and on site in the vicinity of the fuel dispensers and USTs. Borings SB-1, SB-3, SB-6, and SB-8 were advanced to 35 fbg, SB-7 to 45 fbg, and SB-2 to 50 fbg. Soil samples were collected every 5 feet for soil description, possible chemical analysis, and headspace analysis. TPHg was detected in nine soil samples, at concentrations up to 740 mg/kg. The hydrocarbon impact to soil in the area investigated was minimal and likely indicative of impacted groundwater.

Grab samples of the first-encountered groundwater were collected from each boring. TPHg was detected in five groundwater samples, at concentrations up to

43,000 micrograms per liter (µg/L). Benzene was detected in SB-8 at a concentration of 170 µg/L. MTBE was detected in all samples at concentrations up to 340 µg/L. Tertiary-butyl alcohol (TBA) was detected in five samples, at concentrations up to 3,400 µg/L. Di-isopropyl ether was detected in two samples, with concentrations of 210 µg/L and 380 µg/L in samples from SB-2 and SB-8, respectively. Ethylene dibromide was detected in SB-7 at a concentration of 2.9 µg/L. Cambria's December 14, 2005 *Subsurface Investigation Report* presents investigation details.

***2006 Well Installation:*** In May 2006, Cambria installed one groundwater monitoring well (MW-7) immediately down gradient of the westernmost dispenser island, a suspected source of hydrocarbon impact to groundwater. Soil samples contained up to 689 mg/kg TPHg, 0.00333 mg/kg benzene, 0.0170 mg/kg toluene, 0.615 mg/kg ethylbenzene, 0.142 mg/kg total xylenes, and 0.0476 mg/kg MTBE. Cambria's August 11, 2006 *Subsurface Investigation Report and Second Quarter 2006 Groundwater Monitoring Report* provides well installation details.

***2010 Soil Vapor Investigation:*** In February 2010, Conestoga-Rovers & Associates (CRA) installed six soil vapor probes (SVP-1 through SVP-6). The vapor probes were sampled in March 2010. No constituents of concern were detected in any soil vapor samples. CRA's April 13, 2010 *Soil Vapor Probe Installation and Sampling Report* presents investigation details.

***2011 Well Destructions and Case Closure:*** In March 2011, CRA destroyed seven groundwater monitoring wells (MW-1 through MW-7) and six soil vapor probes (SVP-1 through SVP-6). ACEH's May 4, 2011 letter confirmed closure of the environmental case.

***2013 UST Removal and Station Demolition:*** In January 2013, MVP Petroleum Engineering, Inc. removed three 10,000-gallon USTs, dispensers, piping, the station building, and all other station fixtures. Upon UST removal, Oakland Fire Department noted cracks in the USTs that did not appear to be due to the UST removal. Sparger Technology, Inc. (Sparger) collected soil samples from beneath the USTs which contained up to 8,740 mg/kg oil and grease (O&G), 1,700 mg/kg TPHg, 3.7 mg/kg toluene, 15 mg/kg ethylbenzene, 79 mg/kg total xylenes, 17 mg/kg naphthalene, and 9.07 mg/kg lead. No benzene or fuel oxygenates were detected in the soil samples from beneath the USTs. Sparger also collected soil samples from beneath the dispensers and piping which contained up to 2,080 mg/kg O&G, 0.0019 mg/kg toluene, 0.0083 mg/kg ethylbenzene, 0.080 mg/kg total xylenes, 0.0078 mg/kg naphthalene, and 12.3 mg/kg lead. No TPHg, benzene, or fuel oxygenates were detected in the soil samples from the

dispensers and piping. Sparger's May 17, 2013 *Underground Storage Tank Removal Report* provides details.

***Groundwater Monitoring:*** From February 1990 to February 2010, periodic groundwater monitoring was conducted from up to five on-site wells (MW-1 through MW-4 and MW-7) and two off-site wells (MW-5 and MW-6).

# APPENDIX B

# PERMITS

# Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 01/27/2015 By jamesy**

**Permit Numbers: W2015-0060 to W2015-0061**
**Permits Valid from 02/23/2015 to 02/26/2015**

**Application Id:** 1421104923521 **City of Project Site:** Oakland
**Site Location:** 6039 College Ave, Oakland, CA
**Project Start Date:** 02/23/2015 **Completion Date:** 02/26/2015
**Assigned Inspector:** Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

**Applicant:** Conestoga Rovers & Associates - Katherine Ward
5900 Hollis St #A, Emeryville, CA 94608 **Phone:** 510-420-3367

**Property Owner:** Montrose Investment Co Inc.
242 Rivera Cir, Larkspur, CA 94939 **Phone:** --

**Client:** Equilou Enterprises dba Shell Oil Products US
20945 S Wilmington Ave, Carson, CA 90815 **Phone:** 714-731-1050

**Total Due:** $530.00
**Receipt Number: WR2015-0029** **Total Amount Paid:** $530.00
**Payer Name : Conestoga Rovers & Associates** Paid By: CHECK **PAID IN FULL**

**Works Requesting Permits:**

Borehole(s) for Investigation-Environmental/Monitorinig Study - 6 Boreholes
Driller: National E W P Inc - Lic #: 953646 - Method: other **Work Total: $265.00**

**Specifications**

| Permit Number | Issued Dt | Expire Dt | # Boreholes | Hole Diam | Max Depth |
|---|---|---|---|---|---|
| W2015-0060 | 01/27/2015 | 05/24/2015 | 6 | 3.50 in. | 35.00 ft |

**Specific Work Permit Conditions**

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

---

Well Construction-Vapor monitoring well-Vapor monitoring well - 5 Wells
Driller: National E W P Inc - Lic #: 953646 - Method: other **Work Total: $265.00**

**Specifications**

| Permit # | Issued Date | Expire Date | Owner Well Id | Hole Diam. | Casing Diam. | Seal Depth | Max. Depth |
|---|---|---|---|---|---|---|---|
| W2015-0061 | 01/27/2015 | 05/24/2015 | SVP10 | 3.00 in. | 0.25 in. | 4.00 ft | 5.50 ft |
| W2015-0061 | 01/27/2015 | 05/24/2015 | SVP11 | 3.00 in. | 0.25 in. | 4.00 ft | 5.50 ft |
| W2015-0061 | 01/27/2015 | 05/24/2015 | SVP7 | 3.00 in. | 0.25 in. | 4.00 ft | 5.50 ft |
| W2015-0061 | 01/27/2015 | 05/24/2015 | SVP8 | 3.00 in. | 0.25 in. | 4.00 ft | 5.50 ft |
| W2015-0061 | 01/27/2015 | 05/24/2015 | SVP9 | 3.00 in. | 0.25 in. | 4.00 ft | 5.50 ft |

**Specific Work Permit Conditions**

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled,

properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

8. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

9. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

11. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

# APPENDIX C

# BORING LOGS

# Boring/Well Log Legend

## KEY TO SYMBOLS/ABBREVIATIONS

- First encountered groundwater
- Static groundwater
- Soils logged by hand-auger or air-knife cuttings
- Soils logged by drill cuttings or disturbed sample
- Undisturbed soil sample interval
- Soil sample retained for submittal to analytical laboratory
- No recovery within interval
- Hydropunch or vapor sample screen interval

PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)

fbg = Feet below grade

Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval

(10YR 4/4) = Soil color according to Munsell Soil Color Charts

msl = Mean sea level

Soils logged according to the USCS.

## UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

| Major Divisions | | | Graphic | Group Symbol | Typical Description |
|---|---|---|---|---|---|
| Coarse-Grained Soils (>50% Sands and/or Gravels) | Gravel and Gravelly Soils | Clean Gravels (≤5% fines) | | GW | Well-graded gravels, gravel-sand mixtures, little or no fines |
| | | | | GP | Poorly-graded gravels, gravel-sand mixtures, little or no fines |
| | | Gravels with Fines ( ≥15% fines) | | GM | Silty gravels, gravel-sand-silt mixtures |
| | | | | GC | Clayey gravels, gravel-sand-clay mixtures |
| | Sand and Sandy Soils | Clean Sands (≤5% fines) | | SW | Well-graded sands, gravelly sands, little or no fines |
| | | | | SP | Poorly-graded sands, gravelly sand, little or no fines |
| | | Sands with Fines ( ≥15% fines) | | SM | Silty sands, sand-silt mixtures |
| | | | | SC | Clayey sands, sand-clay mixtures |
| Fine-Grained Soils (>50% Silts and/or Clays) | Silts and Clays | | | ML | Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity |
| | | | | CL | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays |
| | | | | OL | Organic silts and organic silty clays of low plasticity |
| | Silts and Clays | | | MH | Inorganic silts, micaceous or diatomaceous fine sand or silty soils |
| | | | | CH | Inorganic clays of high plasticity |
| | | | | OH | Organic clays of medium to high plasticity, organic silts |
| Highly Organic Soils | | | | PT | Peat, humus, swamp soils with high organic contents |

M:\Templates & Forms\Boring Logs\Boring Log Legend

CONESTOGA-ROVERS & ASSOCIATES

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Telephone: 510-420-0700
Fax: 510-420-9170

# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SVP-7 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 23-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 23-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Airknife | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 3.5" | **SCREENED INTERVALS** | 4.9 to 5 fbg |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | NA ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | | | | **SILT with Sand (ML)** ; dark yellowish brown (10YR 3/4); moist; 80% silt, 20% fine to coarse sand; low plasticity. | | |
| 0.0 | | | | | ML | | **Sandy SILT (ML)** ; 70% silt, 20% fine to coarse sand, 10% fine gravel. | | Bentonite Seal |
| 0.0 | | | | 5 | GM | | **Silty GRAVEL (GM)** ; dark yellowish brown (10YR 3/4); moist; 40% silt, 10% fine to coarse sand, 50% coarse gravel. | 4.0<br>5.5 | 1/4" teflon sample tubing<br>Monterey Sand #3<br>1" Polyethylene Vapor Implant<br>Bottom of Boring @ 5.5 fbg |

WELL LOG (PID) I:\SONOMA~1.PUB\0-USERS\MDUTRA\DRAFTR~1\240503-SO-GINT.GPJ DEFAULT.GDT 4/29/15

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# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SVP-8 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 23-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 23-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Airknife | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 3.5" | **SCREENED INTERVALS** | 4.9 to 5 fbg |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | NA ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | | ML | | **SILT with Sand (ML)** ; dark gray (7.5YR 4/1); moist; 85% silt, 15% fine to coarse sand. | | Bentonite Seal |
| 0.0 | | | | 5 | | | **Gravelly SILT (ML)** ; 50% silt, 10% fine to coarse sand, 40% coarse gravel; low plasticity. | 5.5 | 1/4" teflon sample tubing<br>Monterey Sand #3<br>1" Polyethylene Vapor Implant<br>Bottom of Boring @ 5.5 fbg |

WELL LOG (PID) I:\SONOMA~1.PUB\0-USERS\MDUTRA\DRAFTR~1\240503-SO-GINT.GPJ DEFAULT.GDT 4/29/15

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# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SVP-9 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 23-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 23-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Airknife | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 3.5" | **SCREENED INTERVALS** | 4.9 to 5 fbg |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | NA ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | | GM | | **Silty GRAVEL (GM)**; dark brown (7.5YR 3/2); moist; 40% silt, 10% coarse sand, 50% coarse gravel; low plasticity. | 1.0 | |
| 0.0 | | | | | ML | | **SILT (ML)**; weak red (7.5YR 5/2); moist; 25% clay, 75% silt; low plasticity. | | Bentonite Seal |
| | | | | 5 | | | | | 1/4" teflon sample tubing |
| 0.0 | | | | | | | @5 fbg - very dark grayish brown (10YR 3/2); 20% clay, 70% silt, 10% coarse sand. | 5.5 | Monterey Sand #3<br>1" Polyethylene Vapor Implant<br>Bottom of Boring @ 5.5 fbg |

WELL LOG (PID) I:\SONOMA~1.PUB\0-USERS\MDUTRA\DRAFTR~1\240503-SO-GINT.GPJ DEFAULT.GDT 4/29/15

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# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SVP-10 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 23-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 23-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Airknife | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 3.5" | **SCREENED INTERVALS** | 4.9 to 5 fbg |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | NA ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | | GM | | **GRAVEL with Silt and Sand (GM)**; dark gray (7.5YR 4/1); moist; 25% silt, 25% fine to coarse sand, 50% coarse gravel. | 1.0 | Bentonite Seal |
| | | | | | ML | | **SILT (ML)**; dark gray (7.5YR 4/1); moist; 20% clay, 70% silt, 10% fine sand; low plasticity. | | 1/4" teflon sample tubing |
| 0.0 | | | | 5 | | | @5 fbg - 20% clay, 80% silt. | 5.5 | Monterey Sand #3<br>1" Polyethylene Vapor Implant<br>Bottom of Boring @ 5.5 fbg |

WELL LOG (PID) I:\SONOMA~1.PUB\0-USERS\MDUTRA\DRAFTR~1\240503-SO-GINT.GPJ DEFAULT.GDT 4/29/15

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Telephone: 510-420-0700
Fax: 510-420-9170

# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SVP-11 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 23-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 23-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Airknife | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 3.5" | **SCREENED INTERVALS** | 4.9 to 5 fbg |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | NA ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | | | | **SILT with Sand (ML)** ; very dark gray (10YR 3/1); moist; 20% clay, 60% silt, 20% coarse sand; low plasticity. | | |
| 0.0 | | | | | | | @1 fbg - **SILT (ML)** ; 10% clay, 80% silt, 10% coarse gravel. | | Bentonite Seal |
| | | | | | ML | | | | 1/4" teflon sample tubing |
| 0.0 | | | | 5 | | | @5 fbg - very dark gray (10YR 3/1); 30% clay, 70% silt. | 5.5 | Monterey Sand #3<br>1" Polyethylene Vapor Implant<br>Bottom of Boring @ 5.5 fbg |

WELL LOG (PID) I:\SONOMA~1.PUB\0-USERS\MDUTRA\DRAFTR~1\240503-SO-GINT.GPJ DEFAULT.GDT 4/29/15

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# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SB-9 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 24-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 25-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Direct push | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 2.5" | **SCREENED INTERVALS** | NA |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | 26.50 fbg (25-Feb-15) ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | Air-knifed to 5 fbg. | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | SB-9-1 | | | ML | | **Sandy SILT (ML)** ; dark yellowish brown (10YR 3/4); moist; 65% silt, 35% fine to coarse sand; low plasticity. @1 fbg - dark gray (10YR 4/1). | | |
| 0.0 | | SB-9-3 | | | | | | 5.0 | |
| 0.1 | | SB-9-5 | | 5 | GM | | **Silty GRAVEL with Sand (GM)** ; brown (7.5YR 4/3); moist; 25% silt, 15% fine to coarse sand, 60% coarse gravel. | 10.0 | |
| 634.1 | | SB-9-10 | | 10 | ML | | **SILT (ML)** ;dark grayish brown (2.5Y 4/2); moist; 20% clay, 80% silt; low plasticity. | | |
| 1159 | | SB-9-14.5 | | 15 | | | @14 fbg - 35% clay, 65% silt; medium plasticity. | 17.5 | |
| 236 | | SB-9-19.5 | | 20 | CL | | **CLAY (CL)** ; dark gray (2.5Y 4/1); moist; 60% clay, 40% silt; medium plasticity. | | Portland Type I/II |
| 0.3 | | SB-9-24.5 | | 25 | | | @24 fbg - yellowish brown (10YR 5/8); mottled with weak red (2.5YR 5/2); 65% clay, 35% silt. | 24.0 | |
| | | SB-9-26.5W | | | | | **SILT with Sand (ML)** ; very pale brown (10YR 8/4); moist; 10% clay, 75% silt, 15% fine sand; low plasticity. ▽ | | |
| 0.3 | | SB-9-27.5 | | | | | @28 fbg - yellowish brown (10YR 5/4); 80% silt, 20% fine to coarse sand. | | |
| 3.4 | | | | | | | @29 fbg - dark yellowish brown (10YR 4/6); wet; 70% silt, 30% fine to coarse sand. | | |
| 10.7 | | SB-9-30 | | 30 | | | @30 fbg - yellowish brown (10YR 5/4); 80% silt, 20% fine to coarse sand. | | |
| 13.7 | | | | | | | | | |
| 11.9 | | SB-9-34.5 | | 35 | ML | | @34 fbg - **SILT (ML)** ; 25% clay, 75% silt, 10% fine to coarse sand. | | |
| 0.9 | | | | | | | @38 fbg - 25% clay, 75% silt. | | |
| 6.7 | | SB-9-39.5 | | 40 | | | @39 fgb - 15% clay, 85% silt. | | |
| 0.0 | | SB-9-44.5 | | 45 | | | @44 fbg - dark yellowish brown (10YR 4/6). | 45.0 | Bottom of Boring @ 45 fbg |

WELL LOG (PID) I:\SONOMA~1.PUB\0-USERS\MDUTRA\DRAFTR~1\240503-SO-GINT.GPJ DEFAULT.GDT 4/29/15

Conestoga-Rovers & Associates
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Emeryville, CA 94608
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Fax: 510-420-9170

# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SB-10 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 24-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 27-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Direct push | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 2.5" | **SCREENED INTERVALS** | NA |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | 30.00 fbg (27-Feb-15) ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | Air-knifed to 5 fbg. | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | SB-10-1 | | | ML | | **SILT (ML)**; dark grayish brown (10YR 4/2); moist; 20% clay, 80% silt; low plasticity. | | |
| 0.0 | | SB-10-3 | | | | | | | |
| 0.1 | | SB-10-5 | | 5 | | | @6 - grayish brown (10YR 5/2); 25% clay, 65% silt, 10% fine sand. | 7.5 | |
| | | | | | CL | | **CLAY (CL)**; brown (7.5YR 5/4); moist; 70% clay, 30% silt; medium plasticity. | | |
| 48.7 | | SB-10-10 | | 10 | | | | | |
| 146 | | SB-10-15 | | 15 | | | @16 fbg - dark gray (2.5Y 4/1); 75% clay, 25% silt. | 18.0 | Portland Type I/II |
| | | | | | ML | | **SILT (ML)**; yellowish brown (10YR 5/6); moist; 15% clay, 75% silt, 10% fine sand; low plasticity. | | |
| 1.5 | | SB-10-20 | | 20 | | | | | |
| 1.1 | | SB-10-25 | | 25 | | | @26 fbg - **SILT with Sand (ML)**; olive brown (2.5Y 4/3); 10% clay, 65% silt, 25% fine to coarse sand. | | |
| 0.0 | | SB-10-30<br>SB-10-35W | | 30 | | | ▽ | | |
| | | | | | | | @31 fbg - strong brown (7.5YR 4/6); 75% silt, 25% fine to coarse sand. | | |
| 0.0 | | SB-10-34.5 | | 35 | | | @34 fbg - **SILT (ML)**; dark yellowish brown (10YR 4/6); 30% clay, 60% silt, 10% fine to coarse sand; medium plasticity. | 35.0 | Bottom of Boring @ 35 fbg |

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Emeryville, CA 94608
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Fax: 510-420-9170

# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SB-11 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 24-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 26-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Direct push | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 2.5" | **SCREENED INTERVALS** | NA |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | 35.00 fbg (26-Feb-15) ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | Air-knifed to 5 fbg. | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 10.8 | | SB-11-1 | | | | | **SILT (ML)**; black (10YR 2/1); moist; 80% silt, 20% fine to coarse sand; low plasticity. | | |
| 0.2 | | SB-11-3 | | | | | | | |
| 0.4 | | SB-11-5 | | 5 | | | @4 fbg - **SILT with Sand (ML)**; 85% silt, 15% fine sand. | | |
| | | | | | ML | | @6 fbg - **SILT (ML)**; very dark gray (10YR 3/1); 25% clay, 65% silt, 10% coarse sand. | | |
| 35.0 | | SB-11-10 | | 10 | | | @10 fbg - **Sandy SILT (ML)**; brown (10YR 4/3); moist; 25% clay, 35% silt, 40% coarse sand; low plasticity. | | |
| | | | | | | | @13 fbg - **SILT (ML)**; dark grayish brown (10YR 4/2); moist; 35% clay, 65% silt; medium plasticity. | | |
| 490 | | SB-11-15 | | 15 | | | | 17.0 | Portland Type I/II |
| | | | | | CL | | **CLAY (CL)**; dark gray (2.5Y 4/1); moist; 75% clay, 25% silt; medium plasticity. | 20.0 | |
| 3.0 | | SB-11-20 | | 20 | | | **SILT (ML)**; grayish brown (10YR 5/2); moist; 15% clay, 75% silt, 10% fine sand; medium plasticity. | | |
| 1.5 | | SB-11-25 | | 25 | ML | | @25 fbg - **SILT with Sand (ML)**; brown (10YR 5/3); mottled with brownish yellow (10YR 6/6); moist; 30% clay, 50% silt, 20% fine to coarse sand; medium plasticity. @26 fbg - wet. | | |
| 11.0 | | SB-11-30 | | 30 | SM | | **Silty SAND (SM)**; yellowish brown (10YR 5/6); moist; 40% silt, 60% fine to coarse sand; low plasticity. | 29.0 | |
| | | | | | CL | | **CLAY (CL)**; dark yellowish brown (10YR 4/6); moist; 75% clay, 25% silt; medium plasticity. | 32.0 | |
| 0.0 | | SB-11-34.5 | | 35 | | | @34 fbg - 80% clay, 20% silt. ▽ | 35.0 | Bottom of Boring @ 35 fbg |

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# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SB-12 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 24-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 25-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Direct push | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 2.5" | **SCREENED INTERVALS** | NA |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | 26.50 fbg (25-Feb-15) ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | Air-knifed to 5 fbg. | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | SB-12-1 | | | | | **Sandy SILT (ML)**; very dark grayish brown (10YR 3/2); moist; 70% silt, 30% fine to coarse sand; medium plasticity. | | |
| 0.4 | | SB-12-3 | | | | | | | |
| 0.7 | | SB-12-5 | | 5 | | | | | |
| | | | | | ML | | | | |
| 760 | | SB-12-10 | | 10 | | | @10 fbg - **SILT (ML)**; dark gray (2.5Y 4/1); 30% clay, 70% silt. | | |
| 384 | | SB-12-15 | | 15 | | | | | |
| | | | | | | | | 18.0 | ◄ Portland Type I/II |
| | | | | | | | **CLAY (CL)**; brown (10YR 4/3); moist; 60% clay, 30% silt, 10% coarse sand; medium plasticity. | | |
| 12.1 | | SB-12-20 | | 20 | | | | | |
| | | | | | CL | | | | |
| 4.2 | | SB-12-25 | | 25 | | | @25 fbg - **CLAY with Sand (CL)**; 55% clay, 25% silt, 20% coarse sand. ▽ | | |
| | | SB-12-26.5W | | | | | | 28.0 | |
| | | | | | | | **SILT with Sand (ML)**; dark yellowish brown (10YR 4/4); moist; 75% silt, 25% fine to coarse sand; medium plasticity. | | |
| 2.1 | | SB-12-30 | | 30 | | | | | |
| | | | | | ML | | | 33.0 | |
| | | | | | | | **CLAY (CH)**; dark yellowish brown (10YR 4/4); moist; 70% clay, 30% silt; medium plasticity. | | |
| | | | | | CL | | | | |
| 0.0 | | SB-12-34.5 | | 35 | | | | 35.0 | Bottom of Boring @ 35 fbg |

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# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SB-13 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 23-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 27-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Direct push | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 2.5" | **SCREENED INTERVALS** | NA |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | 25.00 fbg (27-Feb-15) ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | Air-knifed to 5 fbg. | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 1.5 | | SB-13-1 | | | GM | | **Silty GRAVEL (GM)**; black (10YR 2/1); moist; 40% silt, 10% fine to coarse sand, 50% coarse gravel. | | |
| 8.1 | | SB-13-2 | | | | | @1 fbg - 20% silt, 10% fine to coarse sand, 70% coarse gravel. | 3.0 | |
| 4.1 | | SB-13-3 | | | | | **Gravelly SILT (ML)**; black (10YR 2/1); moist; 60% silt, 40% coarse gravel; low plasticity. | | |
| 0.0 | | SB-13-5 | | 5 | | | @4 fbg - **SILT (ML)**; 15% clay, 75% silt, 10% fine sand. | | |
| | | | | | | | @5 fbg - **Sandy SILT (ML)**; very dark grayish brown (10YR 3/2); 75% silt, 25% fine to coarse sand. | | |
| 1.0 | | SB-13-10 | | 10 | | | @10 fbg - **SILT (ML)**; dark gray (2.5Y 4/1); 30% clay, 70% silt. | | |
| 42.1 | | SB-13-15 | | 15 | | | @15 fbg - 20% clay, 70% silt, 10% fine to coarse sand. | | Portland Type I/II |
| | | | | | ML | | | | |
| 17.8 | | SB-13-20 | | 20 | | | @20 fbg - brown (10YR 4/3); 90% silt, 10% fine sand. | | |
| 0.1 | | SB-13-25<br>SB-13-25W | | 25 | | | @25 fbg - dark yellowish brown (10YR 4/4); wet; 90% silt, 10% fine sand. ▽ | | |
| 0.4 | | SB-13-30 | | 30 | | | | | |
| | | | | | | | | 34.0 | |
| 0.0 | | SB-13-34.5 | | 35 | SM | | **Silty SAND (SM)**; dark yellowish brown (10YR 4/4); wet; 40% silt, 60% sand. | 35.0 | Bottom of Boring @ 35 fbg |

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# BORING / WELL LOG

| | | | |
|---|---|---|---|
| **CLIENT NAME** | Shell Oil Products US | **BORING/WELL NAME** | SB-14 |
| **JOB/SITE NAME** | Former Shell Service Station | **DRILLING STARTED** | 24-Feb-15 |
| **LOCATION** | 6039 College Avenue, Oakland, California | **DRILLING COMPLETED** | 26-Feb-15 |
| **PROJECT NUMBER** | 240503 | **WELL DEVELOPMENT DATE (YIELD)** | NA |
| **DRILLER** | National Exploration,Wells & Pumps,C-57#953646 | **GROUND SURFACE ELEVATION** | NA |
| **DRILLING METHOD** | Direct push | **TOP OF CASING ELEVATION** | NA |
| **BORING DIAMETER** | 2.5" | **SCREENED INTERVALS** | NA |
| **LOGGED BY** | M. Lombard | **DEPTH TO WATER (First Encountered)** | 26.00 fbg (26-Feb-15) ▽ |
| **REVIEWED BY** | P. Schaefer, PG 5612 | **DEPTH TO WATER (Static)** | NA ▼ |
| **REMARKS** | Air-knifed to 5 fbg. | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | SB-14-1 | | | ML | | **Sandy SILT (ML)**; dark grayish brown (10YR 4/2); moist; 65% silt, 35% fine to coarse sand; low plasticity. | | |
| 0.3 | | SB-14-3 | | | | | | | |
| 0.3 | | SB-14-5 | | 5 | | | @5 fbg - **SILT with Sand (ML)**; black (5YR 2.5/1); moist; 30% clay, 55% silt, 15% fine to coarse sand. | 8.0 | |
| 1305 | | SB-14-10 | | 10 | CL | | **CLAY (CL)**; dark gray (5Y 4/1); moist; 70% clay, 30% silt; high plasticity. | 13.0 | |
| 1230 | | SB-14-15 | | 15 | ML | | **SILT (ML)**; dark gray (5Y 4/1); moist; 25% clay, 75% silt; low plasticity. | | Portland Type I/II |
| 12.9 | | SB-14-20 | | 20 | | | @20 fbg - **SILT with Sand (ML)**; strong brown (7.5YR 4/6); 30% clay, 55% silt, 15% fine sand. | | |
| | | | | | | | @23 fbg - 10% clay, 70% silt, 20% fine to coarse sand. | | |
| 0.9 | | SB-14-25 | | 25 | | | @25 fbg - brown (7.5YR 4/3); 80% silt, 20% fine to coarse sand. ▽ | | |
| | | | | | | | @28 fbg - **Gravelly SILT with Sand (ML)**; wet; 50% silt, 20% fine to coarse sand, 30% coarse gravel. | | |
| 0.9 | | SB-14-30 | | 30 | | | @30 fbg - **SILT (ML)**; dark yellowish brown (10YR 4/6); moist; 10% clay, 90% silt. | | |
| 0.0 | | SB-14-34.5 | | 35 | | | @34 fbg - 40% clay, 60% silt; medium plasticity. | 35.0 | Bottom of Boring @ 35 fbg |

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# APPENDIX D

# SOMA ENVIRONMENTAL ENGINEERING, INC. – DATA TABLES AND ANALYTICAL REPORTS

# Table 1
## Groundwater Analytical Data
Shell Branded Service Station
6039 College Avenue, Oakland, CA

| Sample ID | Date | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MtBE (µg/L) | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Ethanol (µg/L) | Naphthalene (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SB-12** | 2/25/2015 | <50 | **0.82** | <0.50 | <0.5 | <0.5 | <0.5 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1,000 | <2.0 |
| **SB-13** | 2/25/2015 | **99** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1,000 | <2.0 |
| **SB-14** | 2/25/2015 | **62** | **3.00** | <0.5 | <0.5 | **2.2** | <0.5 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1,000 | <2.0 |

Notes:

| | |
|---|---|
| TPH-g | Total petroleum Hydrocarbons as Gasoline |
| MtBE | Methyl ter-Butyl Ether |
| TBA | Ter-Butyl Alcohol |
| DIPE | Di-Isopropyl Ether |
| ETBE | Ethyl ter-Butyl Ether |
| TAME | Ter-Amyl Methyl Ether |
| 1,2-DCA | 1,2-Dichloroethane |
| EDB | 1,2-Dibromoethane |
| < | Below laboratory reporting limit |

# Table 2
## Soil Analytical Data
Shell Branded Service Station
6039 College Avenue, Oakland, CA

| Sample ID | Date | Depth (fbg) | TPHg (mg/kg) | TPHd (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | MtBE (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | 1,2-DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Lead (mg/kg) | Naphthalene (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-12 | 2/24/2015 | 1.00 | <0.99 | **9.6 Y** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.099 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.99 | **6.9** | <0.005 |
| SB-12 | 2/24/2015 | 3.00 | <0.98 | **10 Y** | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.94 | **10.0** | <0.0047 |
| SB-12 | 2/25/2015 | 5.50 | <1.0 | **21 Y** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.099 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.99 | **9.8** | <0.005 |
| SB-12 | 2/25/2015 | 10.50 | **110 Y** | **350 Y** | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <0.24 | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <2.40 | **6.5** | <0.012 |
| SB-12 | 2/25/2015 | 15.50 | **620 Y** | **620** | **0.04** | <0.025 | <0.025 | <0.025 | <0.025 | <0.50 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <5.0 | **6.0** | **0.25** |
| SB-12 | 2/25/2015 | 20.50 | <1.0 | **23 Y** | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | **1.10** | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.94 | **8.4** | <0.0047 |
| SB-12 | 2/25/2015 | 25.50 | <0.97 | <1.0 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.096 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.96 | **8.4** | <0.0048 |
| SB-12 | 2/25/2015 | 30.50 | <1.0 | <0.99 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.093 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.93 | **7.1** | <0.0047 |
| SB-12 | 2/25/2015 | 34.50 | <1.1 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.099 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.99 | **7.1** | <0.005 |
| SB-13 | 2/23/2015 | 1.00 | <0.99 | **13 Y** | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.095 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.95 | **8.5** | <0.0048 |
| SB-13 | 2/23/2015 | 2.00 | <1.0 | **18 Y** | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.098 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.98 | **11.0** | <0.0049 |
| SB-13 | 2/23/2015 | 3.00 | <1.1 | **12 Y** | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.097 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.97 | **5.2** | <0.0049 |
| SB-13 | 2/27/2015 | 5.50 | <1.0 | **2.9 Y** | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.091 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.91 | **3.3** | <0.0045 |
| SB-13 | 2/27/2015 | 10.50 | <0.94 | <0.99 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.099 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.99 | **2.5** | <0.005 |
| SB-13 | 2/27/2015 | 15.50 | **14 Y** | **11 Y** | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.090 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.90 | **3.7** | <0.0045 |
| SB-13 | 2/27/2015 | 20.50 | <1.1 | **8.2 Y** | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.095 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.95 | **4.6** | <0.0048 |
| SB-13 | 2/27/2015 | 25.50 | <1.1 | **3.3 Y** | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.095 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.95 | **4.7** | <0.0047 |
| SB-13 | 2/27/2015 | 30.50 | <0.95 | **2.5 Y** | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.097 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.97 | **5.0** | <0.0049 |
| SB-13 | 2/27/2015 | 34.00 | <1.0 | **2.4 Y** | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.097 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.97 | **5.5** | <0.0048 |
| SB-14 | 2/24/2015 | 1.00 | <0.96 | **6.1 Y** | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.099 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.99 | **4.3** | <0.0049 |
| SB-14 | 2/24/2015 | 3.00 | <0.94 | **5.9 Y** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.099 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.99 | **6.4** | <0.005 |
| SB-14 | 2/26/2015 | 5.50 | <1.1 | **29 Y** | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.089 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.89 | **13.0** | <0.0045 |
| SB-14 | 2/26/2015 | 10.50 | **13 Y** | **300 Y** | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.095 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.95 | **5.4** | <0.0047 |
| SB-14 | 2/26/2015 | 15.50 | **1,700** | **1,200** | **0.26** | <0.25 | **2.3** | **26** | <0.25 | <5.0 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <50 | **6.0** | **12** |
| SB-14 | 2/26/2015 | 20.50 | <0.97 | **44** | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | **1.2** | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.93 | **9.0** | <0.0046 |
| SB-14 | 2/26/2015 | 25.50 | <1.1 | **1.9 Y** | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.92 | **6.7** | <0.0046 |
| SB-14 | 2/26/2015 | 30.50 | <1.0 | <1.0 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.097 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.97 | **5.4** | <0.0049 |
| SB-14 | 2/26/2015 | 34.00 | <0.94 | <1.0 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.098 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.98 | **4.0** | <0.0049 |

Notes:

| | |
|---|---|
| TPH-g | Total petroleum Hydrocarbons as Gasoline |
| MtBE | Methyl ter-Butyl Ether |
| TBA | Ter-Butyl Alcohol |
| DIPE | Di-Isopropyl Ether |
| ETBE | Ethyl ter-Butyl Ether |
| TAME | Ter-Amyl Methyl Ether |
| 1,2-DCA | 1,2-Dichloroethane |
| EDB | 1,2-Dibromoethane |
| < | Below laboratory reporting limit |
| Y | Sample exhibits chromatographic pattern which does not resemble standard |

# Table 3
# Soil Vapor Analytical Data
Shell Branded Service Station
6039 College Avenue, Oakland, CA

| Sample ID | Date | 2-Propanol (µg/m3) | Acetone (µg/m3) | TBA (µg/m3) | Toluene (µg/m3) | MIBK (µg/m3) | Helium (%) |
|---|---|---|---|---|---|---|---|
| **SVP-7** | 3/9/2015 | 18.1 | 39.7 | 16.8 | 29.7 | 32 | 1.4 |
| **SVP-8** | 3/9/2015 | <0.97 | 30.60 | 9.74 | 18.1 | <0.85 | 1.4 |

Notes:

| | |
|---|---|
| TBA | Ter-Butyl Alcohol |
| MIBK | 4-Methyl-2-Pentanone |
| < | Below laboratory reporting limit |

Soma Environmental
6620 Owens Dr. Suite A
Pleasanton, California 94588
Tel: 925-734-6400
Fax: 925-734-6401

RE: 6039 College Ave, Oakland

Work Order No.: 1503066

Dear Joyce Bobek:

Torrent Laboratory, Inc. received 2 sample(s) on March 10, 2015 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock
QA Officer

March 17, 2015
Date

**Date:** 3/17/2015

**Client:** Soma Environmental

**Project:** 6039 College Ave, Oakland

**Work Order:** 1503066

## CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Torrent LABORATORY, INC.

## Sample Result Summary

**Report prepared for:** Joyce Bobek
Soma Environmental

**Date Received:** 03/10/15
**Date Reported:** 03/17/15

**SVP-7** 1503066-001A

| Parameters: | Analysis Method | DF | MDL | PQL | Results ug/m3 |
|---|---|---|---|---|---|
| 2-Propanol (Isopropyl Alcohol) | ETO15 | 2 | 1.9 | 40 | 18.1 |
| Acetone | ETO15 | 2 | 1.8 | 38 | 39.7 |
| tert-Butanol | ETO15 | 2 | 1.8 | 17 | 16.8 |
| Toluene | ETO15 | 2 | 1.9 | 3.8 | 29.7 |
| 4-Methyl-2-Pentanone (MIBK) | ETO15 | 2 | 1.7 | 4.1 | 32.0 |
| Helium | D1946 | 1 | 0.0022 | 0.010 | 1.4% |

**SVP-8** 1503066-002A

| Parameters: | Analysis Method | DF | MDL | PQL | Results ug/m3 |
|---|---|---|---|---|---|
| Acetone | ETO15 | 1 | 0.88 | 19 | 30.6 |
| tert-Butanol | ETO15 | 1 | 0.91 | 8.4 | 9.74 |
| Toluene | ETO15 | 1 | 0.95 | 1.9 | 18.1 |
| Helium | D1946 | 1 | 0.0022 | 0.010 | 1.4% |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Joyce Bobek
Soma Environmental

**Date Received:** 03/10/15
**Date Reported:** 03/17/15

| | | | |
|---|---|---|---|
| **Client Sample ID:** | SVP-7 | **Lab Sample ID:** | 1503066-001A |
| **Project Name/Location:** | 6039 College Ave, Oakland | **Sample Matrix:** | Air |
| **Project Number:** | | | |
| **Date/Time Sampled:** | 03/09/15 / 12:25 | **Certified Clean WO # :** | |
| **Canister/Tube ID:** | | **Received PSI :** | 0.0 |
| **Collection Volume (L):** | 0.00 | **Corrected PSI :** | 0.0 |
| **Tag Number:** | 6039 College Ave | | |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***The results shown below are reported using their MDL.*** | | | | | | | | | | | |
| Dichlorodifluoromethane | ETO15 | NA | 03/11/15 | 2 | 3.0 | 10 | ND | ND | | 424600 | NA |
| 1,1-Difluoroethane | ETO15 | NA | 03/11/15 | 2 | 1.0 | 2.7 | ND | ND | | 424600 | NA |
| 1,2-Dichlorotetrafluoroethane | ETO15 | NA | 03/11/15 | 2 | 9.9 | 28 | ND | ND | | 424600 | NA |
| Chloromethane | ETO15 | NA | 03/11/15 | 2 | 0.64 | 2.1 | ND | ND | | 424600 | NA |
| Vinyl Chloride | ETO15 | NA | 03/11/15 | 2 | 1.3 | 5.2 | ND | ND | | 424600 | NA |
| 1,3-Butadiene | ETO15 | NA | 03/11/15 | 2 | 0.89 | 2.2 | ND | ND | | 424600 | NA |
| Bromomethane | ETO15 | NA | 03/11/15 | 2 | 1.4 | 3.9 | ND | ND | | 424600 | NA |
| Chloroethane | ETO15 | NA | 03/11/15 | 2 | 1.0 | 2.6 | ND | ND | | 424600 | NA |
| Trichlorofluoromethane | ETO15 | NA | 03/11/15 | 2 | 3.6 | 11 | ND | ND | | 424600 | NA |
| 1,1-Dichloroethene | ETO15 | NA | 03/11/15 | 2 | 1.2 | 4.0 | ND | ND | | 424600 | NA |
| Freon 113 | ETO15 | NA | 03/11/15 | 2 | 1.7 | 7.7 | ND | ND | | 424600 | NA |
| Carbon Disulfide | ETO15 | NA | 03/11/15 | 2 | 1.6 | 6.2 | ND | ND | | 424600 | NA |
| 2-Propanol (Isopropyl Alcohol) | ETO15 | NA | 03/11/15 | 2 | 1.9 | 40 | 18.1 | 7.24 | J | 424600 | NA |
| Methylene Chloride | ETO15 | NA | 03/11/15 | 2 | 1.2 | 56 | ND | ND | | 424600 | NA |
| Acetone | ETO15 | NA | 03/11/15 | 2 | 1.8 | 38 | 39.7 | 16.54 | | 424600 | NA |
| trans-1,2-Dichloroethene | ETO15 | NA | 03/11/15 | 2 | 1.3 | 4.0 | ND | ND | | 424600 | NA |
| Hexane | ETO15 | NA | 03/11/15 | 2 | 1.1 | 3.5 | ND | ND | | 424600 | NA |
| MTBE | ETO15 | NA | 03/11/15 | 2 | 1.7 | 3.6 | ND | ND | | 424600 | NA |
| tert-Butanol | ETO15 | NA | 03/11/15 | 2 | 1.8 | 17 | 16.8 | 4.00 | | 424600 | NA |
| Diisopropyl ether (DIPE) | ETO15 | NA | 03/11/15 | 2 | 1.8 | 4.2 | ND | ND | | 424600 | NA |
| 1,1-Dichloroethane | ETO15 | NA | 03/11/15 | 2 | 1.5 | 4.1 | ND | ND | | 424600 | NA |
| ETBE | ETO15 | NA | 03/11/15 | 2 | 1.4 | 4.2 | ND | ND | | 424600 | NA |
| cis-1,2-Dichloroethene | ETO15 | NA | 03/11/15 | 2 | 1.1 | 4.0 | ND | ND | | 424600 | NA |
| Chloroform | ETO15 | NA | 03/11/15 | 2 | 2.5 | 9.8 | ND | ND | | 424600 | NA |
| Vinyl Acetate | ETO15 | NA | 03/11/15 | 2 | 1.1 | 3.5 | ND | ND | | 424600 | NA |
| Carbon Tetrachloride | ETO15 | NA | 03/11/15 | 2 | 1.7 | 6.3 | ND | ND | | 424600 | NA |
| 1,1,1-Trichloroethane | ETO15 | NA | 03/11/15 | 2 | 1.7 | 5.5 | ND | ND | | 424600 | NA |
| 2-Butanone (MEK) | ETO15 | NA | 03/11/15 | 2 | 1.3 | 3.0 | ND | ND | | 424600 | NA |
| Ethyl Acetate | ETO15 | NA | 03/11/15 | 2 | 1.5 | 3.6 | ND | ND | | 424600 | NA |
| Tetrahydrofuran | ETO15 | NA | 03/11/15 | 2 | 0.60 | 3.0 | ND | ND | | 424600 | NA |
| Benzene | ETO15 | NA | 03/11/15 | 2 | 1.4 | 3.2 | ND | ND | | 424600 | NA |
| TAME | ETO15 | NA | 03/11/15 | 2 | 0.72 | 4.2 | ND | ND | | 424600 | NA |
| 1,2-Dichloroethane (EDC) | ETO15 | NA | 03/11/15 | 2 | 2.0 | 4.1 | ND | ND | | 424600 | NA |
| Trichloroethylene | ETO15 | NA | 03/11/15 | 2 | 2.8 | 11 | ND | ND | | 424600 | NA |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Joyce Bobek
Soma Environmental

**Date Received:** 03/10/15
**Date Reported:** 03/17/15

| | | | |
|---|---|---|---|
| **Client Sample ID:** | SVP-7 | **Lab Sample ID:** | 1503066-001A |
| **Project Name/Location:** | 6039 College Ave, Oakland | **Sample Matrix:** | Air |
| **Project Number:** | | | |
| **Date/Time Sampled:** | 03/09/15 / 12:25 | **Certified Clean WO # :** | |
| **Canister/Tube ID:** | | **Received PSI :** | 0.0 |
| **Collection Volume (L):** | 0.00 | **Corrected PSI :** | 0.0 |
| **Tag Number:** | 6039 College Ave | | |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ETO15 | NA | 03/11/15 | 2 | 2.6 | 9.2 | ND | ND | | 424600 | NA |
| Bromodichloromethane | ETO15 | NA | 03/11/15 | 2 | 1.8 | 6.7 | ND | ND | | 424600 | NA |
| 1,4-Dioxane | ETO15 | NA | 03/11/15 | 2 | 2.5 | 7.2 | ND | ND | | 424600 | NA |
| trans-1,3-Dichloropropene | ETO15 | NA | 03/11/15 | 2 | 1.7 | 4.5 | ND | ND | | 424600 | NA |
| Toluene | ETO15 | NA | 03/11/15 | 2 | 1.9 | 3.8 | 29.7 | 7.82 | | 424600 | NA |
| 4-Methyl-2-Pentanone (MIBK) | ETO15 | NA | 03/11/15 | 2 | 1.7 | 4.1 | 32.0 | 7.80 | | 424600 | NA |
| cis-1,3-Dichloropropene | ETO15 | NA | 03/11/15 | 2 | 2.3 | 4.5 | ND | ND | | 424600 | NA |
| Tetrachloroethylene | ETO15 | NA | 03/11/15 | 2 | 1.8 | 6.8 | ND | ND | | 424600 | NA |
| 1,1,2-Trichloroethane | ETO15 | NA | 03/11/15 | 2 | 1.9 | 5.5 | ND | ND | | 424600 | NA |
| Dibromochloromethane | ETO15 | NA | 03/11/15 | 2 | 3.5 | 8.5 | ND | ND | | 424600 | NA |
| 1,2-Dibromoethane (EDB) | ETO15 | NA | 03/11/15 | 2 | 4.1 | 15 | ND | ND | | 424600 | NA |

**NOTE:** Reporting limits were raised due to limited sample volume received (tedlar bag).

***The results shown below are reported using their MDL.***

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | ETO15 | NA | 03/11/15 | 2 | 2.2 | 8.2 | ND | ND | | 424600 | NA |
| Ethyl Benzene | ETO15 | NA | 03/11/15 | 2 | 2.0 | 4.3 | ND | ND | | 424600 | NA |
| Chlorobenzene | ETO15 | NA | 03/11/15 | 2 | 1.4 | 4.6 | ND | ND | | 424600 | NA |
| 1,1,1,2-Tetrachloroethane | ETO15 | NA | 03/11/15 | 2 | 2.1 | 6.9 | ND | ND | | 424600 | NA |
| m,p-Xylene | ETO15 | NA | 03/11/15 | 2 | 3.2 | 8.6 | ND | ND | | 424600 | NA |
| o-Xylene | ETO15 | NA | 03/11/15 | 2 | 1.6 | 4.3 | ND | ND | | 424600 | NA |
| Styrene | ETO15 | NA | 03/11/15 | 2 | 1.4 | 4.4 | ND | ND | | 424600 | NA |
| Bromoform | ETO15 | NA | 03/11/15 | 2 | 2.2 | 10 | ND | ND | | 424600 | NA |
| 1,1,2,2-Tetrachloroethane | ETO15 | NA | 03/11/15 | 2 | 1.4 | 6.9 | ND | ND | | 424600 | NA |
| 4-Ethyl Toluene | ETO15 | NA | 03/11/15 | 2 | 1.6 | 4.9 | ND | ND | | 424600 | NA |
| 1,3,5-Trimethylbenzene | ETO15 | NA | 03/11/15 | 2 | 1.5 | 4.9 | ND | ND | | 424600 | NA |
| 1,2,4-Trimethylbenzene | ETO15 | NA | 03/11/15 | 2 | 1.4 | 4.9 | ND | ND | | 424600 | NA |
| 1,4-Dichlorobenzene | ETO15 | NA | 03/11/15 | 2 | 1.3 | 6.0 | ND | ND | | 424600 | NA |
| 1,3-Dichlorobenzene | ETO15 | NA | 03/11/15 | 2 | 1.7 | 6.0 | ND | ND | | 424600 | NA |
| 1,2-Dichlorobenzene | ETO15 | NA | 03/11/15 | 2 | 1.8 | 6.0 | ND | ND | | 424600 | NA |
| Hexachlorobutadiene | ETO15 | NA | 03/11/15 | 2 | 4.8 | 11 | ND | ND | | 424600 | NA |
| 1,2,4-Trichlorobenzene | ETO15 | NA | 03/11/15 | 2 | 6.8 | 15 | ND | ND | | 424600 | NA |
| Naphthalene | ETO15 | NA | 03/11/15 | 2 | 2.9 | 10 | ND | ND | | 424600 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 03/11/15 | 2 | 65 | 135 | 104 % | | | 424600 | NA |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Joyce Bobek
Soma Environmental

**Date Received:** 03/10/15
**Date Reported:** 03/17/15

| | | | |
|---|---|---|---|
| **Client Sample ID:** | SVP-7 | **Lab Sample ID:** | 1503066-001A |
| **Project Name/Location:** | 6039 College Ave, Oakland | **Sample Matrix:** | Air |
| **Project Number:** | | | |
| **Date/Time Sampled:** | 03/09/15 / 12:25 | **Certified Clean WO # :** | |
| **Canister/Tube ID:** | | **Received PSI :** | 0.0 |
| **Collection Volume (L):** | 0.00 | **Corrected PSI :** | 0.0 |
| **Tag Number:** | 6039 College Ave | | |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***The results shown below are reported using their MDL.*** | | | | | | | | | | | |
| TPH-Gasoline | ETO15 | NA | 03/11/15 | 2 | 80 | 350 | ND | ND | | 424602 | NA |

**NOTE:** Raised reporting limit - see comment for TO-15VOC analysis.

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL % | Results % | Results ppmv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Helium | D1946 | NA | 03/11/15 | 1 | 0.0022 | 0.010 | 1.4 | | | 424649 | NA |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Joyce Bobek
Soma Environmental

**Date Received:** 03/10/15
**Date Reported:** 03/17/15

| | | | |
|---|---|---|---|
| **Client Sample ID:** | SVP-8 | **Lab Sample ID:** | 1503066-002A |
| **Project Name/Location:** | 6039 College Ave, Oakland | **Sample Matrix:** | Air |
| **Project Number:** | | | |
| **Date/Time Sampled:** | 03/09/15 / 13:19 | **Certified Clean WO # :** | |
| **Canister/Tube ID:** | | **Received PSI :** | 0.0 |
| **Collection Volume (L):** | 0.00 | **Corrected PSI :** | 0.0 |
| **Tag Number:** | 6039 College Ave | | |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ETO15 | NA | 03/11/15 | 1 | 1.5 | 5.0 | ND | ND | | 424600 | NA |
| 1,1-Difluoroethane | ETO15 | NA | 03/11/15 | 1 | 0.50 | 1.4 | ND | ND | | 424600 | NA |
| 1,2-Dichlorotetrafluoroethane | ETO15 | NA | 03/11/15 | 1 | 4.9 | 14 | ND | ND | | 424600 | NA |
| Chloromethane | ETO15 | NA | 03/11/15 | 1 | 0.32 | 1.1 | ND | ND | | 424600 | NA |
| Vinyl Chloride | ETO15 | NA | 03/11/15 | 1 | 0.67 | 2.6 | ND | ND | | 424600 | NA |
| 1,3-Butadiene | ETO15 | NA | 03/11/15 | 1 | 0.45 | 1.1 | ND | ND | | 424600 | NA |
| Bromomethane | ETO15 | NA | 03/11/15 | 1 | 0.72 | 2.0 | ND | ND | | 424600 | NA |
| Chloroethane | ETO15 | NA | 03/11/15 | 1 | 0.50 | 1.3 | ND | ND | | 424600 | NA |
| Trichlorofluoromethane | ETO15 | NA | 03/11/15 | 1 | 1.8 | 5.6 | ND | ND | | 424600 | NA |
| 1,1-Dichloroethene | ETO15 | NA | 03/11/15 | 1 | 0.61 | 2.0 | ND | ND | | 424600 | NA |
| Freon 113 | ETO15 | NA | 03/11/15 | 1 | 0.85 | 3.9 | ND | ND | | 424600 | NA |
| Carbon Disulfide | ETO15 | NA | 03/11/15 | 1 | 0.81 | 3.1 | ND | ND | | 424600 | NA |
| 2-Propanol (Isopropyl Alcohol) | ETO15 | NA | 03/11/15 | 1 | 0.97 | 20 | ND | ND | | 424600 | NA |
| Methylene Chloride | ETO15 | NA | 03/11/15 | 1 | 0.58 | 28 | ND | ND | | 424600 | NA |
| Acetone | ETO15 | NA | 03/11/15 | 1 | 0.88 | 19 | 30.6 | 12.75 | | 424600 | NA |
| trans-1,2-Dichloroethene | ETO15 | NA | 03/11/15 | 1 | 0.64 | 2.0 | ND | ND | | 424600 | NA |
| Hexane | ETO15 | NA | 03/11/15 | 1 | 0.53 | 1.8 | ND | ND | | 424600 | NA |
| MTBE | ETO15 | NA | 03/11/15 | 1 | 0.87 | 1.8 | ND | ND | | 424600 | NA |
| tert-Butanol | ETO15 | NA | 03/11/15 | 1 | 0.91 | 8.4 | 9.74 | 2.32 | | 424600 | NA |
| Diisopropyl ether (DIPE) | ETO15 | NA | 03/11/15 | 1 | 0.88 | 2.1 | ND | ND | | 424600 | NA |
| 1,1-Dichloroethane | ETO15 | NA | 03/11/15 | 1 | 0.75 | 2.1 | ND | ND | | 424600 | NA |
| ETBE | ETO15 | NA | 03/11/15 | 1 | 0.68 | 2.1 | ND | ND | | 424600 | NA |
| cis-1,2-Dichloroethene | ETO15 | NA | 03/11/15 | 1 | 0.54 | 2.0 | ND | ND | | 424600 | NA |
| Chloroform | ETO15 | NA | 03/11/15 | 1 | 1.2 | 4.9 | ND | ND | | 424600 | NA |
| Vinyl Acetate | ETO15 | NA | 03/11/15 | 1 | 0.57 | 1.8 | ND | ND | | 424600 | NA |
| Carbon Tetrachloride | ETO15 | NA | 03/11/15 | 1 | 0.86 | 3.2 | ND | ND | | 424600 | NA |
| 1,1,1-Trichloroethane | ETO15 | NA | 03/11/15 | 1 | 0.85 | 2.8 | ND | ND | | 424600 | NA |
| 2-Butanone (MEK) | ETO15 | NA | 03/11/15 | 1 | 0.63 | 1.5 | ND | ND | | 424600 | NA |
| Ethyl Acetate | ETO15 | NA | 03/11/15 | 1 | 0.74 | 1.8 | ND | ND | | 424600 | NA |
| Tetrahydrofuran | ETO15 | NA | 03/11/15 | 1 | 0.30 | 1.5 | ND | ND | | 424600 | NA |
| Benzene | ETO15 | NA | 03/11/15 | 1 | 0.69 | 1.6 | ND | ND | | 424600 | NA |
| TAME | ETO15 | NA | 03/11/15 | 1 | 0.36 | 2.1 | ND | ND | | 424600 | NA |
| 1,2-Dichloroethane (EDC) | ETO15 | NA | 03/11/15 | 1 | 0.99 | 2.1 | ND | ND | | 424600 | NA |
| Trichloroethylene | ETO15 | NA | 03/11/15 | 1 | 1.4 | 5.4 | ND | ND | | 424600 | NA |
| 1,2-Dichloropropane | ETO15 | NA | 03/11/15 | 1 | 1.3 | 4.6 | ND | ND | | 424600 | NA |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Joyce Bobek
Soma Environmental

**Date Received:** 03/10/15
**Date Reported:** 03/17/15

| | | | |
|---|---|---|---|
| **Client Sample ID:** | SVP-8 | **Lab Sample ID:** | 1503066-002A |
| **Project Name/Location:** | 6039 College Ave, Oakland | **Sample Matrix:** | Air |
| **Project Number:** | | | |
| **Date/Time Sampled:** | 03/09/15 / 13:19 | **Certified Clean WO # :** | |
| **Canister/Tube ID:** | | **Received PSI :** | 0.0 |
| **Collection Volume (L):** | 0.00 | **Corrected PSI :** | 0.0 |
| **Tag Number:** | 6039 College Ave | | |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ETO15 | NA | 03/11/15 | 1 | 0.89 | 3.4 | ND | ND | | 424600 | NA |
| 1,4-Dioxane | ETO15 | NA | 03/11/15 | 1 | 1.2 | 3.6 | ND | ND | | 424600 | NA |
| trans-1,3-Dichloropropene | ETO15 | NA | 03/11/15 | 1 | 0.87 | 2.3 | ND | ND | | 424600 | NA |
| Toluene | ETO15 | NA | 03/11/15 | 1 | 0.95 | 1.9 | 18.1 | 4.76 | | 424600 | NA |
| 4-Methyl-2-Pentanone (MIBK) | ETO15 | NA | 03/11/15 | 1 | 0.85 | 2.1 | ND | ND | | 424600 | NA |
| cis-1,3-Dichloropropene | ETO15 | NA | 03/11/15 | 1 | 1.1 | 2.3 | ND | ND | | 424600 | NA |
| Tetrachloroethylene | ETO15 | NA | 03/11/15 | 1 | 0.91 | 3.4 | ND | ND | | 424600 | NA |
| 1,1,2-Trichloroethane | ETO15 | NA | 03/11/15 | 1 | 0.93 | 2.8 | ND | ND | | 424600 | NA |
| Dibromochloromethane | ETO15 | NA | 03/11/15 | 1 | 1.7 | 4.3 | ND | ND | | 424600 | NA |
| 1,2-Dibromoethane (EDB) | ETO15 | NA | 03/11/15 | 1 | 2.0 | 7.7 | ND | ND | | 424600 | NA |
| 2-Hexanone | ETO15 | NA | 03/11/15 | 1 | 1.1 | 4.1 | ND | ND | | 424600 | NA |
| Ethyl Benzene | ETO15 | NA | 03/11/15 | 1 | 0.99 | 2.2 | ND | ND | | 424600 | NA |
| Chlorobenzene | ETO15 | NA | 03/11/15 | 1 | 0.71 | 2.3 | ND | ND | | 424600 | NA |
| 1,1,1,2-Tetrachloroethane | ETO15 | NA | 03/11/15 | 1 | 1.0 | 3.5 | ND | ND | | 424600 | NA |
| m,p-Xylene | ETO15 | NA | 03/11/15 | 1 | 1.6 | 4.3 | ND | ND | | 424600 | NA |
| o-Xylene | ETO15 | NA | 03/11/15 | 1 | 0.81 | 2.2 | ND | ND | | 424600 | NA |
| Styrene | ETO15 | NA | 03/11/15 | 1 | 0.69 | 2.2 | ND | ND | | 424600 | NA |
| Bromoform | ETO15 | NA | 03/11/15 | 1 | 1.1 | 5.0 | ND | ND | | 424600 | NA |
| 1,1,2,2-Tetrachloroethane | ETO15 | NA | 03/11/15 | 1 | 0.70 | 3.5 | ND | ND | | 424600 | NA |
| 4-Ethyl Toluene | ETO15 | NA | 03/11/15 | 1 | 0.82 | 2.5 | ND | ND | | 424600 | NA |
| 1,3,5-Trimethylbenzene | ETO15 | NA | 03/11/15 | 1 | 0.76 | 2.5 | ND | ND | | 424600 | NA |
| 1,2,4-Trimethylbenzene | ETO15 | NA | 03/11/15 | 1 | 0.69 | 2.5 | ND | ND | | 424600 | NA |
| 1,4-Dichlorobenzene | ETO15 | NA | 03/11/15 | 1 | 0.65 | 3.0 | ND | ND | | 424600 | NA |
| 1,3-Dichlorobenzene | ETO15 | NA | 03/11/15 | 1 | 0.84 | 3.0 | ND | ND | | 424600 | NA |
| 1,2-Dichlorobenzene | ETO15 | NA | 03/11/15 | 1 | 0.91 | 3.0 | ND | ND | | 424600 | NA |
| Hexachlorobutadiene | ETO15 | NA | 03/11/15 | 1 | 2.4 | 5.5 | ND | ND | | 424600 | NA |
| 1,2,4-Trichlorobenzene | ETO15 | NA | 03/11/15 | 1 | 3.4 | 7.4 | ND | ND | | 424600 | NA |
| Naphthalene | ETO15 | NA | 03/11/15 | 1 | 1.5 | 5.2 | ND | ND | | 424600 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 03/11/15 | 1 | 65 | 135 | 104 % | | | 424600 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH-Gasoline | ETO15 | NA | 03/11/15 | 1 | 40 | 180 | ND | ND | | 424602 | NA |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Joyce Bobek
Soma Environmental

**Date Received:** 03/10/15
**Date Reported:** 03/17/15

| | | | |
|---|---|---|---|
| **Client Sample ID:** | SVP-8 | **Lab Sample ID:** | 1503066-002A |
| **Project Name/Location:** | 6039 College Ave, Oakland | **Sample Matrix:** | Air |
| **Project Number:** | | | |
| **Date/Time Sampled:** | 03/09/15 / 13:19 | **Certified Clean WO # :** | |
| **Canister/Tube ID:** | | **Received PSI :** | 0.0 |
| **Collection Volume (L):** | 0.00 | **Corrected PSI :** | 0.0 |
| **Tag Number:** | 6039 College Ave | | |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL % | Results % | Results ppmv | Lab Qualifier | Analytical Batch | Prep Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Helium | D1946 | NA | 03/11/15 | 1 | 0.0022 | 0.010 | 1.4 | | | 424649 | NA |

Torrent LABORATORY, INC.

# MB Summary Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1503066 | **Prep Method:** | NA | **Prep Date:** | NA | **Prep Batch:** | NA |
| **Matrix:** | Air | **Analytical Method:** | ETO15 | **Analyzed Date:** | 03/11/15 | **Analytical Batch:** | 424600 |
| **Units:** | ppbv | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.30 | 1.00 | ND | | |
| 1,1-Difluoroethane | 0.18 | 10.0 | ND | | |
| 1,2-Dichlorotetrafluoroethane | 0.70 | 2.00 | ND | | |
| Chloromethane | 0.15 | 0.500 | ND | | |
| Vinyl Chloride | 0.26 | 1.00 | ND | | |
| 1,3-Butadiene | 0.20 | 0.500 | ND | | |
| Bromomethane | 0.18 | 0.500 | ND | | |
| Chloroethane | 0.19 | 0.500 | ND | | |
| Trichlorofluoromethane | 0.32 | 1.00 | ND | | |
| 1,1-Dichloroethene | 0.15 | 0.500 | ND | | |
| Freon 113 | 0.11 | 0.500 | ND | | |
| Carbon Disulfide | 0.26 | 1.00 | ND | | |
| 2-Propanol (Isopropyl Alcohol) | 0.39 | 10.0 | ND | | |
| Methylene Chloride | 0.17 | 8.00 | ND | | |
| Acetone | 0.37 | 8.00 | ND | | |
| trans-1,2-Dichloroethene | 0.16 | 0.500 | ND | | |
| Hexane | 0.15 | 0.500 | ND | | |
| MTBE | 0.24 | 0.500 | ND | | |
| tert-Butanol | 0.22 | 2.00 | ND | | |
| Diisopropyl ether (DIPE) | 0.21 | 0.500 | ND | | |
| 1,1-Dichloroethane | 0.18 | 0.500 | ND | | |
| ETBE | 0.16 | 0.500 | ND | | |
| cis-1,2-Dichloroethene | 0.13 | 0.500 | ND | | |
| Chloroform | 0.25 | 1.00 | ND | | |
| Vinyl Acetate | 0.16 | 0.500 | ND | | |
| Carbon Tetrachloride | 0.14 | 0.500 | ND | | |
| 1,1,1-Trichloroethane | 0.15 | 0.500 | ND | | |
| 2-Butanone (MEK) | 0.21 | 0.500 | ND | | |
| Ethyl Acetate | 0.21 | 0.500 | ND | | |
| Tetrahydrofuran | 0.10 | 0.500 | ND | | |
| Benzene | 0.21 | 0.500 | ND | | |
| TAME | 0.086 | 0.500 | ND | | |
| 1,2-Dichloroethane (EDC) | 0.24 | 0.500 | ND | | |
| Trichloroethylene | 0.26 | 1.00 | ND | | |
| 1,2-Dichloropropane | 0.29 | 1.00 | ND | | |
| Bromodichloromethane | 0.13 | 0.500 | ND | | |
| 1,4-Dioxane | 0.35 | 1.00 | ND | | |
| trans-1,3-Dichloropropene | 0.19 | 0.500 | ND | | |
| Toluene | 0.25 | 0.500 | ND | | |
| 4-Methyl-2-Pentanone (MIBK) | 0.21 | 0.500 | ND | | |
| cis-1,3-Dichloropropene | 0.25 | 0.500 | ND | | |

Torrent LABORATORY, INC.

# MB Summary Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1503066 | **Prep Method:** | NA | **Prep Date:** | NA | **Prep Batch:** | NA |
| **Matrix:** | Air | **Analytical Method:** | ETO15 | **Analyzed Date:** | 03/11/15 | **Analytical Batch:** | 424600 |
| **Units:** | ppbv | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|---|---|---|---|---|
| Tetrachloroethylene | 0.13 | 0.500 | ND | |
| 1,1,2-Trichloroethane | 0.17 | 0.500 | ND | |
| Dibromochloromethane | 0.20 | 0.500 | ND | |
| 1,2-Dibromoethane (EDB) | 0.27 | 1.00 | ND | |
| 2-Hexanone | 0.27 | 1.00 | ND | |
| Ethyl Benzene | 0.23 | 0.500 | ND | |
| Chlorobenzene | 0.15 | 0.500 | ND | |
| 1,1,1,2-Tetrachloroethane | 0.15 | 0.500 | ND | |
| m,p-Xylene | 0.38 | 1.00 | ND | |
| o-Xylene | 0.19 | 0.500 | ND | |
| Styrene | 0.16 | 0.500 | ND | |
| Bromoform | 0.11 | 0.500 | ND | |
| 1,1,2,2-Tetrachloroethane | 0.10 | 0.500 | ND | |
| 4-Ethyl Toluene | 0.17 | 0.500 | ND | |
| 1,3,5-Trimethylbenzene | 0.15 | 0.500 | ND | |
| 1,2,4-Trimethylbenzene | 0.14 | 0.500 | ND | |
| 1,4-Dichlorobenzene | 0.11 | 0.500 | ND | |
| 1,3-Dichlorobenzene | 0.14 | 0.500 | ND | |
| 1,2-Dichlorobenzene | 0.15 | 0.500 | ND | |
| Hexachlorobutadiene | 0.22 | 0.500 | ND | |
| 1,2,4-Trichlorobenzene | 0.46 | 1.00 | ND | |
| Naphthalene | 0.28 | 1.00 | ND | |
| (S) 4-Bromofluorobenzene | | | 105 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1503066 | **Prep Method:** | NA | **Prep Date:** | NA | **Prep Batch:** | NA |
| **Matrix:** | Air | **Analytical Method:** | ETO15 | **Analyzed Date:** | 03/11/15 | **Analytical Batch:** | 424602 |
| **Units:** | ppbv | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|---|---|---|---|---|
| TPH-Gasoline | 11 | 50.0 | ND | |

Torrent LABORATORY, INC.

# MB Summary Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1503066 | **Prep Method:** | NA | **Prep Date:** | NA | **Prep Batch:** | NA |
| **Matrix:** | Air | **Analytical Method:** | D1946 | **Analyzed Date:** | 03/11/15 | **Analytical Batch:** | 424649 |
| **Units:** | % | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|---|---|---|---|---|---|
| Helium | 0.0022 | 0.010 | 0.0036 | | |

Torrent LABORATORY, INC.

# LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1503066 | **Prep Method:** | NA | **Prep Date:** | NA | **Prep Batch:** | NA |
| **Matrix:** | Air | **Analytical Method:** | ETO15 | **Analyzed Date:** | 03/11/15 | **Analytical Batch:** | 424600 |
| **Units:** | ppbv | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.15 | 0.500 | ND | 8 | 86.6 | 89.6 | 3.40 | 65 - 135 | 30 | |
| Benzene | 0.21 | 0.500 | ND | 8 | 87.9 | 94.9 | 7.66 | 65 - 135 | 30 | |
| Trichloroethylene | 0.26 | 1.00 | ND | 8 | 94.6 | 92.9 | 1.87 | 65 - 135 | 30 | |
| Toluene | 0.25 | 0.500 | ND | 8 | 95.6 | 94.9 | 0.787 | 65 - 135 | 30 | |
| Chlorobenzene | 0.15 | 0.500 | ND | 8 | 99.6 | 100 | 0.501 | 65 - 135 | 30 | |
| (S) 4-Bromofluorobenzene | | | ND | 8 | 92.5 | 91.3 | | 65 - 135 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1503066 | **Prep Method:** | NA | **Prep Date:** | NA | **Prep Batch:** | NA |
| **Matrix:** | Air | **Analytical Method:** | ETO15 | **Analyzed Date:** | 03/11/15 | **Analytical Batch:** | 424602 |
| **Units:** | ppbv | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-Gasoline | 11 | 50.0 | ND | 243 | 96.3 | 91.5 | 5.17 | 50 - 150 | 30 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1503066 | **Prep Method:** | NA | **Prep Date:** | NA | **Prep Batch:** | NA |
| **Matrix:** | Air | **Analytical Method:** | D1946 | **Analyzed Date:** | 03/11/15 | **Analytical Batch:** | 424649 |
| **Units:** | % | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.0022 | 0.010 | 0.0036 | 1000 | 104 | 102 | 1.98 | 65 - 135 | 30 | |

# Laboratory Qualifiers and Definitions

## DEFINITIONS:

| |
|---|
| **Accuracy/Bias (% Recovery)** - The closeness of agreement between an observed value and an accepted reference value. |
| **Blank (Method/Preparation Blank)** -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process. |
| **Duplicate** - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD) |
| **Laboratory Control Sample (LCS ad LCSD)** - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance. |
| **Matrix** - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc) |
| **Matrix Spike (MS/MSD)** - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix. |
| **Method Detection Limit (MDL)** - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero |
| **Practical Quantitation Limit (PQL)** - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes. |
| **Precision (%RPD)** - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates |
| **Surrogate (S) or (Surr)** - 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. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis |
| **Tentatively Identified Compound (TIC) -** A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation. |
| **Units:** the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** ( equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** ( concentration found on the surface of a single Wipe usually taken over a 100cm2 surface) |

## LABORATORY QUALIFIERS:

**B** - Indicates when the anlayte is found in the associated method or preparation blank
**D** - Surrogate is not recoverable due to the necessary dilution of the sample
**E** - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
**H**- Indicates that the recommended holding time for the analyte or compound has been exceeded
**J**- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
**NA** - Not Analyzed
**N/A** - Not Applicable
**NR** - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
**R**- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
**S**- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
**X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

# Sample Receipt Checklist

Client Name: Soma Environmental

Project Name: 6039 College Ave, Oakland

Work Order No.: 1503066

Date and Time Received: 3/10/2015 11:30

Received By: ldi

Physically Logged By: ldi

Checklist Completed By: ldi

Carrier Name: FedEx

**Chain of Custody (COC) Information**

| | |
|---|---|
| Chain of custody present? | Yes |
| Chain of custody signed when relinquished and received? | Yes |
| Chain of custody agrees with sample labels? | Yes |
| Custody seals intact on sample bottles? | Not Present |

**Sample Receipt Information**

| | |
|---|---|
| Custody seals intact on shipping container/cooler? | Not Present |
| Shipping Container/Cooler In Good Condition? | Yes |
| Samples in proper container/bottle? | Yes |
| Samples containers intact? | Yes |
| Sufficient sample volume for indicated test? | Yes |

**Sample Preservation and Hold Time (HT) Information**

| | | | |
|---|---|---|---|
| All samples received within holding time? | Yes | | |
| Container/Temp Blank temperature in compliance? | Yes | Temperature: | °C |
| Water-VOA vials have zero headspace? | No VOA vials submitted | | |
| Water-pH acceptable upon receipt? | N/A | | |

pH Checked by: n/a

pH Adjusted by: n/a

Torrent LABORATORY, INC.

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

# CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO: 1503066

| | |
|---|---|
| Company Name: **SOMA Environmental Engineering, Inc.** | Location of Sampling: **6039 College Ave., Oakland** |
| Address: **6620 Owens Drive, Suite A** | Purpose: **Soil Vapor Samples** |
| City: **Pleasanton** State: **CA** Zip Code: **94588** | Special Instructions / Comments: **Hold time sensitive** |
| Telephone: **925-734-6400** FAX: **925-734-6401** | |
| REPORT TO: **Joyce Bobek** SAMPLER: **Lizzie Hightower** | P.O. #: **6032** EMAIL: **jbobek@somaenv.com** |

**TURNAROUND TIME:**
☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☑ 5 Work Days ☐ 1 Work Day ☐ Other

**SAMPLE TYPE:**
☐ Storm Water ☑ Air
☐ Waste Water ☐ Other
☐ Ground Water
☐ Soil

**REPORT FORMAT:**
☐ QC Level IV
☑ EDF
☐ Excel / EDD

**ANALYSIS REQUESTED**

| LAB ID | CLIENT'S SAMPLE I.D. | DATE / TIME SAMPLED | MATRIX | # OF CONT | CONT TYPE | TO-3 | TO-15 | Helium | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 001A | SVP-7 | 3/9/15 12:25 | A | 1 | tedlar | ✓ | ✓ | ✓ | |
| 002A | SVP-8 | 3/9/15 13:19 | A | 1 | tedlar | ✓ | ✓ | ✓ | |

REC'd LIQ LBL LIR

| | Relinquished By: | Print: | Date: | Time: | Received By: | Print: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|
| 1 | | E. Hightower | 3/10/15 | 09:10 | | Tomas Wilson | 3/10/15 | 9:10 AM |
| 2 | Fed Ex City | | 3-10-15 | 11:30 | | L. D. Tukal | 3-10-15 | 11:30 |

Were Samples Received in Good Condition? ☐ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment: Fed Ex City Sample seals intact? ☐ Yes ☐ NO ☑ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrange-ments are made.

Page 1 of 1

Log In By: _____ Date: _____ Log In Reviewed By: _____ Date: _____

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 264944**
**ANALYTICAL REPORT**

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 6032
Location : 6039 College Ave, Oakland
Level : II

| Sample ID | Lab ID | Sample ID | Lab ID |
|---|---|---|---|
| SB-12 @ 1FT | 264944-001 | SB-14 @ 15.5FT | 264944-017 |
| SB-12 @ 3FT | 264944-002 | SB-14 @ 20.5FT | 264944-018 |
| SB-12 @ 5.5FT | 264944-003 | SB-14 @ 25.5FT | 264944-019 |
| SB-12 @ 10.5FT | 264944-004 | SB-14 @ 30.5FT | 264944-020 |
| SB-12 @ 15.5FT | 264944-005 | SB-14 @ 34FT | 264944-021 |
| SB-12 @ 20.5FT | 264944-006 | SB-13 @ 5.5FT | 264944-022 |
| SB-12 @ 25.5FT | 264944-007 | SB-13 @ 10.5FT | 264944-023 |
| SB-12 @ 30.5FT | 264944-008 | SB-13 @ 15.5FT | 264944-024 |
| SB-12 @ 34.5FT | 264944-009 | SB-13 @ 20.5FT | 264944-025 |
| SB-13 @ 1FT | 264944-010 | SB-13 @ 25.5FT | 264944-026 |
| SB-13 @ 2FT | 264944-011 | SB-13 @ 30.5FT | 264944-027 |
| SB-13 @ 3FT | 264944-012 | SB-13 @ 34FT | 264944-028 |
| SB-14 @ 1FT | 264944-013 | SB-12 | 264944-029 |
| SB-14 @ 3FT | 264944-014 | SB-13 | 264944-030 |
| SB-14 @ 5.5FT | 264944-015 | SB-14 | 264944-031 |
| SB-14 @ 10.5FT | 264944-016 | | |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/10/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | **264944** |
| Client: | **SOMA Environmental Engineering Inc.** |
| Project: | **6032** |
| Location: | **6039 College Ave, Oakland** |
| Request Date: | **02/27/15** |
| Samples Received: | **02/27/15** |

This data package contains sample and QC results for twenty eight soil samples and three water samples, requested for the above referenced project on 02/27/15. The samples were received cold and intact.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**
No analytical problems were encountered.

**TPH-Extractables by GC (EPA 8015B):**
High surrogate recovery was observed for o-terphenyl in the method blank for batch 220926; no target analytes were detected in the sample. SB-13 @ 2FT (lab # 264944-011) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B) Water:**
No analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B) Soil:**
High surrogate recovery was observed for bromofluorobenzene in SB-14 @ 15.5FT (lab # 264944-017). Low surrogate recoveries were observed for 1,2-dichloroethane-d4 in the MS of SB-12 @ 30.5FT (lab # 264944-008) and the MSD of SB-14 @ 30.5FT (lab # 264944-020). SB-12 @ 10.5FT (lab # 264944-004) and SB-12 @ 15.5FT (lab # 264944-005) were diluted due to high hydrocarbons. No other analytical problems were encountered.

**Metals (EPA 6010B):**
No analytical problems were encountered.

# CHAIN OF CUSTODY

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Berkeley, CA 94710

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Fax (510) 486-0532



Chain of Custody # _____

C&T LOGIN # 264944

Project No: 6032
Project Name: 6039 College Ave, Oakland
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Lizzie Hightower
Report To: Joyce Bobek
Company: SOMA Environmental
Telephone: 925-734-6401
Email: jbobek@somaenv.com

| Lab No. | Sample ID. | SAMPLING | | MATRIX | | | | # of Containers | CHEMICAL PRESERVATIVE | | | | | ANALYTICAL REQUEST | | | | |

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Project Name: 6039 College Ave, Oakland
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
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Telephone: 925-734-6400
Email: jbobek@somaenv.com

| Lab No. | Sample ID. | SAMPLING | | MATRIX | | | | # of Containers | CHEMICAL PRESERVATIVE | | | | | ANALYTICAL REQUEST | | | | |

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Chain of Custody #

C&T LOGIN # 264944

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Project Name: 6039 College Ave, Oakland
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Lizzie Hightower
Report To: Joyce Bobek
Company: SOMA Environmental
Telephone: 925-734-6400
Email: jbobek@somaenv.com

ANALYTICAL REQUEST

| Lab No. | Sample ID. | Sampling: Date Collected | Sampling: Time Collected | Matrix: Water | Matrix: Solid | # of Containers | Chemical Preservative: HCl | H2SO4 | HNO3 | NaOH | None | TPH-g, TPH-d 8015 | BTEX, Pb Scavengers, Naphthalene, MtBE 8260 | Total Lead 6010 | TPH-g 8260 | BTEX, Pb Scavengers, Naphthalene, MtBE 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | SB-13 @ 30.5 ft | 2/27/15 | 11:44 | | X | 1 | | | | | X | X | X | X | | |
| 28 | SB-13 @ 34 ft | 2/27/15 | 11:51 | | X | 1 | | | | | X | X | X | X | | |
| 29 | SB-12 | 2/25/15 | 15:18 | X | | 4 | X | | | | | | | | X | X |
| 30 | SB-13 | 2/27/15 | 11:07 | X | | 4 | X | | | | | | | | X | X |
| 31 | SB-14 | 2/26/15 | 09:14 | X | | 4 | X | | | | | | | | X | X |

Notes:

SAMPLE RECEIPT
☐ Intact
☐ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] DATE: 2/27/15 TIME: 13:25
DATE: TIME:
DATE: TIME:

RECEIVED BY:
[signature] DATE: 2/27/15 TIME: 13:25
DATE: TIME:
DATE: TIME:

**COOLER RECEIPT CHECKLIST** Curtis & Tompkins, Ltd.

Login # 264944 Date Received 2/27/15 Number of coolers 1
Client SCMA Project 0032

Date Opened 2/27 By (print) " (sign) "
Date Logged in 2/27 By (print) " (sign) "

1. Did cooler come with a shipping slip (airbill, etc) ____ YES (NO)
Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) ____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 3.5

☒ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES (NO)
If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ (YES) NO
10. Are there any missing / extra samples? ____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? ____ (YES) NO
12. Are sample labels present, in good condition and complete? ____ (YES) NO
13. Do the sample labels agree with custody papers? ____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? ____ (YES) NO
15. Are the samples appropriately preserved? ____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? ____ YES NO (N/A)
17. Did you document your preservative check? ____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? ____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES (NO)
If YES, Who was called? ____ By ____ Date: ____

COMMENTS

Rev 10, 9/12

Curtis & Tompkins, Ltd.

# Detections Summary for 264944

Results for any subcontracted analyses are not included in this summary.

Client : SOMA Environmental Engineering Inc.
Project : 6032
Location : 6039 College Ave, Oakland

## Client Sample ID : SB-12 @ 1FT  Laboratory Sample ID : 264944-001

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 9.6 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 6.9 | | 0.26 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

## Client Sample ID : SB-12 @ 3FT  Laboratory Sample ID : 264944-002

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 10 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 10 | | 0.27 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

## Client Sample ID : SB-12 @ 5.5FT  Laboratory Sample ID : 264944-003

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 21 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 9.8 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

## Client Sample ID : SB-12 @ 10.5FT  Laboratory Sample ID : 264944-004

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 110 | Y | 5.0 | mg/Kg | As Recd | 25.00 | EPA 8015B | EPA 5030B |
| Diesel C10-C24 | 350 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 6.5 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

## Client Sample ID : SB-12 @ 15.5FT  Laboratory Sample ID : 264944-005

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 620 | Y | 100 | mg/Kg | As Recd | 500.0 | EPA 8015B | EPA 5030B |
| Diesel C10-C24 | 620 | | 5.0 | mg/Kg | As Recd | 5.000 | EPA 8015B | EPA 3550B |
| Benzene | 40 | | 25 | ug/Kg | As Recd | 5.000 | EPA 8260B | EPA 5030B |
| Naphthalene | 250 | | 25 | ug/Kg | As Recd | 5.000 | EPA 8260B | EPA 5030B |
| Lead | 6.0 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Curtis & Tompkins, Ltd.

Client Sample ID : SB-12 @ 20.5FT Laboratory Sample ID : 264944-006

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 23 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| tert-Butyl Alcohol (TBA) | 1,100 | | 94 | ug/Kg | As Recd | 0.9398 | EPA 8260B | EPA 5030B |
| Lead | 8.4 | | 0.23 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-12 @ 25.5FT Laboratory Sample ID : 264944-007

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Lead | 8.4 | | 0.23 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-12 @ 30.5FT Laboratory Sample ID : 264944-008

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Lead | 7.1 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-12 @ 34.5FT Laboratory Sample ID : 264944-009

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Lead | 7.1 | | 0.25 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 1FT Laboratory Sample ID : 264944-010

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 13 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 8.5 | | 0.27 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 2FT Laboratory Sample ID : 264944-011

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 18 | Y | 3.0 | mg/Kg | As Recd | 3.000 | EPA 8015B | EPA 3550B |
| Lead | 11 | | 0.26 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 3FT Laboratory Sample ID : 264944-012

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 12 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 5.2 | | 0.26 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 1FT Laboratory Sample ID : 264944-013

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 6.1 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 4.3 | | 0.27 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

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Client Sample ID : SB-14 @ 3FT Laboratory Sample ID : 264944-014

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 5.9 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 6.4 | | 0.23 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 5.5FT Laboratory Sample ID : 264944-015

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 29 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 13 | | 0.26 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 10.5FT Laboratory Sample ID : 264944-016

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 13 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 5030B |
| Diesel C10-C24 | 300 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 5.4 | | 0.27 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 15.5FT Laboratory Sample ID : 264944-017

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 1,700 | | 200 | mg/Kg | As Recd | 1000 | EPA 8015B | EPA 5030B |
| Diesel C10-C24 | 1,200 | | 10 | mg/Kg | As Recd | 10.00 | EPA 8015B | EPA 3550B |
| Benzene | 260 | | 250 | ug/Kg | As Recd | 50.00 | EPA 8260B | EPA 5030B |
| Ethylbenzene | 2,300 | | 250 | ug/Kg | As Recd | 50.00 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 26,000 | | 500 | ug/Kg | As Recd | 100.0 | EPA 8260B | EPA 5030B |
| Naphthalene | 12,000 | | 500 | ug/Kg | As Recd | 100.0 | EPA 8260B | EPA 5030B |
| Lead | 6.0 | | 0.27 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 20.5FT Laboratory Sample ID : 264944-018

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 44 | | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| tert-Butyl Alcohol (TBA) | 1,200 | | 93 | ug/Kg | As Recd | 0.9259 | EPA 8260B | EPA 5030B |
| Lead | 9.0 | | 0.25 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 25.5FT Laboratory Sample ID : 264944-019

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 1.9 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 6.7 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 30.5FT Laboratory Sample ID : 264944-020

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Lead | 5.4 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-14 @ 34FT Laboratory Sample ID : 264944-021

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Lead | 4.0 | | 0.23 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 5.5FT Laboratory Sample ID : 264944-022

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2.9 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 3.3 | | 0.25 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 10.5FT Laboratory Sample ID : 264944-023

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Lead | 2.5 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 15.5FT Laboratory Sample ID : 264944-024

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 14 | Y | 1.1 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 5030B |
| Diesel C10-C24 | 11 | Y | 0.99 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 3.7 | | 0.23 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 20.5FT Laboratory Sample ID : 264944-025

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 8.2 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 4.6 | | 0.26 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 25.5FT Laboratory Sample ID : 264944-026

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 3.3 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 4.7 | | 0.24 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 30.5FT Laboratory Sample ID : 264944-027

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2.5 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 5.0 | | 0.27 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-13 @ 34FT Laboratory Sample ID : 264944-028

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2.4 | Y | 1.0 | mg/Kg | As Recd | 1.000 | EPA 8015B | EPA 3550B |
| Lead | 5.5 | | 0.23 | mg/Kg | As Recd | 1.000 | EPA 6010B | EPA 3050B |

Client Sample ID : SB-12 Laboratory Sample ID : 264944-029

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.82 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : SB-13 Laboratory Sample ID : 264944-030

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 99 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Client Sample ID : SB-14 Laboratory Sample ID : 264944-031

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 62 | | 50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Benzene | 3.0 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| m,p-Xylenes | 2.2 | | 0.50 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |

Y = Sample exhibits chromatographic pattern which does not resemble standard

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# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 1FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-001 | Analyzed: | 03/02/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.99 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 3FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-002 | Analyzed: | 03/02/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.98 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 89 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 5.5FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-003 | Analyzed: | 03/02/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 10.5FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-004 | Analyzed: | 03/03/15 |
| Diln Fac: | 25.00 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 110 Y | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 134 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 15.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-005 | Analyzed: | 03/04/15 |
| Diln Fac: | 500.0 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 620 Y | 100 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 101 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 20.5FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-006 | Analyzed: | 03/02/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 95 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 25.5FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-007 | Analyzed: | 03/02/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.97 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 30.5FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-008 | Analyzed: | 03/02/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 34.5FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-009 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.1 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 93 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 1FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/23/15 |
| Lab ID: | 264944-010 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.99 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 92 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 2FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/23/15 |
| Lab ID: | 264944-011 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 3FT | Batch#: | 220927 |
| Type: | SAMPLE | Sampled: | 02/23/15 |
| Lab ID: | 264944-012 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.1 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 1FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-013 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.96 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 3FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-014 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.94 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 5.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-015 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.1 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 89 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 10.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-016 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 13 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 122 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 15.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-017 | Analyzed: | 03/04/15 |
| Diln Fac: | 1,000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 1,700 | 200 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 106 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 20.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-018 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.97 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 93 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 25.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-019 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.1 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 93 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 30.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-020 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 95 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 34FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-021 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.94 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 5.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-022 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 89 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 10.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-023 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.94 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 99 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 15.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-024 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 14 Y | 1.1 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 123 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 20.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-025 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.1 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 96 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 25.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-026 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.1 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 30.5FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-027 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.95 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 96 | 78-138 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 34FT | Batch#: | 220966 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-028 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | Received: | 02/27/15 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Batch#: | 220927 |
| Lab ID: | QC779163 | Analyzed: | 03/02/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Batch#: | 220966 |
| Lab ID: | QC779310 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 0.20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779162 | Batch#: | 220927 |
| Matrix: | Soil | Analyzed: | 03/02/15 |
| Units: | mg/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 1.000 | 0.9694 | 97 | 80-121 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 93 | 78-138 |

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Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Diln Fac: | 1.000 |
| MSS Lab ID: | 264951-001 | Batch#: | 220927 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | mg/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/02/15 |

Type: MS Lab ID: QC779164

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Gasoline C7-C12 | 0.06308 | 10.53 | 9.269 | 87 | 50-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 96 | 78-138 |

Type: MSD Lab ID: QC779165

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 10.87 | 8.007 | 73 | 50-120 | 18 | 31 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 95 | 78-138 |

RPD= Relative Percent Difference

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Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779309 | Batch#: | 220966 |
| Matrix: | Soil | Analyzed: | 03/03/15 |
| Units: | mg/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 1.000 | 0.9600 | 96 | 80-121 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 94 | 78-138 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Field ID: | SB-14 @ 25.5FT | Diln Fac: | 1.000 |
| MSS Lab ID: | 264944-019 | Batch#: | 220966 |
| Matrix: | Soil | Sampled: | 02/26/15 |
| Units: | mg/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

Type: MS Lab ID: QC779311

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Gasoline C7-C12 | <0.05558 | 10.10 | 8.940 | 89 | 50-120 |

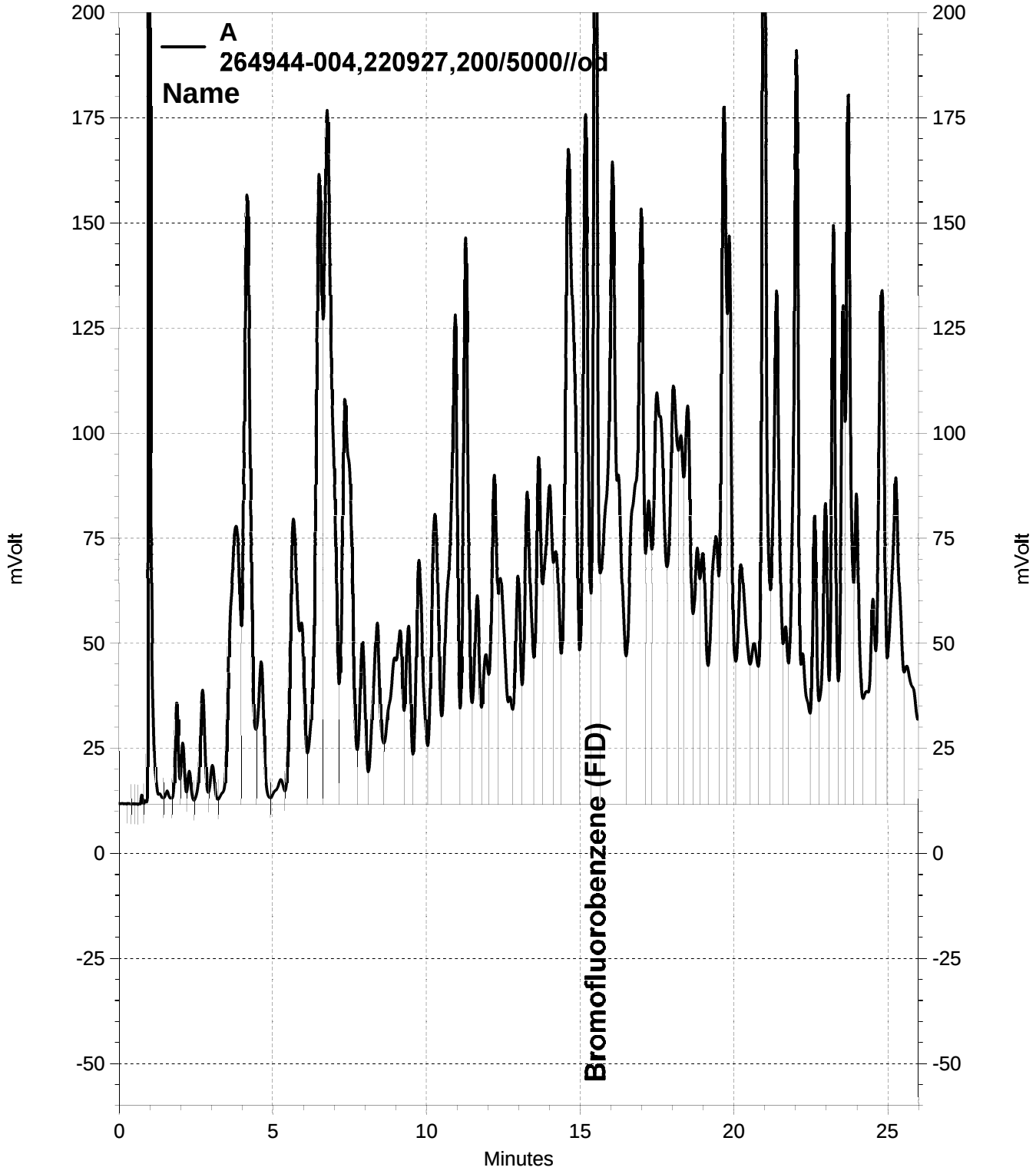
| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 96 | 78-138 |

Type: MSD Lab ID: QC779312

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 9.709 | 8.312 | 86 | 50-120 | 3 | 31 |

| Surrogate | %REC | Limits |
|---|---|---|
| Bromofluorobenzene (FID) | 97 | 78-138 |

RPD= Relative Percent Difference

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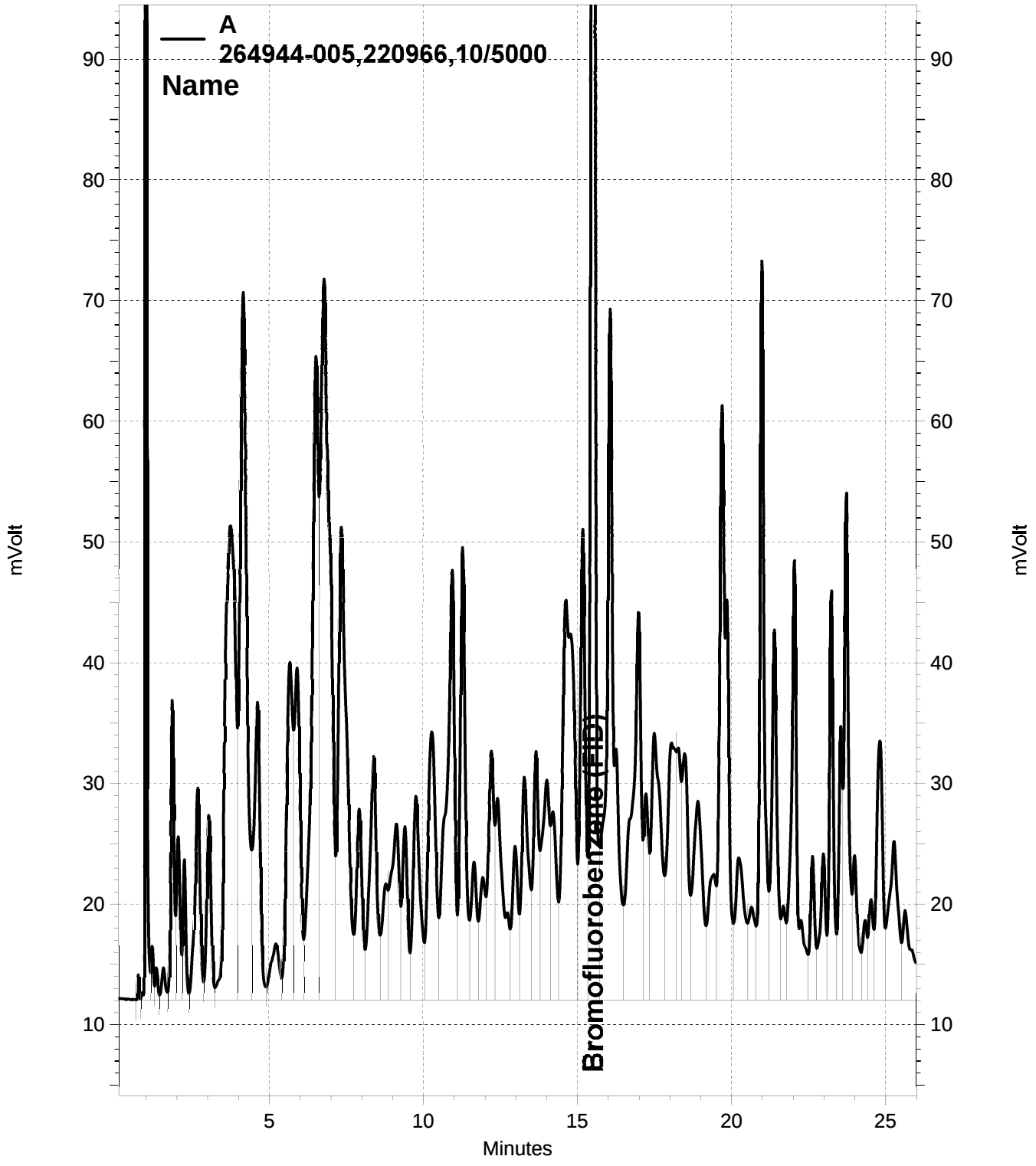
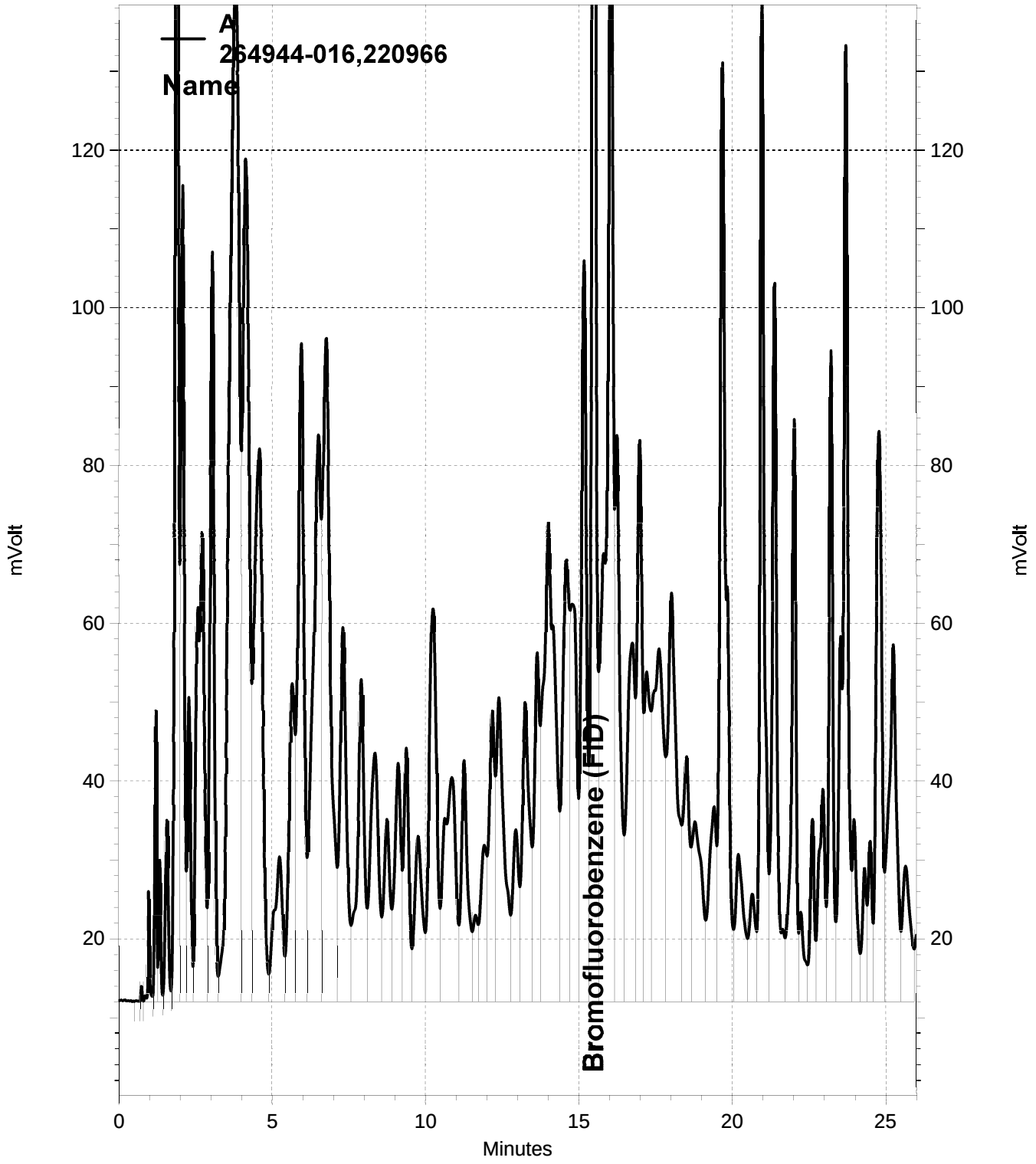

A
264944-005,220966,10/5000
Name
Bromofluorobenzene (FID)
mVolt
mVolt
Minutes
90
80
70
60
50
40
30
20
10
5
10
15
20
25
\\Lims\gdrive\ezchrom\Projects\GC07\Data\062-032, A


A
264944-016,220966
Name
120
100
80
60
40
20
mVolt
Bromofluorobenzene (FID)
0
5
10
15
20
25
Minutes
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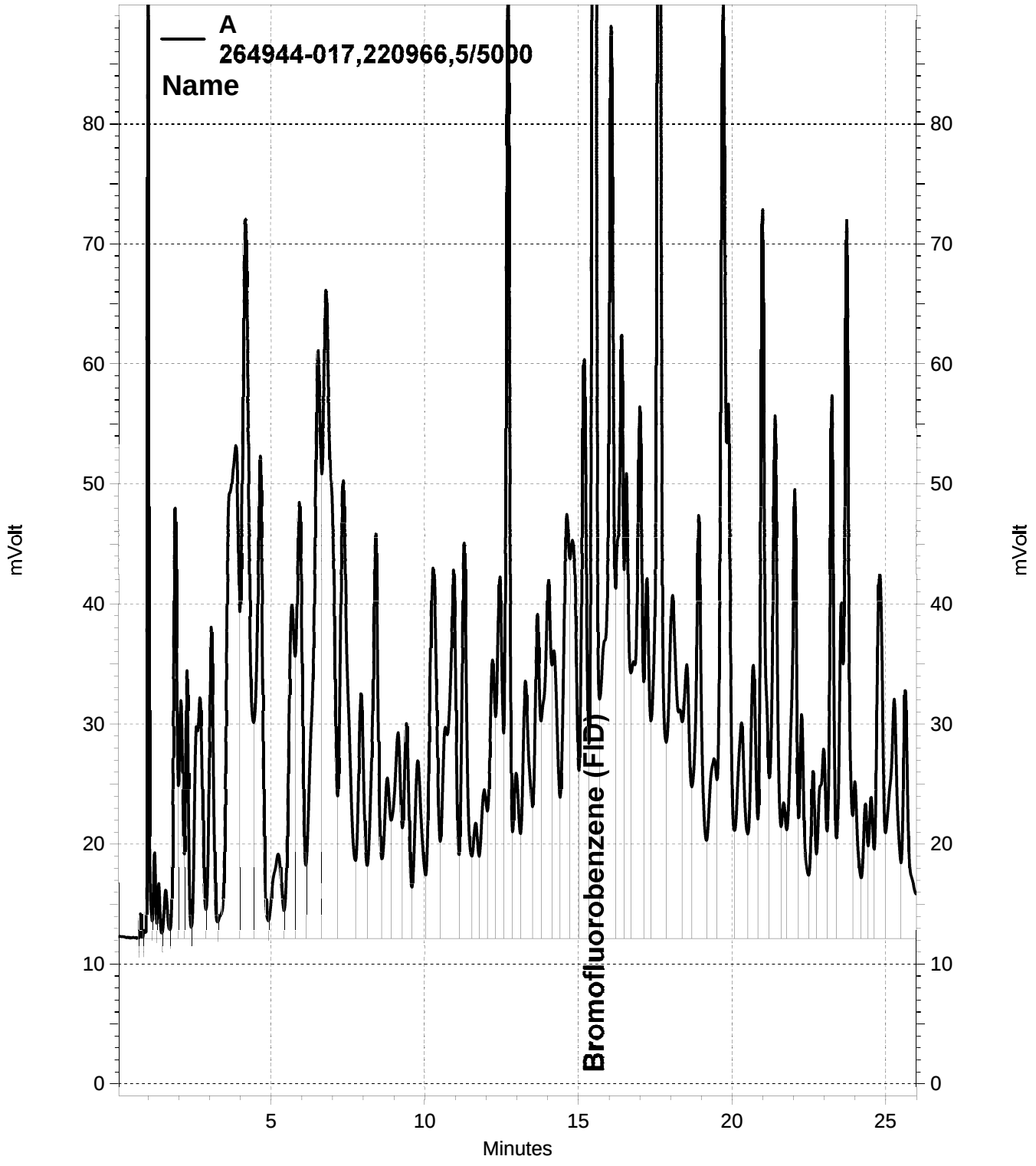
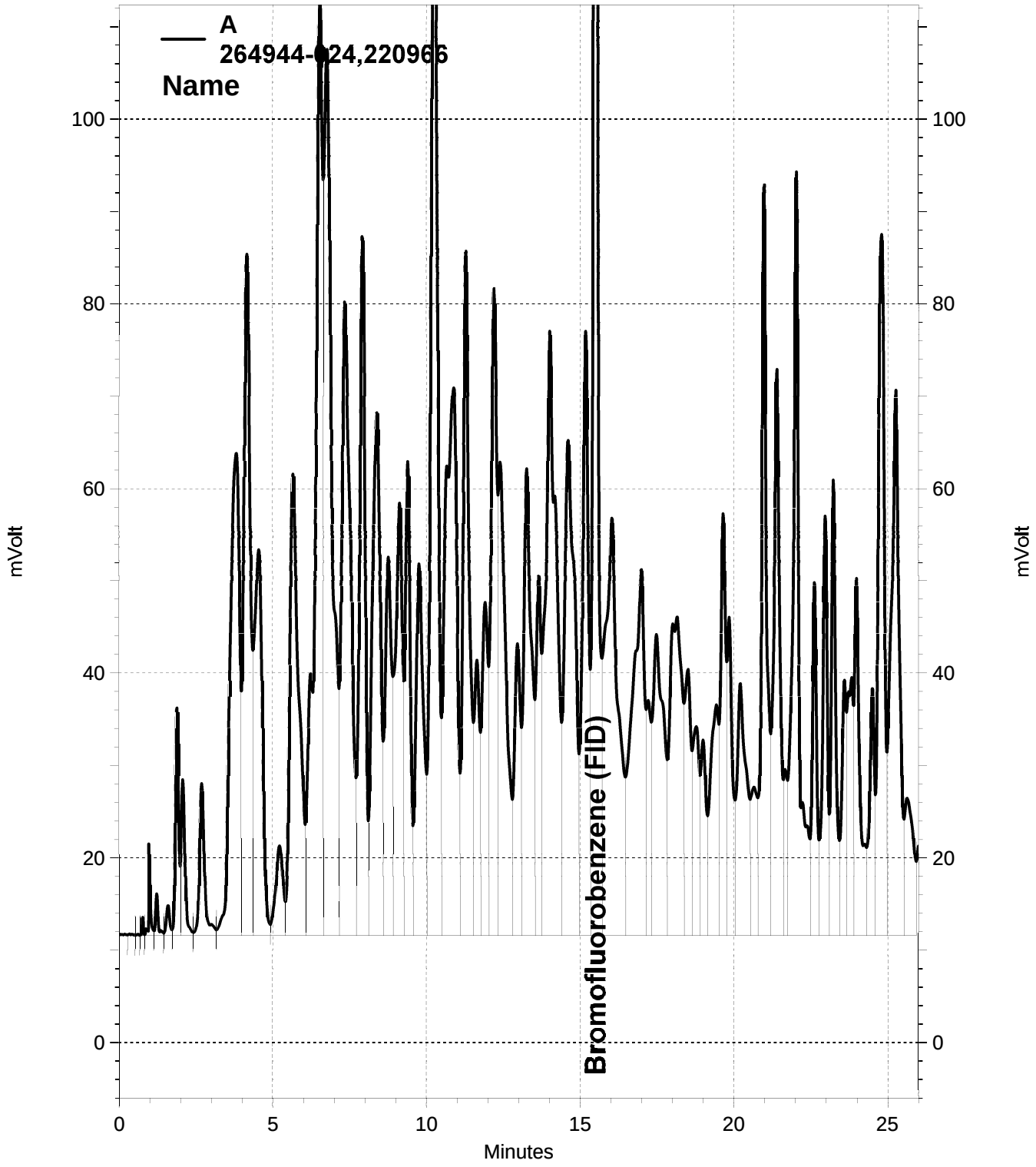
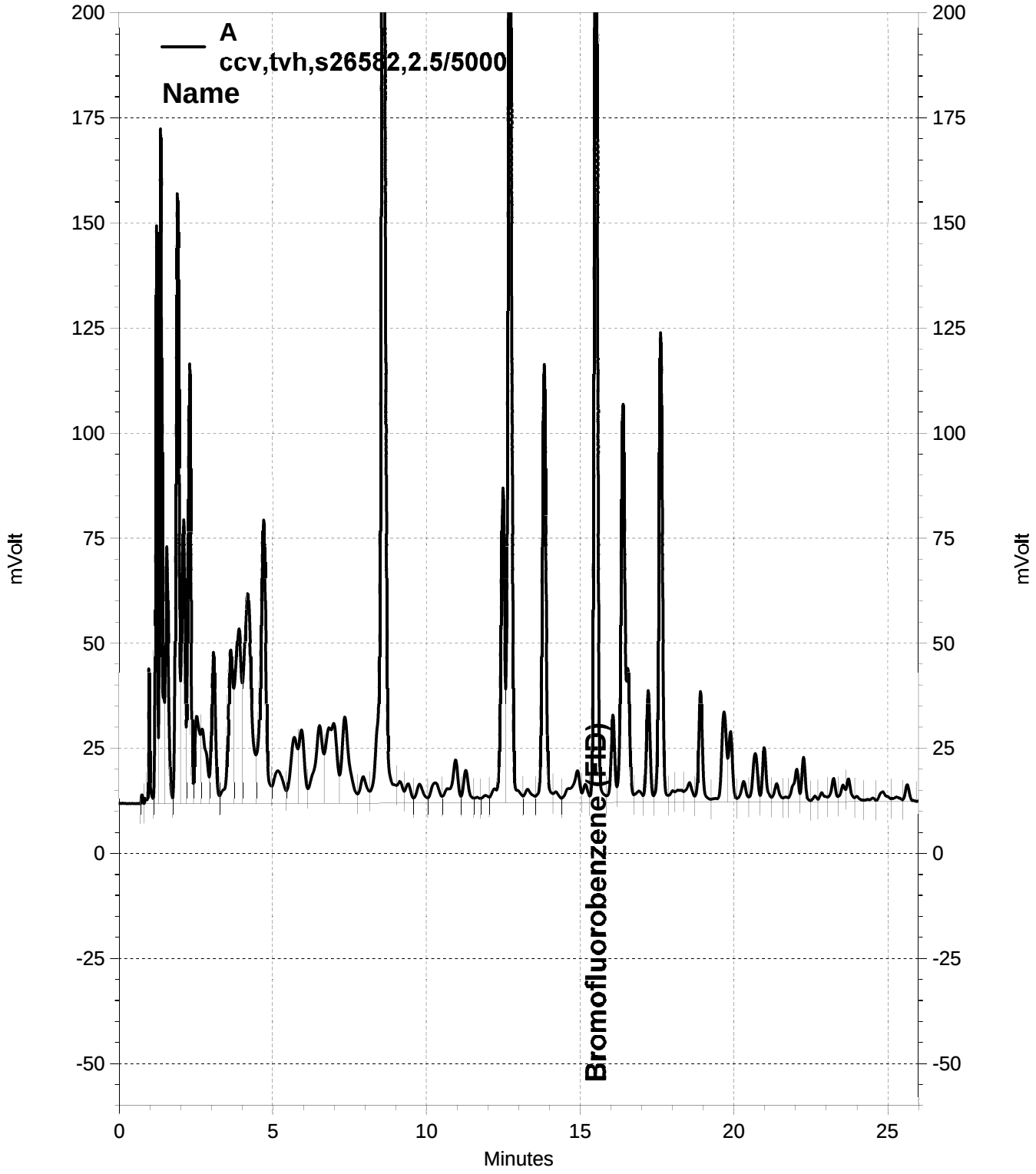

A
264944-017,220966,5/5000
Name
Bromofluorobenzene (FID)
mVolt
mVolt
Minutes
0
10
20
30
40
50
60
70
80
5
10
15
20
25
\\Lims\gdrive\ezchrom\Projects\GC07\Data\062-033, A




\\Lims\gdrive\ezchrom\Projects\GC07\Data\062-024, A




\\Lims\gdrive\ezchrom\Projects\GC07\Data\061-003, A

Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 1FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-001 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 9.6 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 118 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 3FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-002 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 10 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 100 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 5.5FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-003 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 21 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 121 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 10.5FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-004 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 350 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 101 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 15.5FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-005 | Analyzed: | 03/07/15 |
| Diln Fac: | 5.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 620 | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 103 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 20.5FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-006 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 23 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 113 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 25.5FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-007 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 109 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 30.5FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-008 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 0.99 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 122 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | SB-12 @ 34.5FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/25/15 |
| Lab ID: | 264944-009 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 112 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 1FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/23/15 |
| Lab ID: | 264944-010 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 13 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 113 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 2FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/23/15 |
| Lab ID: | 264944-011 | Analyzed: | 03/05/15 |
| Diln Fac: | 3.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 18 Y | 3.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 105 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 3FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/23/15 |
| Lab ID: | 264944-012 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 12 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 106 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 1FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-013 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 6.1 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 114 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 3FT | Batch#: | 220926 |
| Type: | SAMPLE | Sampled: | 02/24/15 |
| Lab ID: | 264944-014 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 5.9 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 104 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 5.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-015 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 29 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 111 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 10.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-016 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 300 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 130 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 15.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-017 | Analyzed: | 03/07/15 |
| Diln Fac: | 10.00 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 1,200 | 10 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | DO | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 20.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-018 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 44 | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 121 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 25.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-019 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 1.9 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 100 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 30.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-020 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 102 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | SB-14 @ 34FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/26/15 |
| Lab ID: | 264944-021 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 84 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 5.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-022 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2.9 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 117 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 10.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-023 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 0.99 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 114 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 15.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-024 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 11 Y | 0.99 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 102 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 20.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-025 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 8.2 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 120 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 25.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-026 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 3.3 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 98 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 30.5FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-027 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2.5 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 123 | 59-140 |

| | | | |
|---|---|---|---|
| Field ID: | SB-13 @ 34FT | Batch#: | 220938 |
| Type: | SAMPLE | Sampled: | 02/27/15 |
| Lab ID: | 264944-028 | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2.4 Y | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 123 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Type: | BLANK | Batch#: | 220926 |
| Lab ID: | QC779158 | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 151 * | 59-140 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Batch#: | 220938 |
| Lab ID: | QC779204 | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 0.99 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 105 | 59-140 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779159 | Batch#: | 220926 |
| Matrix: | Soil | Prepared: | 03/02/15 |
| Units: | mg/Kg | Analyzed: | 03/05/15 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 49.62 | 56.56 | 114 | 58-137 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 113 | 59-140 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Field ID: | SB-12 @ 1FT | Batch#: | 220926 |
| MSS Lab ID: | 264944-001 | Sampled: | 02/24/15 |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC779160

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Diesel C10-C24 | 9.566 | 50.36 | 58.38 | 97 | 46-154 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 107 | 59-140 |

Type: MSD Lab ID: QC779161

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 50.39 | 60.92 | 102 | 46-154 | 4 | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 109 | 59-140 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779205 | Batch#: | 220938 |
| Matrix: | Soil | Prepared: | 03/02/15 |
| Units: | mg/Kg | Analyzed: | 03/03/15 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 50.16 | 42.59 | 85 | 58-137 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 86 | 59-140 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3550B |
| Project#: | 6032 | Analysis: | EPA 8015B |
| Field ID: | SB-13 @ 5.5FT | Batch#: | 220938 |
| MSS Lab ID: | 264944-022 | Sampled: | 02/27/15 |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Prepared: | 03/02/15 |
| Basis: | as received | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC779206

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Diesel C10-C24 | 2.915 | 49.66 | 42.96 | 81 | 46-154 |

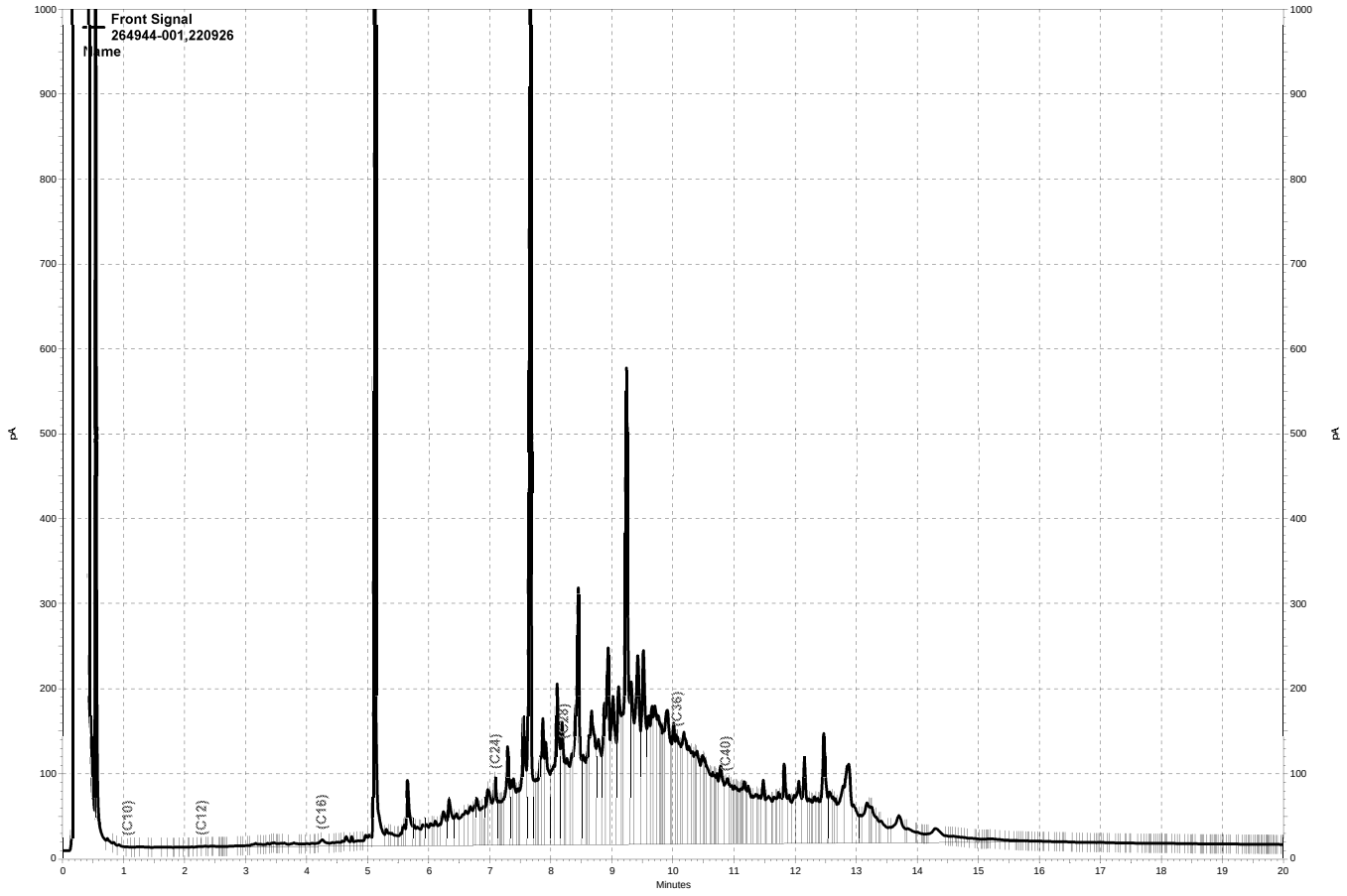
| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 93 | 59-140 |

Type: MSD Lab ID: QC779207

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 50.51 | 44.89 | 83 | 46-154 | 3 | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| o-Terphenyl | 103 | 59-140 |

RPD= Relative Percent Difference

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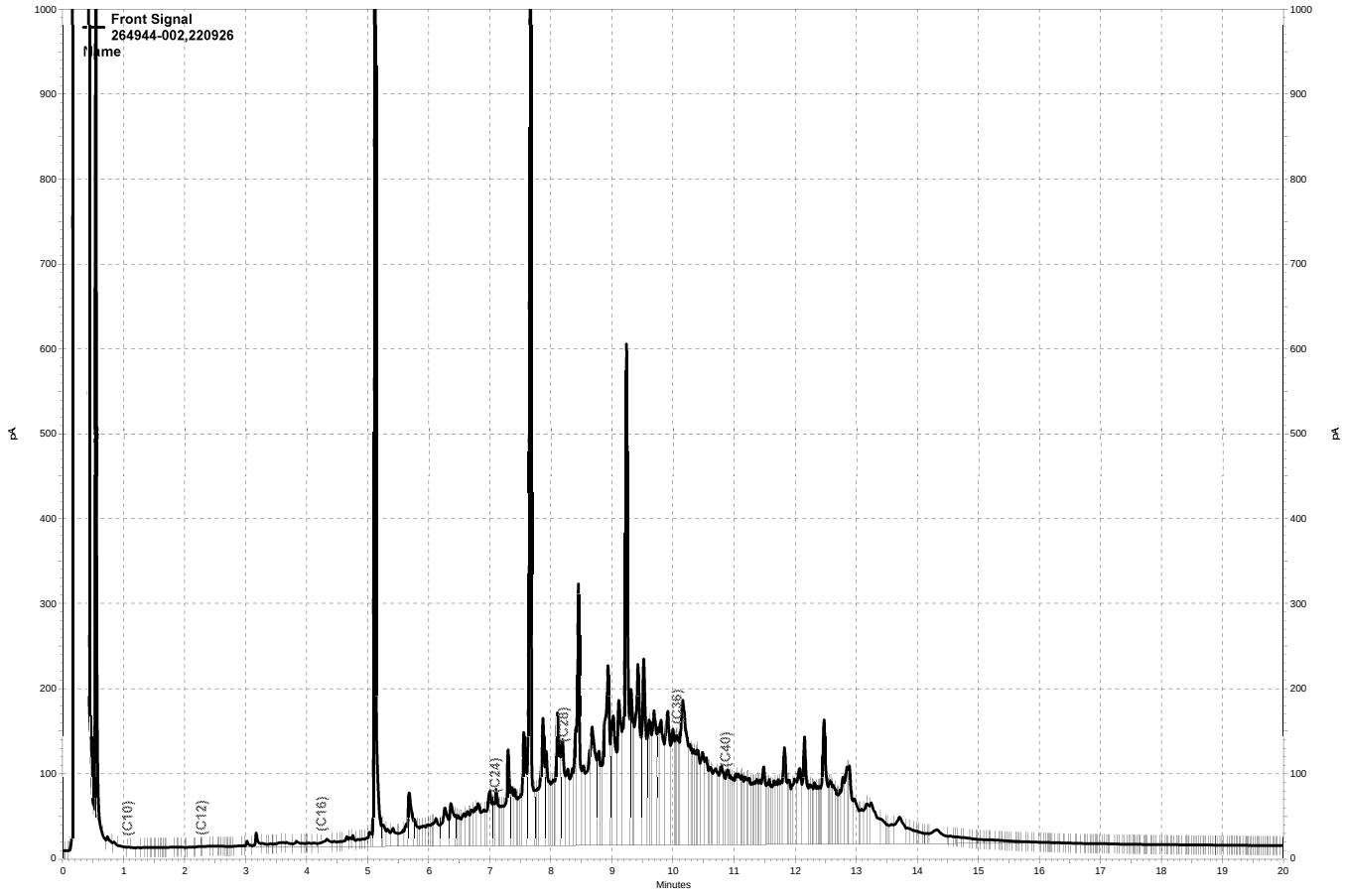


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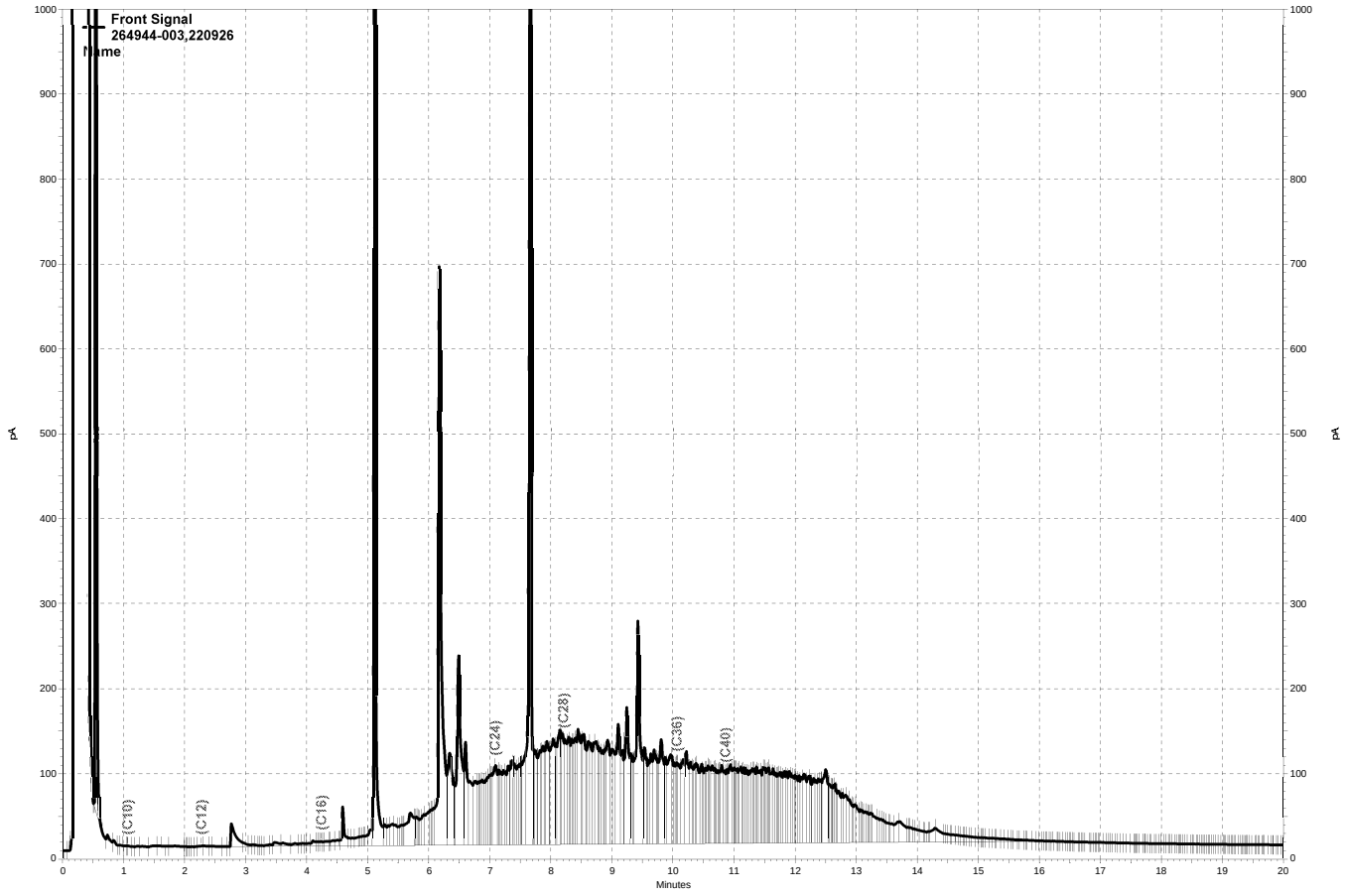


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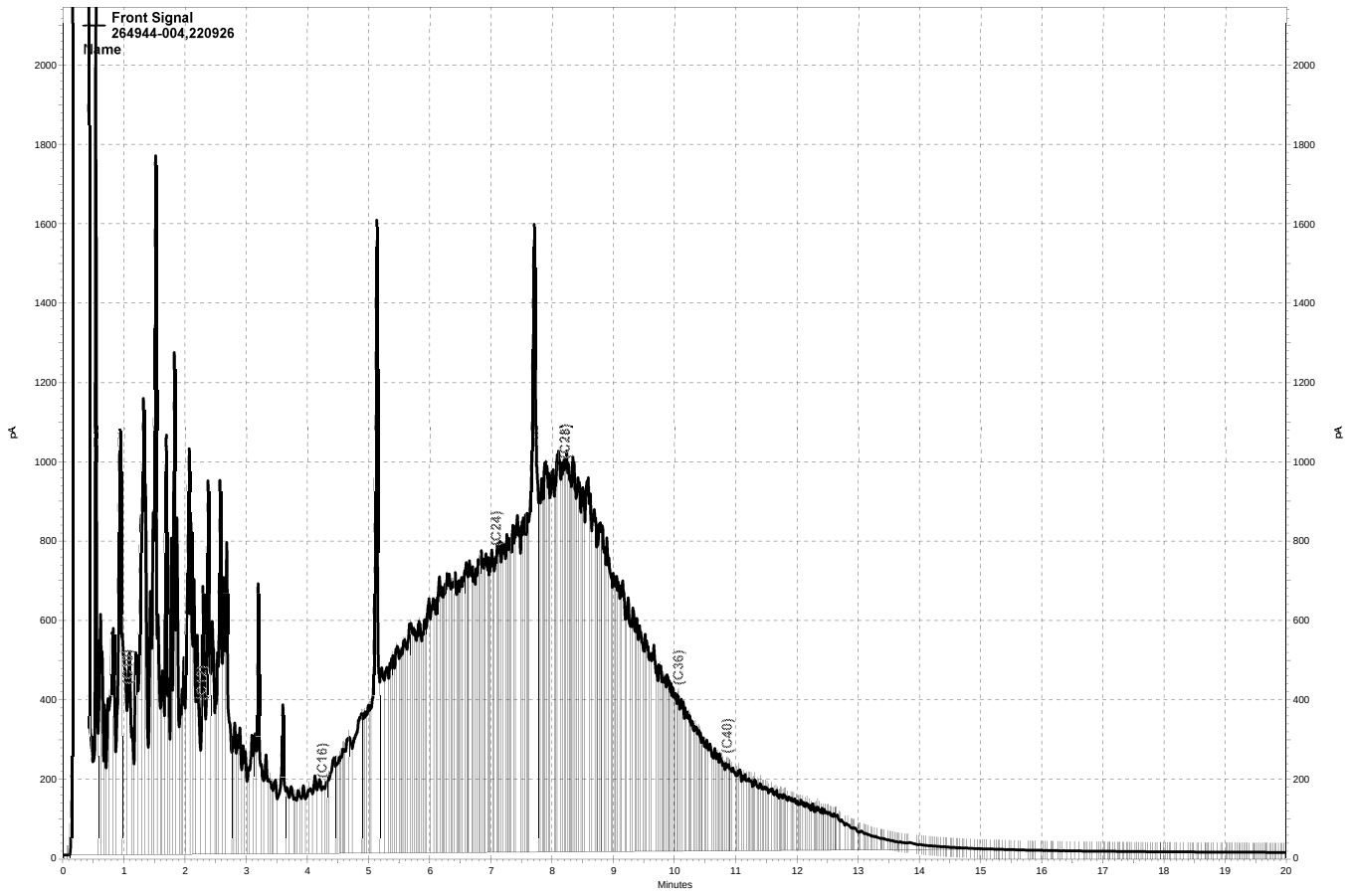


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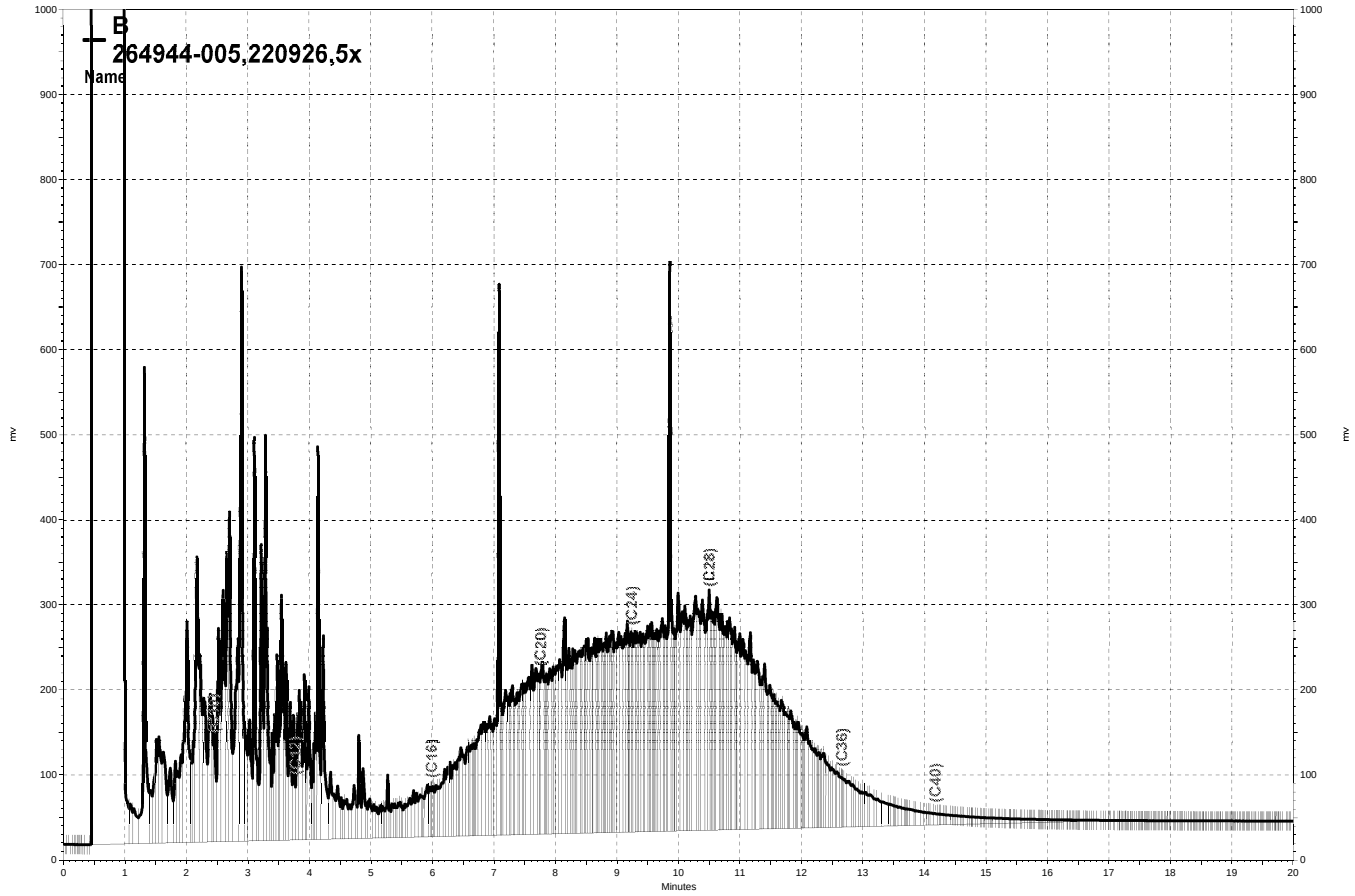


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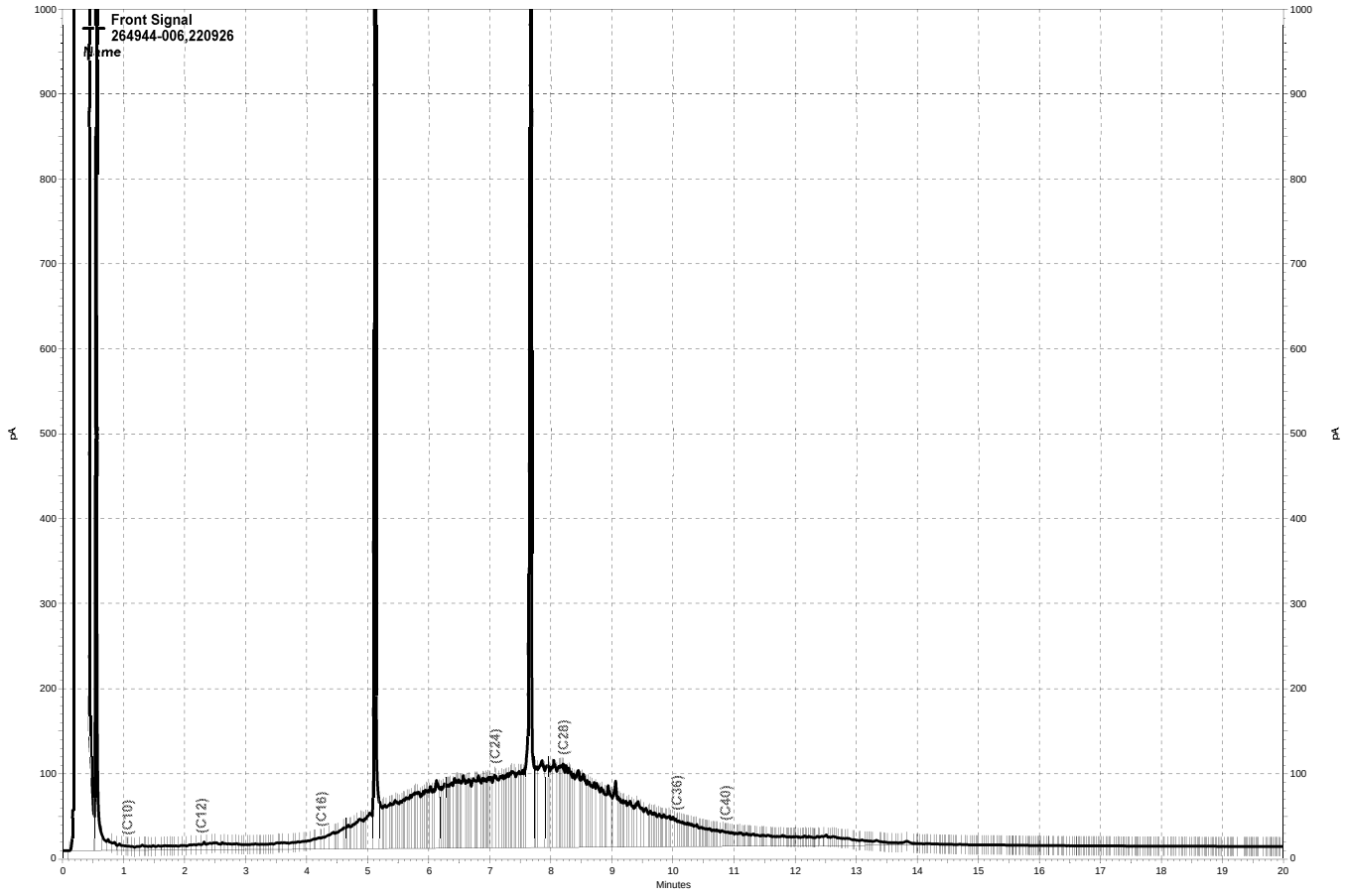


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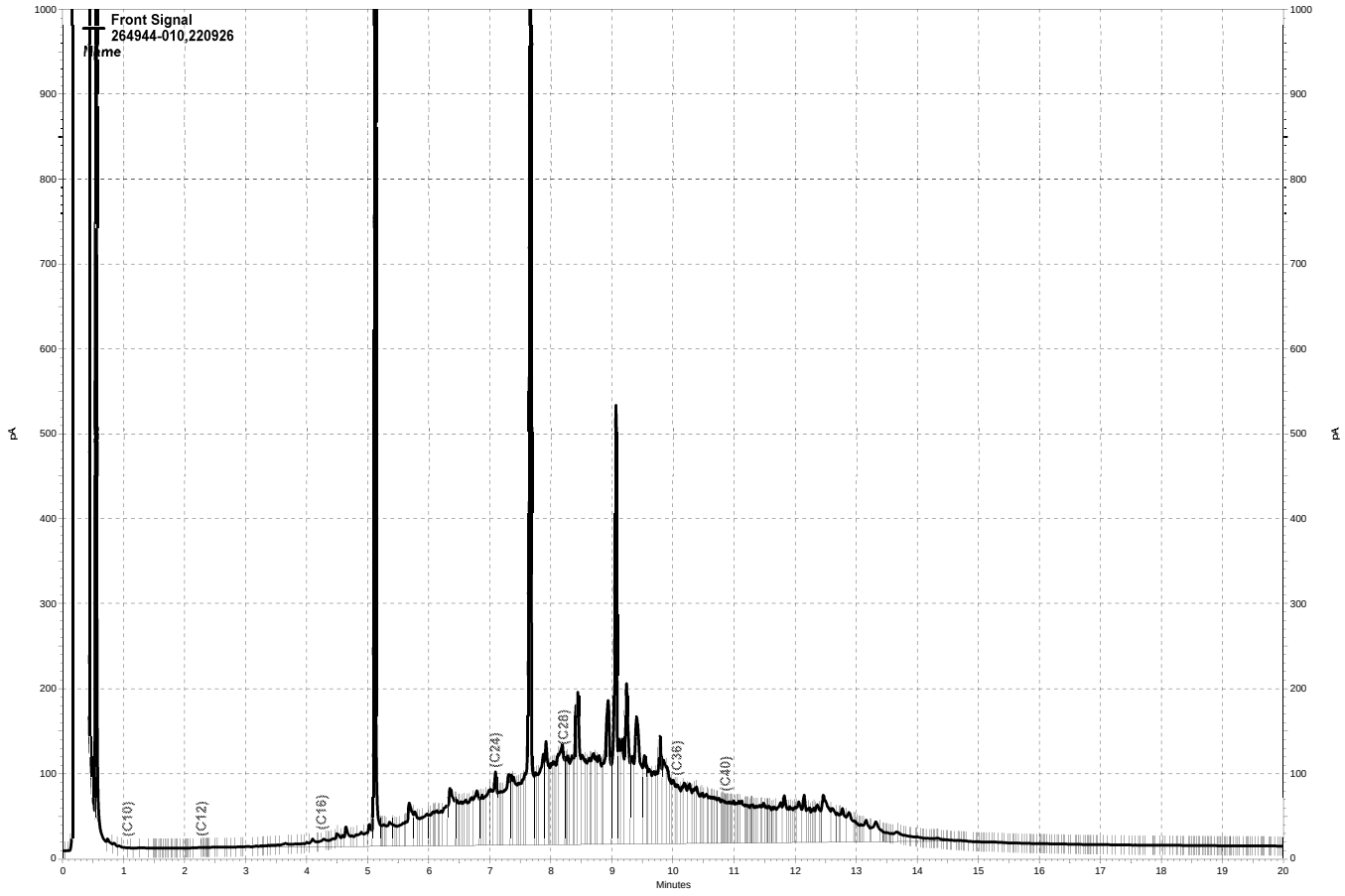


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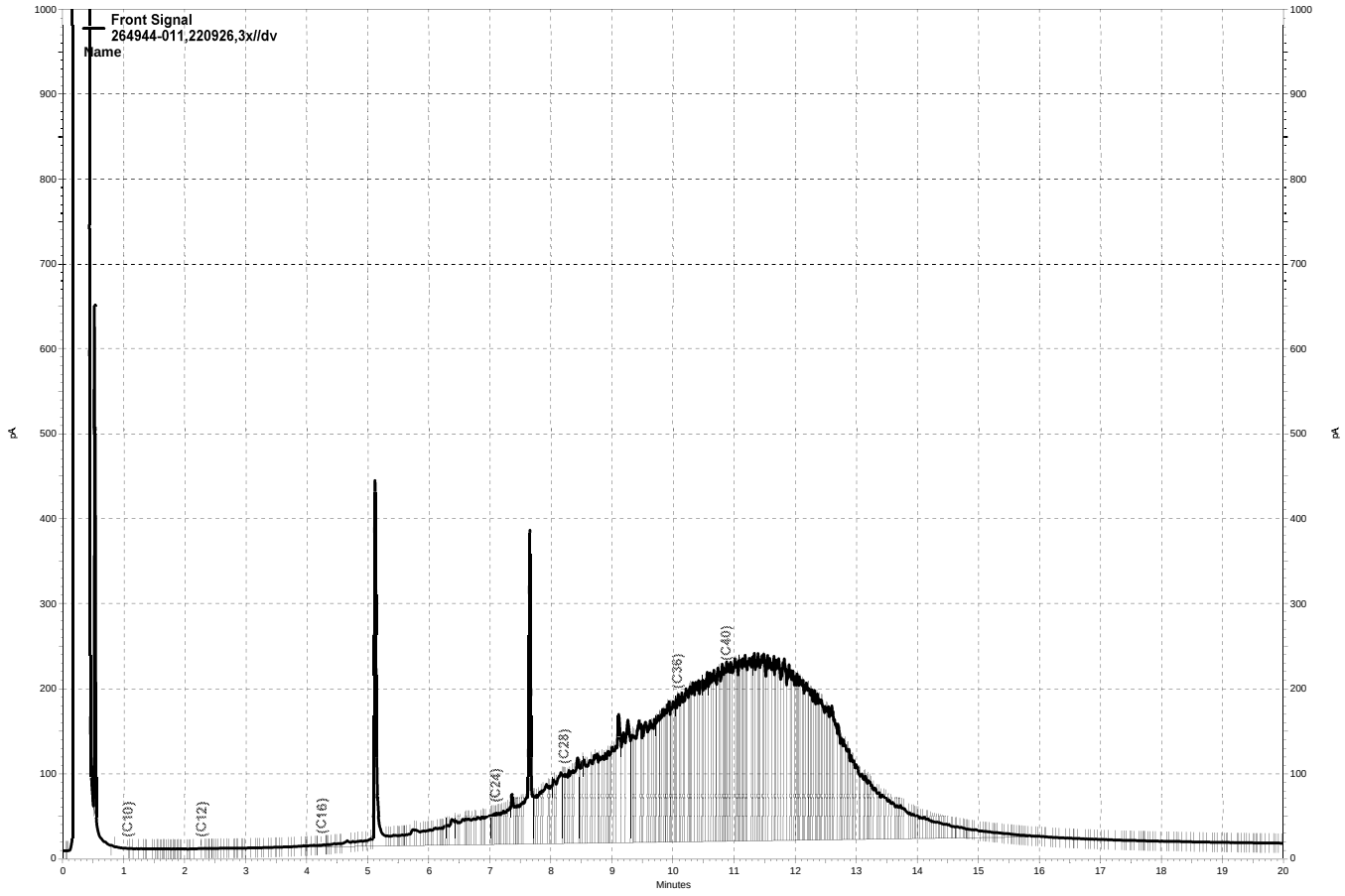


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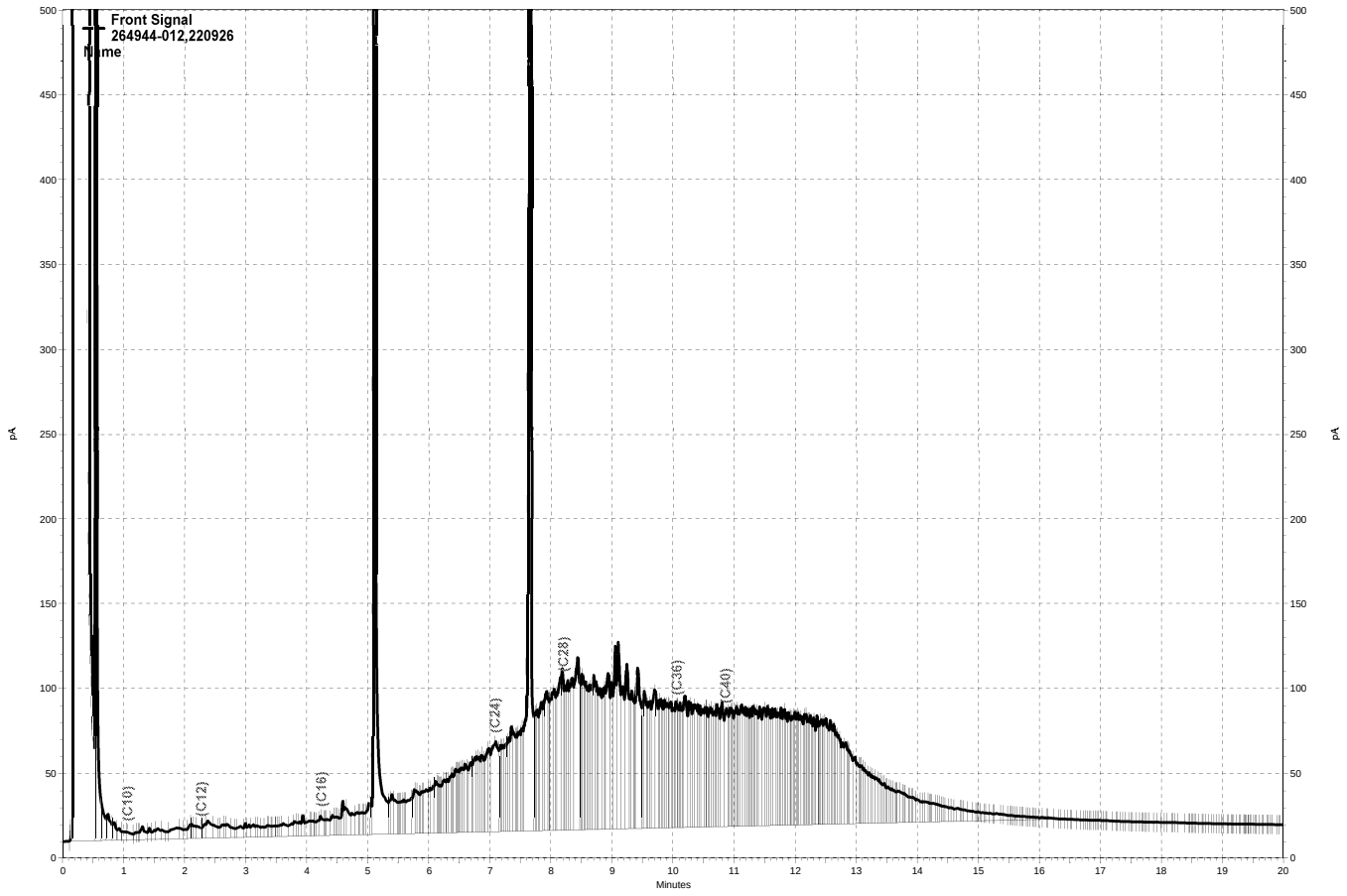


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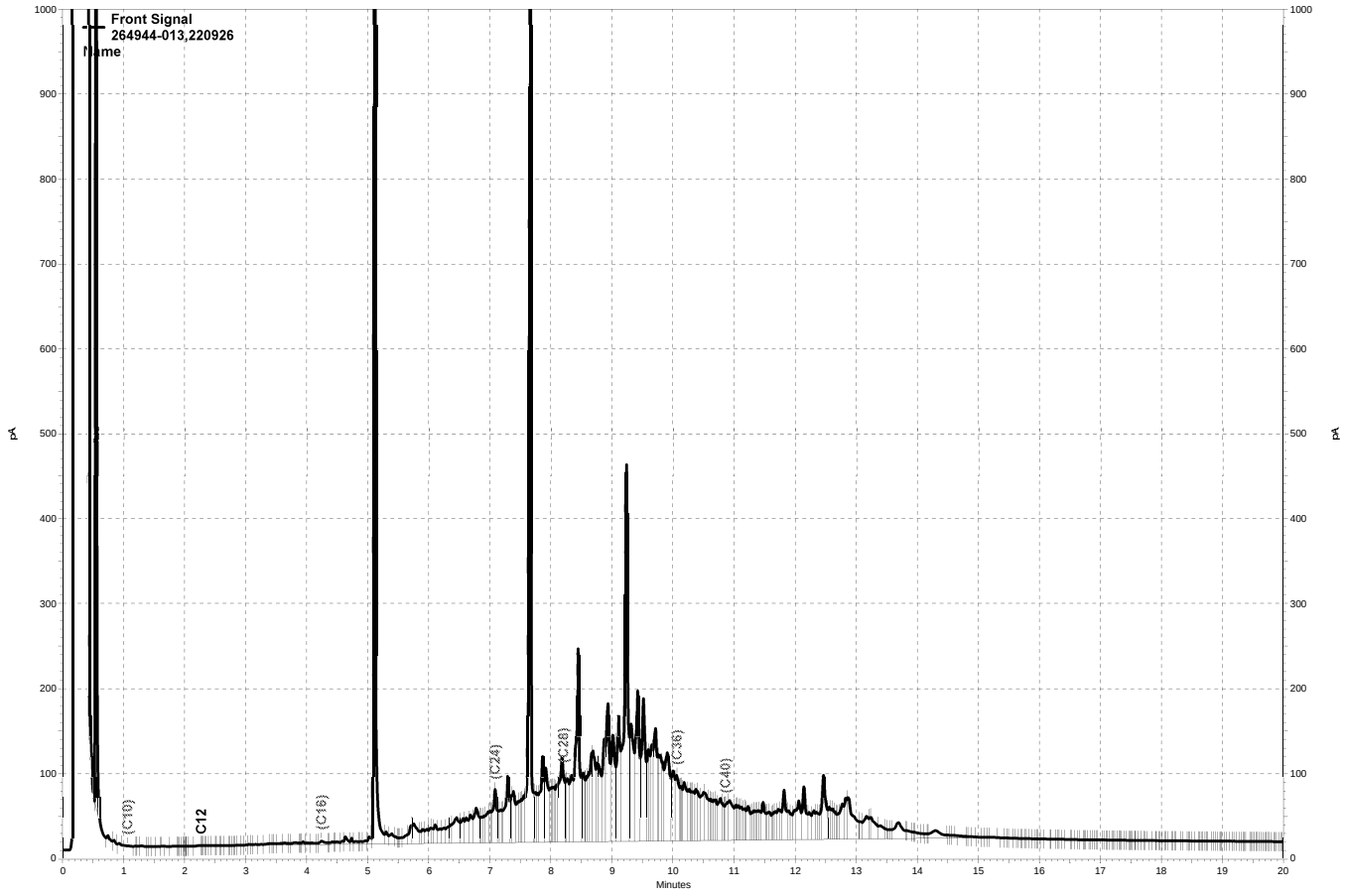


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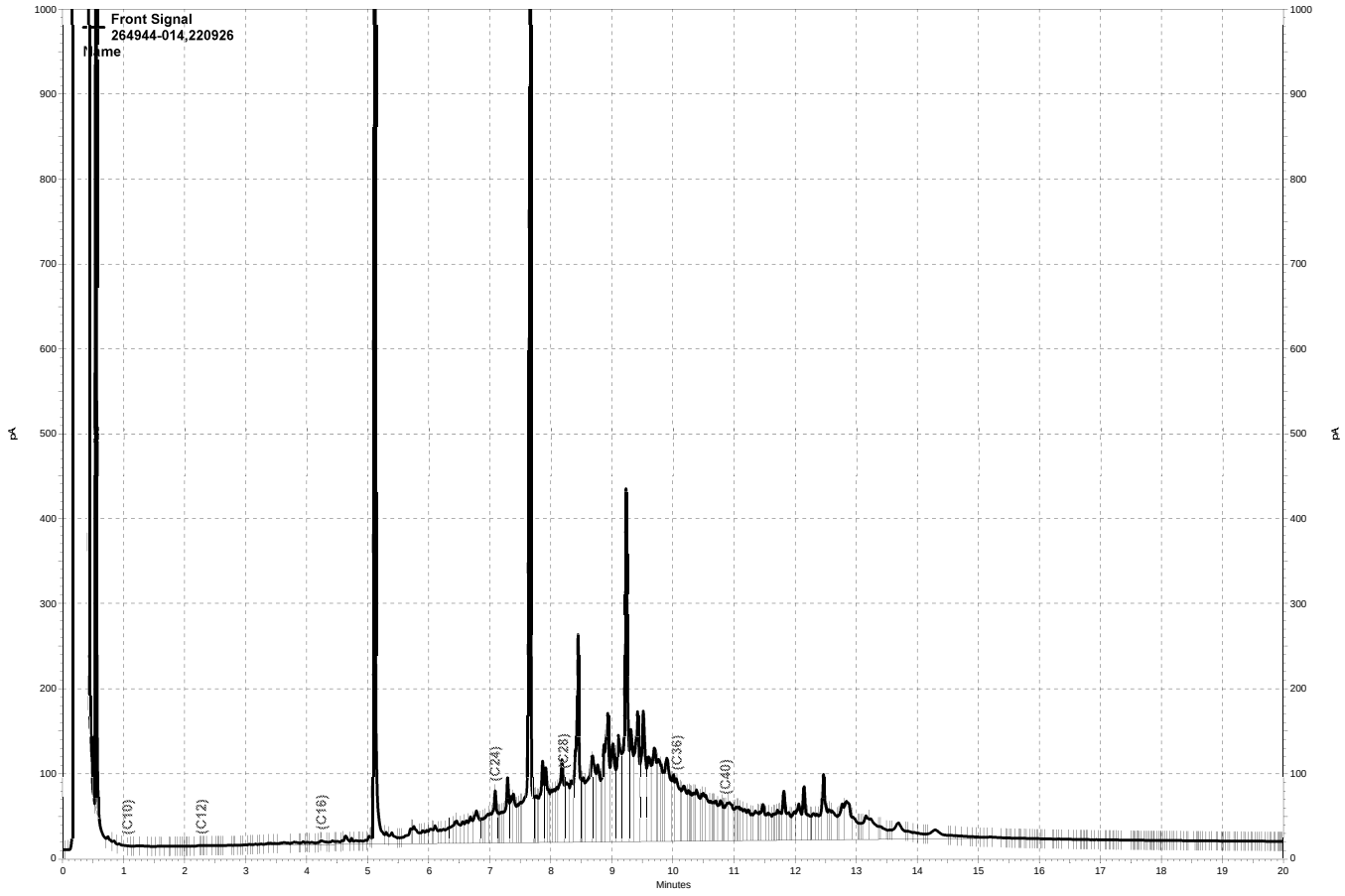


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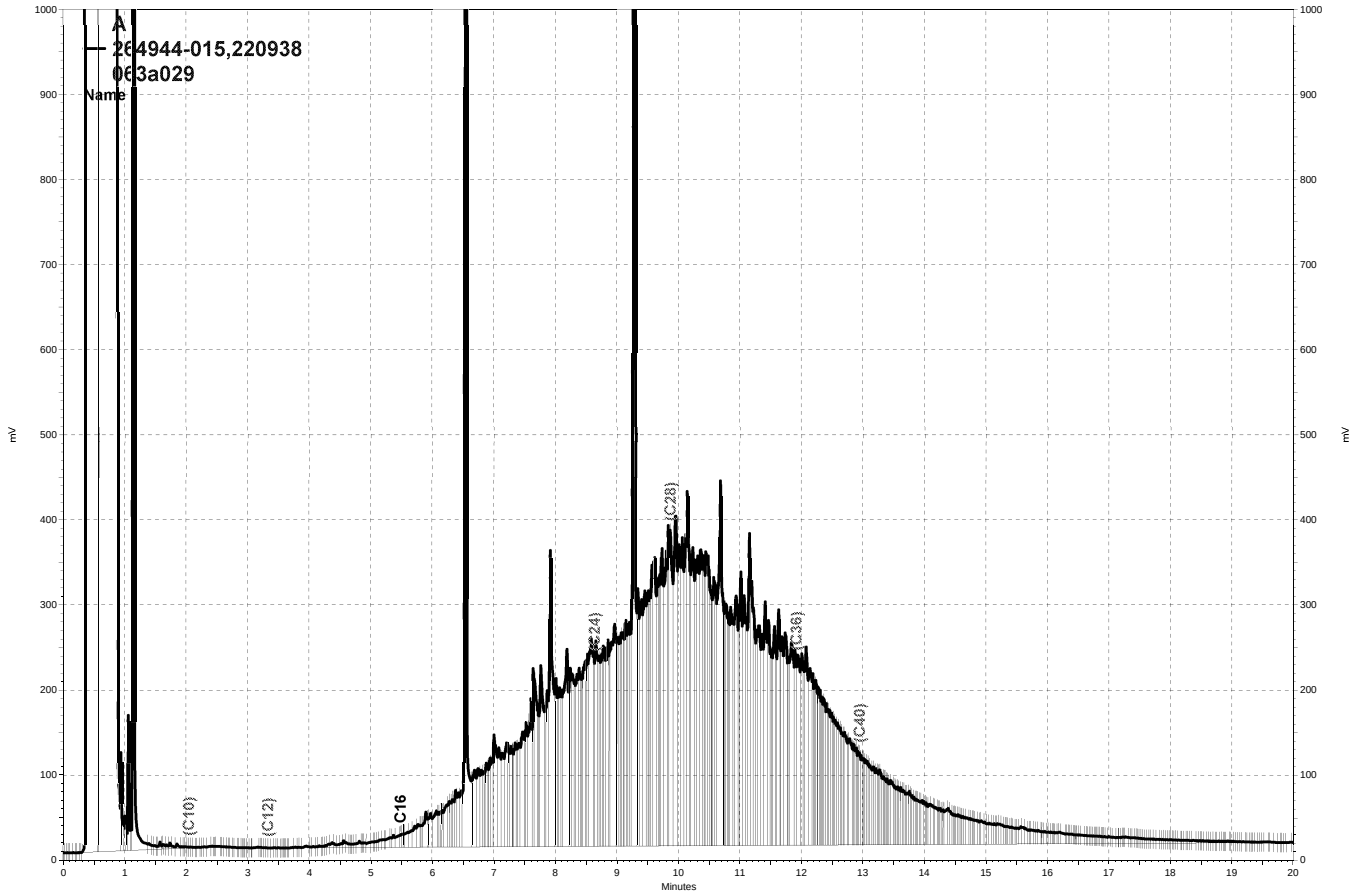


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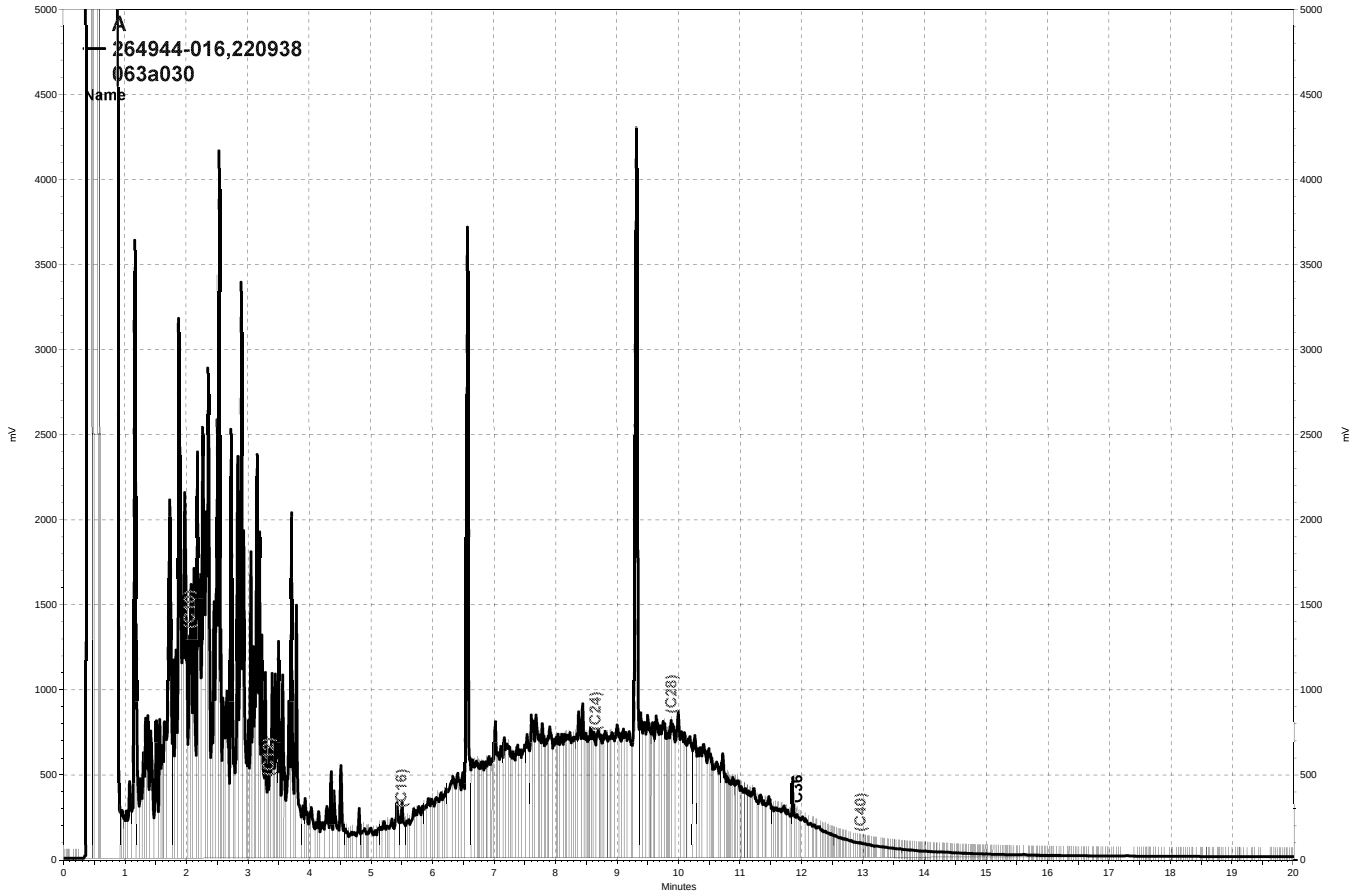


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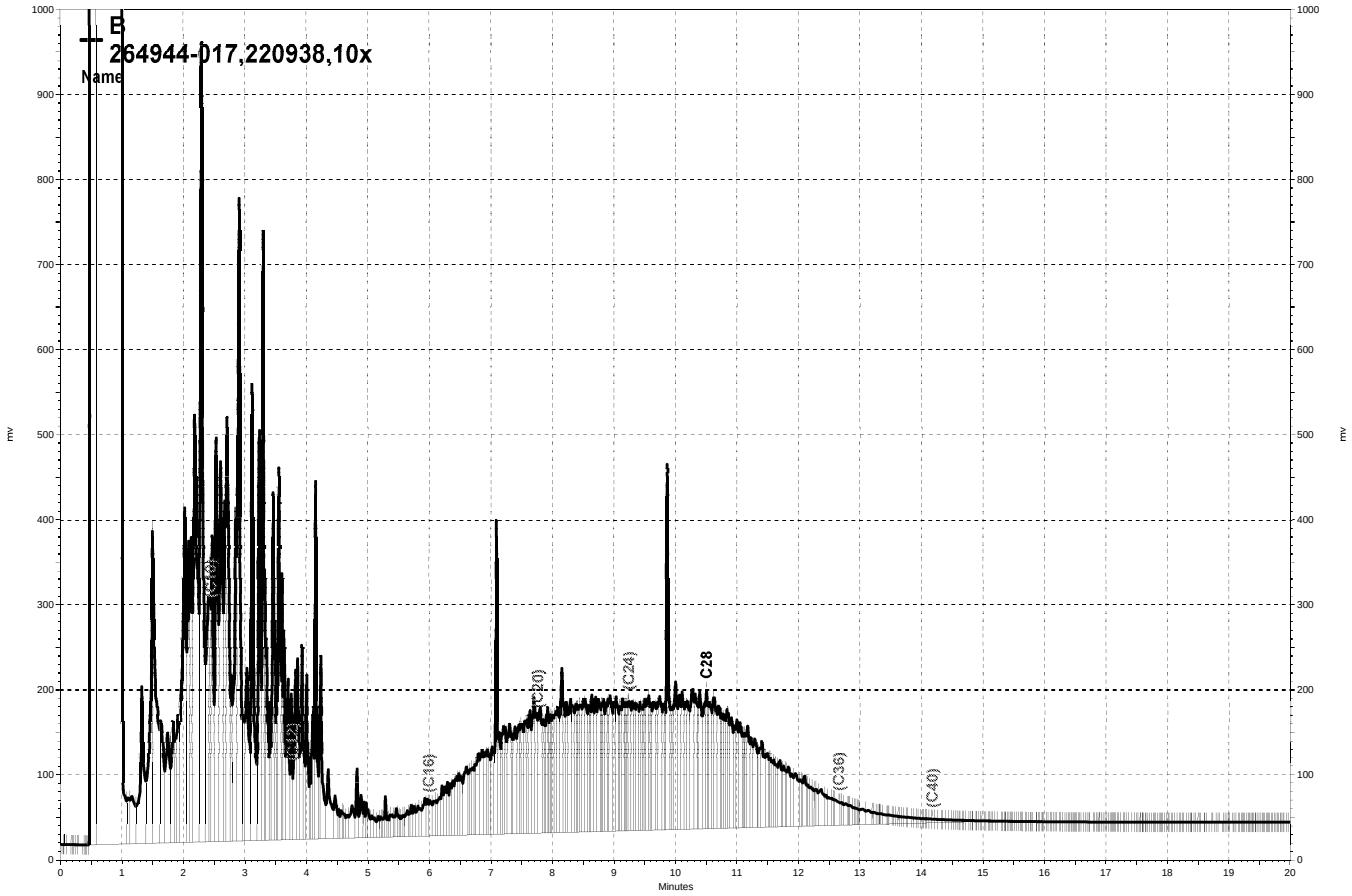


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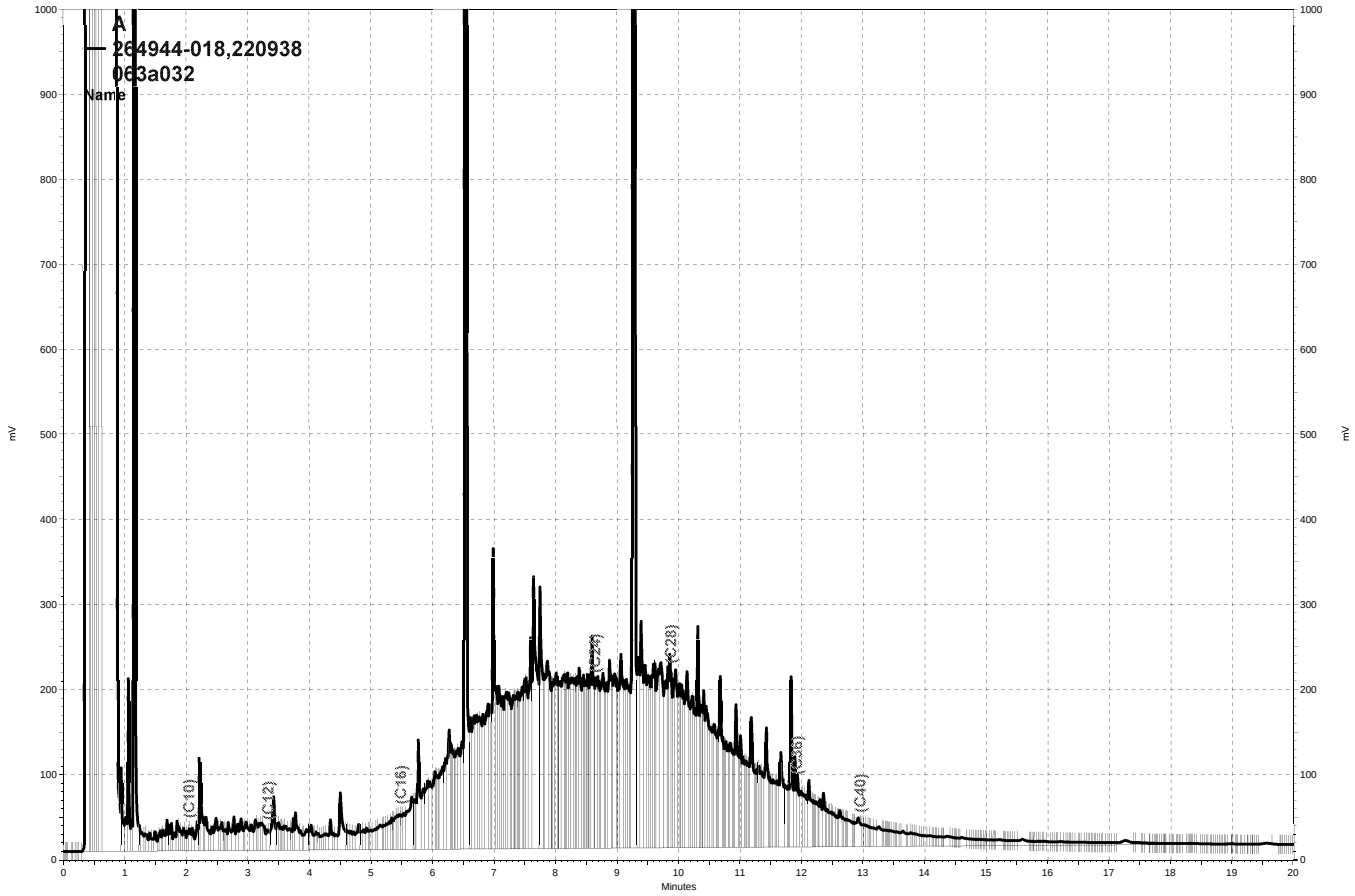


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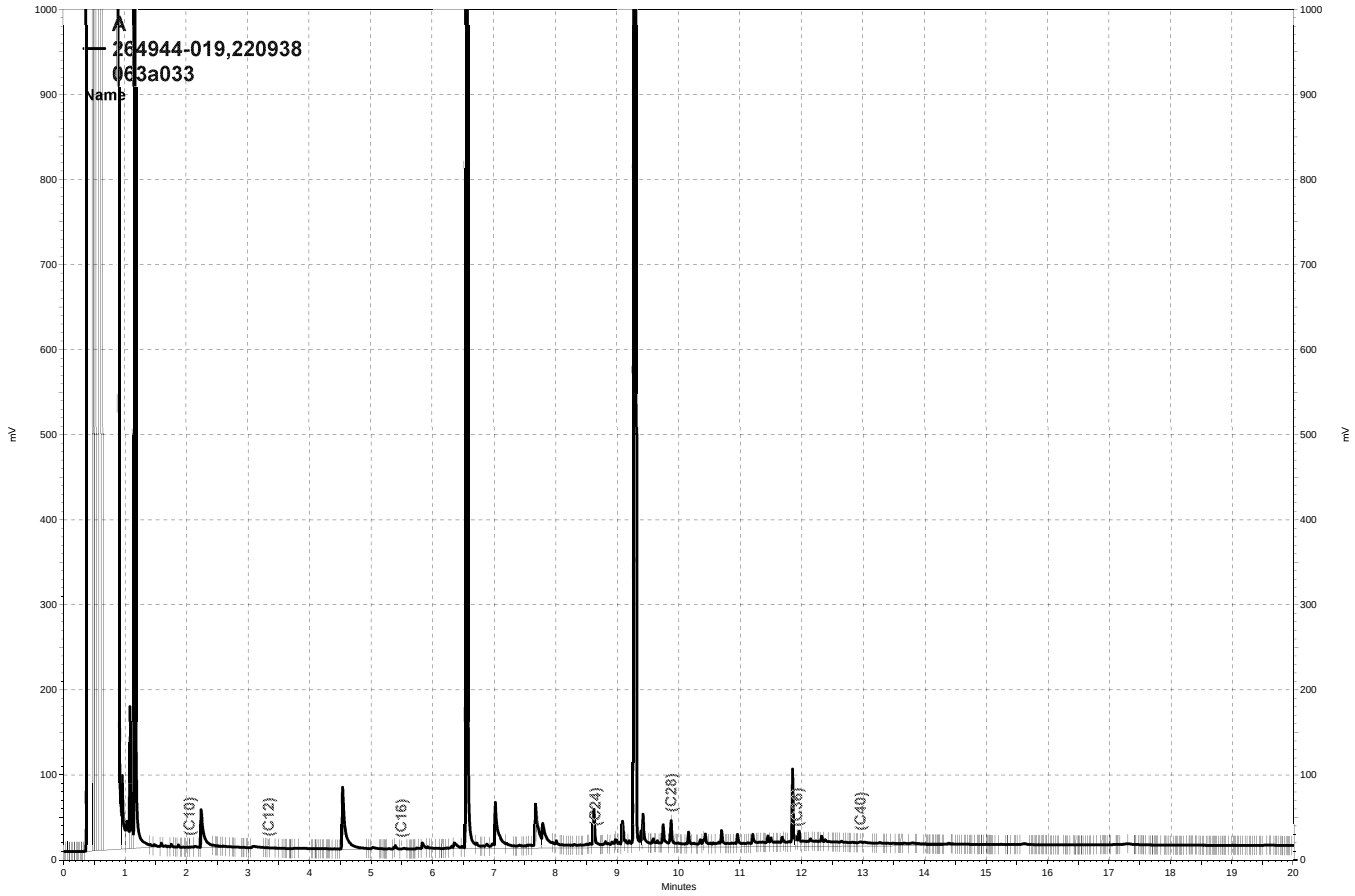


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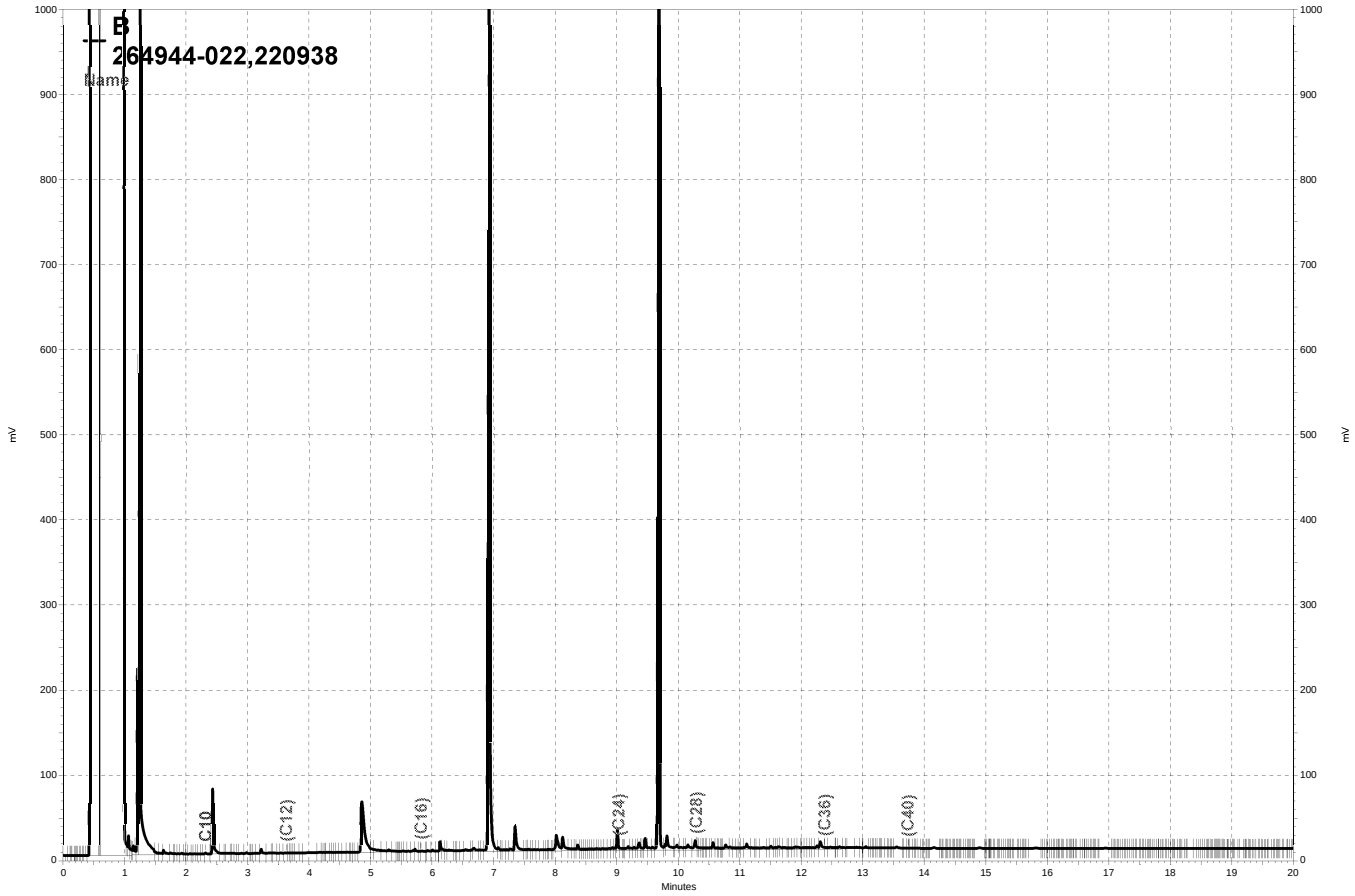


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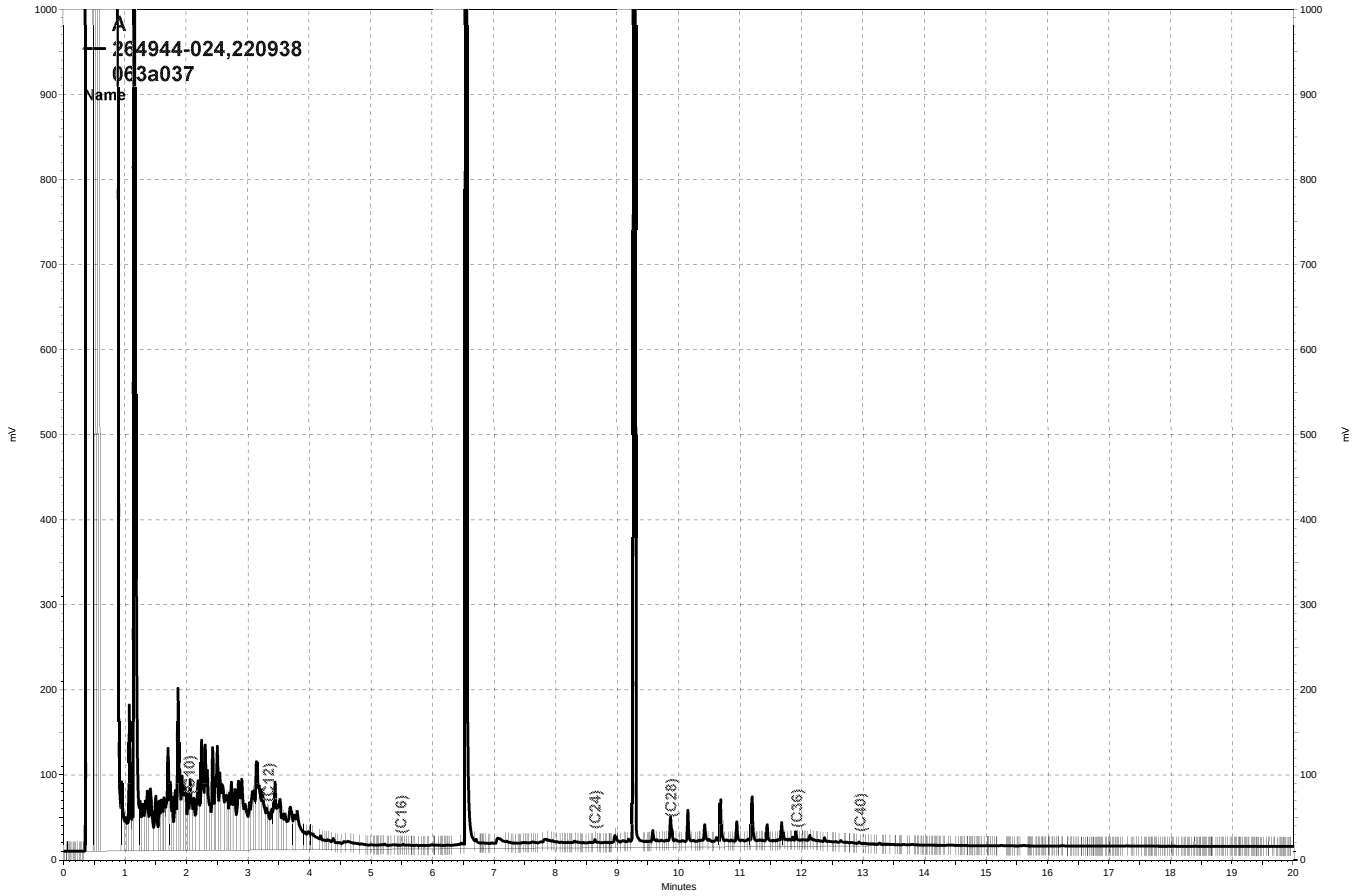


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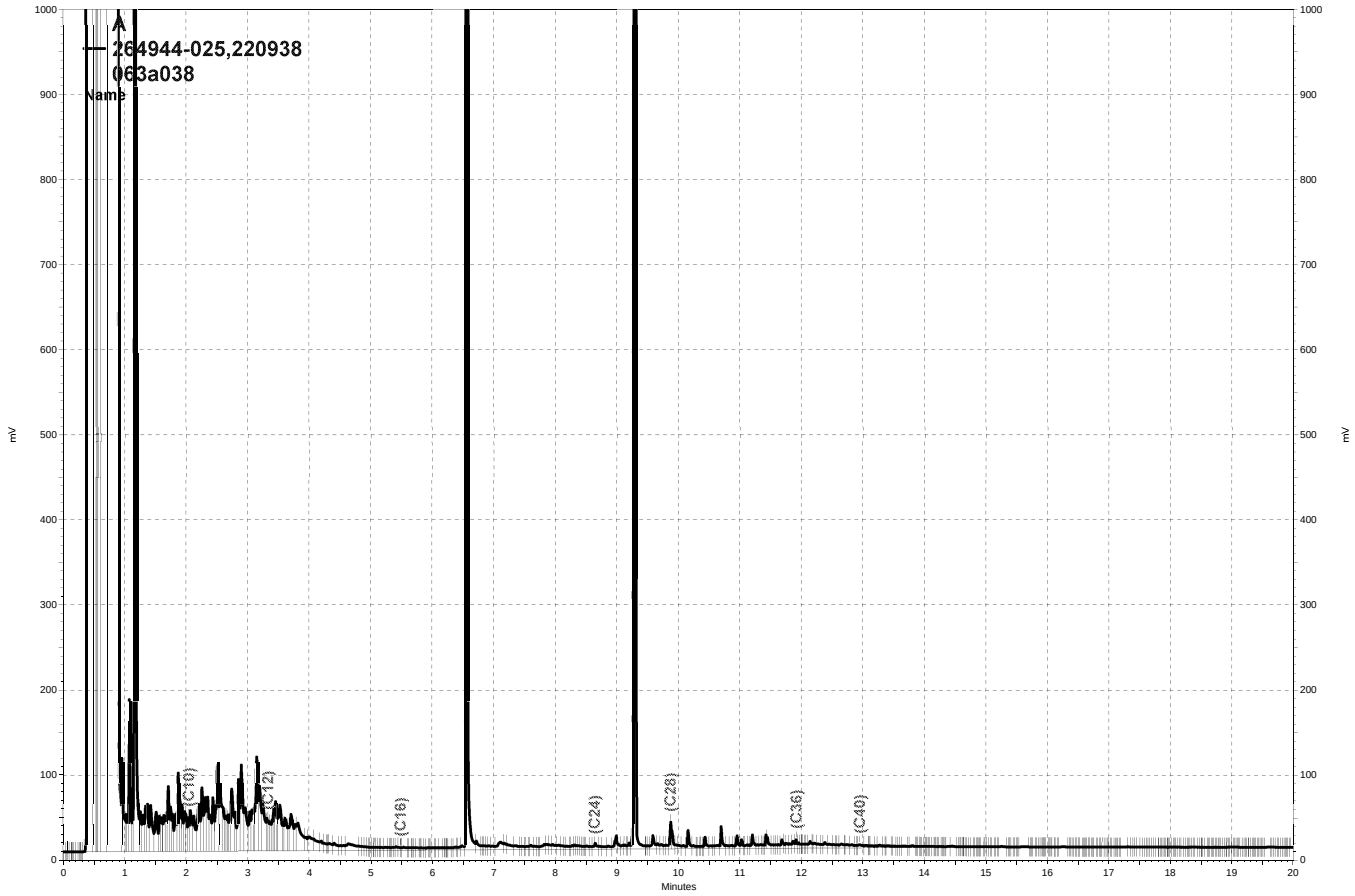


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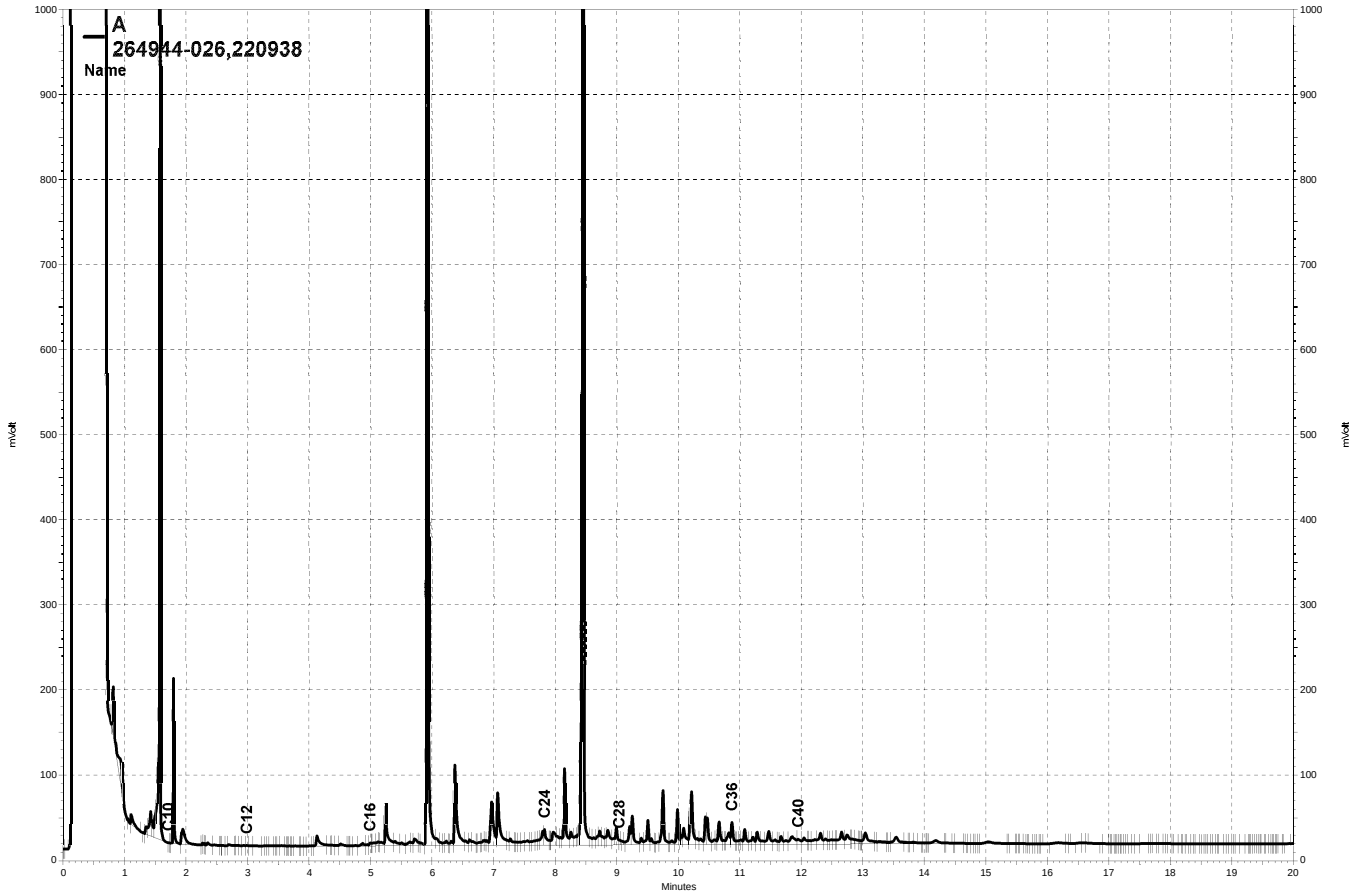


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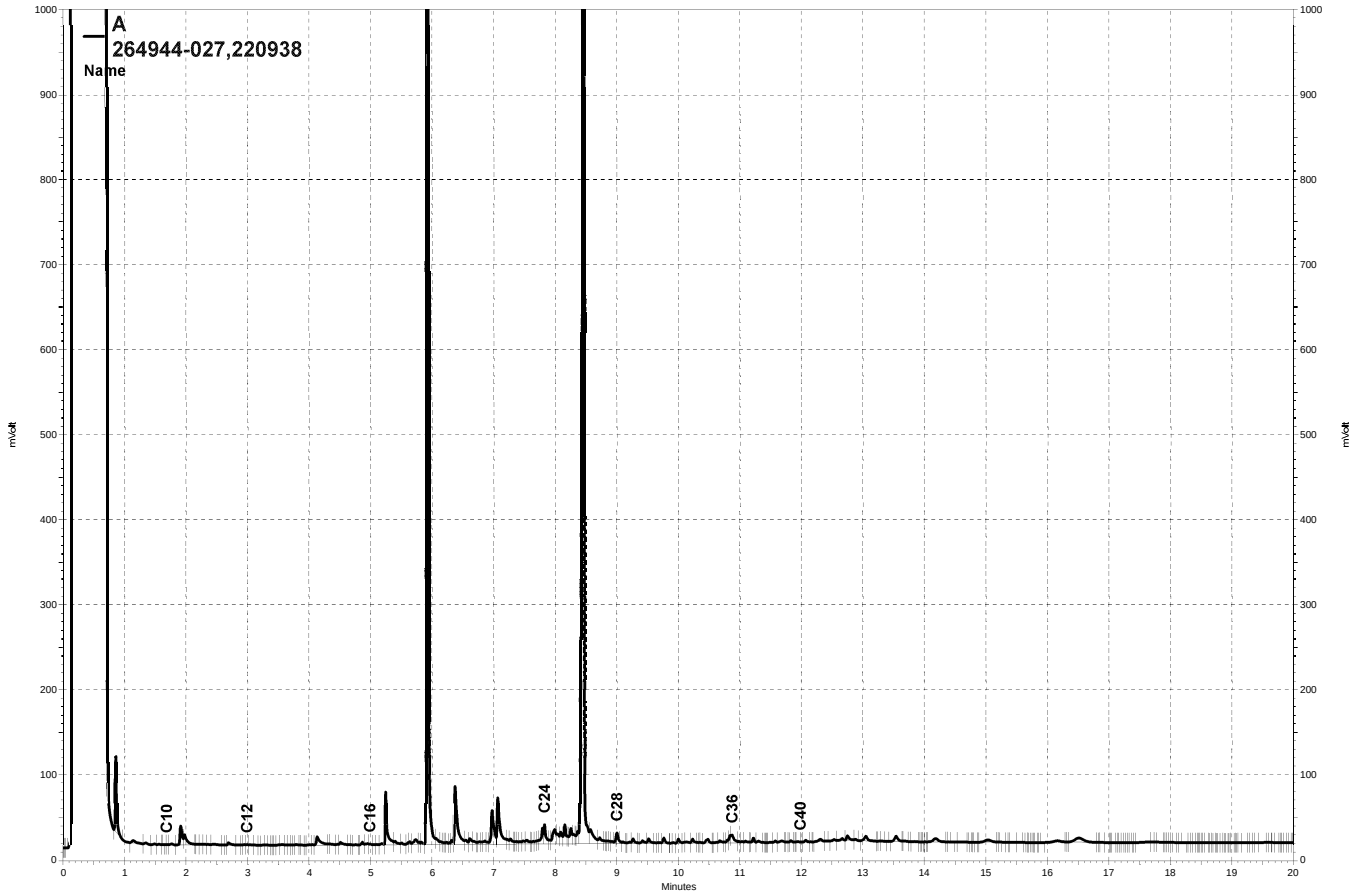


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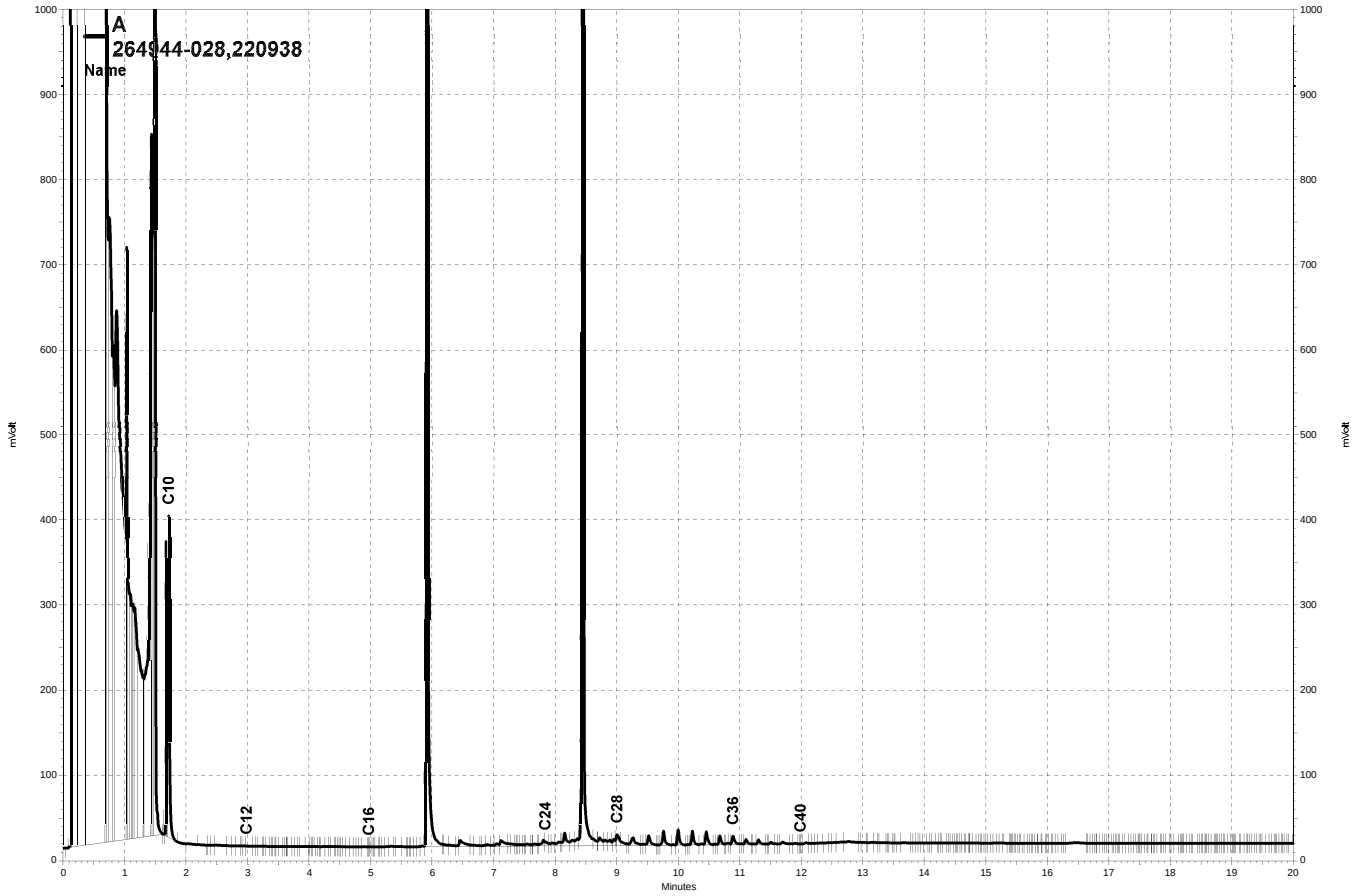


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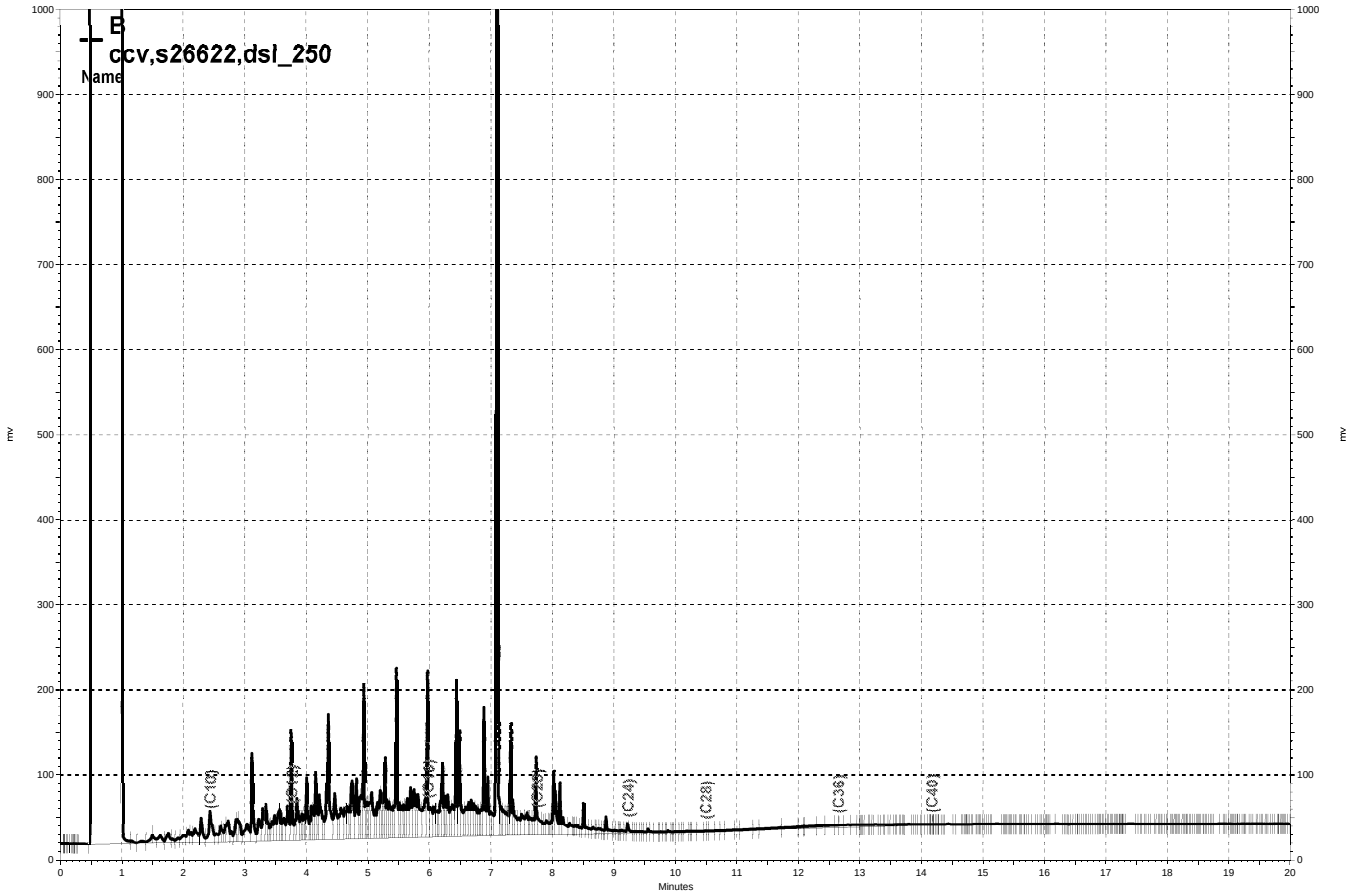


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Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 | Diln Fac: | 1.000 |
| Lab ID: | 264944-029 | Sampled: | 02/25/15 |
| Matrix: | Water | Received: | 02/27/15 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | 220960 | 03/03/15 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 220994 | 03/04/15 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 220994 | 03/04/15 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 220994 | 03/04/15 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 220994 | 03/04/15 |
| Ethanol | ND | 1,000 | 220994 | 03/04/15 |
| MTBE | ND | 0.50 | 220994 | 03/04/15 |
| 1,2-Dichloroethane | ND | 0.50 | 220994 | 03/04/15 |
| Benzene | 0.82 | 0.50 | 220994 | 03/04/15 |
| Toluene | ND | 0.50 | 220994 | 03/04/15 |
| 1,2-Dibromoethane | ND | 0.50 | 220994 | 03/04/15 |
| Ethylbenzene | ND | 0.50 | 220994 | 03/04/15 |
| m,p-Xylenes | ND | 0.50 | 220994 | 03/04/15 |
| o-Xylene | ND | 0.50 | 220994 | 03/04/15 |
| Naphthalene | ND | 2.0 | 220994 | 03/04/15 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 101 | 80-128 | 220994 | 03/04/15 |
| 1,2-Dichloroethane-d4 | 106 | 75-139 | 220994 | 03/04/15 |
| Toluene-d8 | 97 | 80-120 | 220994 | 03/04/15 |
| Bromofluorobenzene | 97 | 80-120 | 220994 | 03/04/15 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 | Diln Fac: | 1.000 |
| Lab ID: | 264944-030 | Sampled: | 02/25/15 |
| Matrix: | Water | Received: | 02/27/15 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 99 | 50 | 220960 | 03/03/15 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 220994 | 03/04/15 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 220994 | 03/04/15 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 220994 | 03/04/15 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 220994 | 03/04/15 |
| Ethanol | ND | 1,000 | 220994 | 03/04/15 |
| MTBE | ND | 0.50 | 220994 | 03/04/15 |
| 1,2-Dichloroethane | ND | 0.50 | 220994 | 03/04/15 |
| Benzene | ND | 0.50 | 220994 | 03/04/15 |
| Toluene | ND | 0.50 | 220994 | 03/04/15 |
| 1,2-Dibromoethane | ND | 0.50 | 220994 | 03/04/15 |
| Ethylbenzene | ND | 0.50 | 220994 | 03/04/15 |
| m,p-Xylenes | ND | 0.50 | 220994 | 03/04/15 |
| o-Xylene | ND | 0.50 | 220994 | 03/04/15 |
| Naphthalene | ND | 2.0 | 220994 | 03/04/15 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 100 | 80-128 | 220994 | 03/04/15 |
| 1,2-Dichloroethane-d4 | 108 | 75-139 | 220994 | 03/04/15 |
| Toluene-d8 | 95 | 80-120 | 220994 | 03/04/15 |
| Bromofluorobenzene | 96 | 80-120 | 220994 | 03/04/15 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 | Diln Fac: | 1.000 |
| Lab ID: | 264944-031 | Sampled: | 02/25/15 |
| Matrix: | Water | Received: | 02/27/15 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|---|---|---|---|---|
| Gasoline C7-C12 | 62 | 50 | 220960 | 03/03/15 |
| tert-Butyl Alcohol (TBA) | ND | 10 | 220994 | 03/04/15 |
| Isopropyl Ether (DIPE) | ND | 0.50 | 220994 | 03/04/15 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | 220994 | 03/04/15 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 | 220994 | 03/04/15 |
| Ethanol | ND | 1,000 | 220994 | 03/04/15 |
| MTBE | ND | 0.50 | 220994 | 03/04/15 |
| 1,2-Dichloroethane | ND | 0.50 | 220994 | 03/04/15 |
| Benzene | 3.0 | 0.50 | 220994 | 03/04/15 |
| Toluene | ND | 0.50 | 220994 | 03/04/15 |
| 1,2-Dibromoethane | ND | 0.50 | 220994 | 03/04/15 |
| Ethylbenzene | ND | 0.50 | 220994 | 03/04/15 |
| m,p-Xylenes | 2.2 | 0.50 | 220994 | 03/04/15 |
| o-Xylene | ND | 0.50 | 220994 | 03/04/15 |
| Naphthalene | ND | 2.0 | 220994 | 03/04/15 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|---|---|---|---|---|
| Dibromofluoromethane | 101 | 80-128 | 220994 | 03/04/15 |
| 1,2-Dichloroethane-d4 | 110 | 75-139 | 220994 | 03/04/15 |
| Toluene-d8 | 101 | 80-120 | 220994 | 03/04/15 |
| Bromofluorobenzene | 101 | 80-120 | 220994 | 03/04/15 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 220960 |
| Units: | ug/L | Analyzed: | 03/03/15 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC779288

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 980.3 | 98 | 76-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 103 | 80-128 |
| 1,2-Dichloroethane-d4 | 100 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 98 | 80-120 |

Type: BSD Lab ID: QC779289

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 962.3 | 96 | 76-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-128 |
| 1,2-Dichloroethane-d4 | 95 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 103 | 80-120 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779290 | Batch#: | 220960 |
| Matrix: | Water | Analyzed: | 03/03/15 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |
| Naphthalene | ND | 2.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-128 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779413 | Batch#: | 220994 |
| Matrix: | Water | Analyzed: | 03/04/15 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | NA | |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |
| Naphthalene | ND | 2.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 80-128 |
| 1,2-Dichloroethane-d4 | 102 | 75-139 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 220994 |
| Units: | ug/L | Analyzed: | 03/04/15 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC779414

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 100.0 | 85.89 | 86 | 32-155 |
| Isopropyl Ether (DIPE) | 20.00 | 17.68 | 88 | 57-128 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 18.24 | 91 | 62-120 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 19.16 | 96 | 69-120 |
| Ethanol | 2,000 | 1,761 | 88 | 32-158 |
| MTBE | 20.00 | 18.94 | 95 | 65-120 |
| 1,2-Dichloroethane | 20.00 | 20.65 | 103 | 74-133 |
| Benzene | 20.00 | 21.27 | 106 | 80-123 |
| Toluene | 20.00 | 21.88 | 109 | 80-121 |
| 1,2-Dibromoethane | 20.00 | 21.12 | 106 | 80-120 |
| Ethylbenzene | 20.00 | 22.28 | 111 | 80-123 |
| m,p-Xylenes | 40.00 | 42.48 | 106 | 80-126 |
| o-Xylene | 20.00 | 22.04 | 110 | 80-126 |
| Naphthalene | 20.00 | 17.85 | 89 | 53-139 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 100 | 80-128 |
| 1,2-Dichloroethane-d4 | 102 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

Type: BSD Lab ID: QC779415

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 100.0 | 80.07 | 80 | 32-155 | 7 | 33 |
| Isopropyl Ether (DIPE) | 20.00 | 16.59 | 83 | 57-128 | 6 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 17.33 | 87 | 62-120 | 5 | 20 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 17.99 | 90 | 69-120 | 6 | 20 |
| Ethanol | 2,000 | 1,489 | 74 | 32-158 | 17 | 46 |
| MTBE | 20.00 | 18.15 | 91 | 65-120 | 4 | 22 |
| 1,2-Dichloroethane | 20.00 | 20.05 | 100 | 74-133 | 3 | 20 |
| Benzene | 20.00 | 19.21 | 96 | 80-123 | 10 | 20 |
| Toluene | 20.00 | 20.60 | 103 | 80-121 | 6 | 20 |
| 1,2-Dibromoethane | 20.00 | 20.69 | 103 | 80-120 | 2 | 20 |
| Ethylbenzene | 20.00 | 20.26 | 101 | 80-123 | 10 | 21 |
| m,p-Xylenes | 40.00 | 41.57 | 104 | 80-126 | 2 | 21 |
| o-Xylene | 20.00 | 21.39 | 107 | 80-126 | 3 | 20 |
| Naphthalene | 20.00 | 17.44 | 87 | 53-139 | 2 | 25 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 80-128 |
| 1,2-Dichloroethane-d4 | 98 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 96 | 80-120 |

RPD= Relative Percent Difference

Data File: \\gcmsserver\DD\chem\MSVOA06.i\030315.b\FC317TVH.D



Date : 03-MAR-2015 19:04

Client ID: DYNA P&T

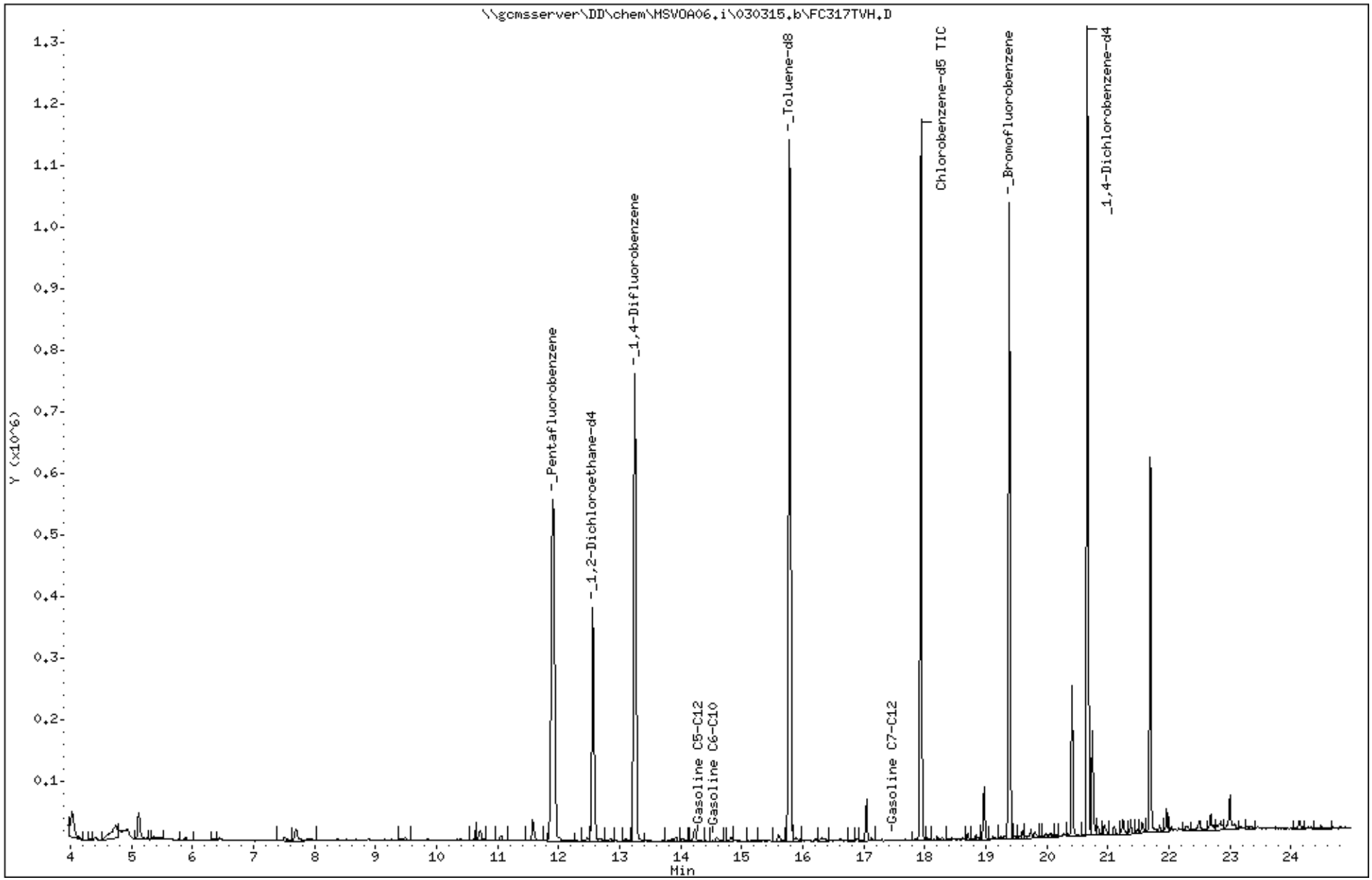
Instrument: MSVOA06.i

Sample Info: S,264944-030

Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\030315.b\FC318TVH.D



Date : 03-MAR-2015 19:37

Client ID: DYNA P&T

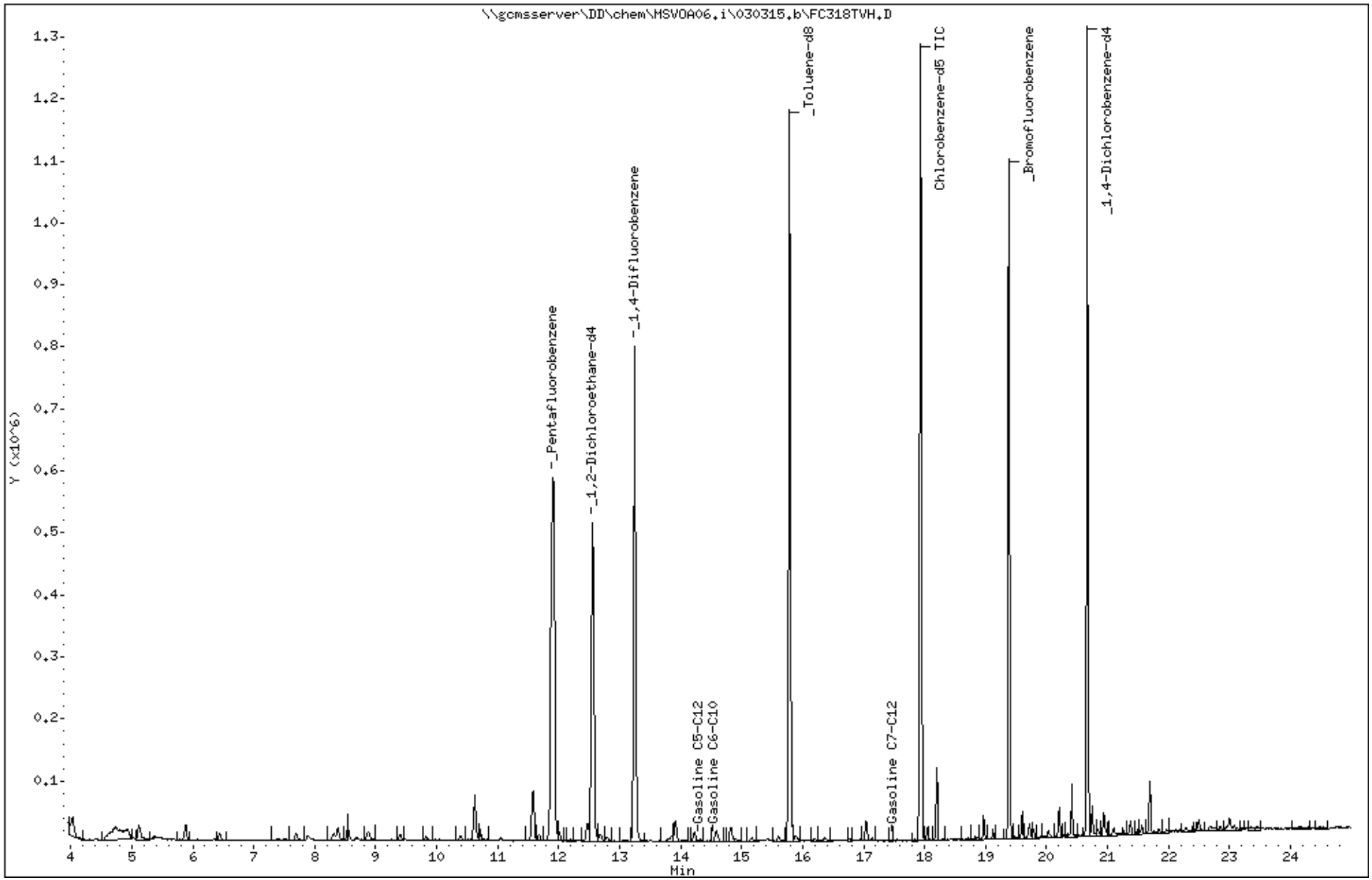
Instrument: MSVOA06.i

Sample Info: S,264944-031

Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\gcmsserver\DD\chem\MSVOA06.i\030315.b\FC310TVH.D



Date : 03-MAR-2015 15:15

Client ID: DYNA P&T

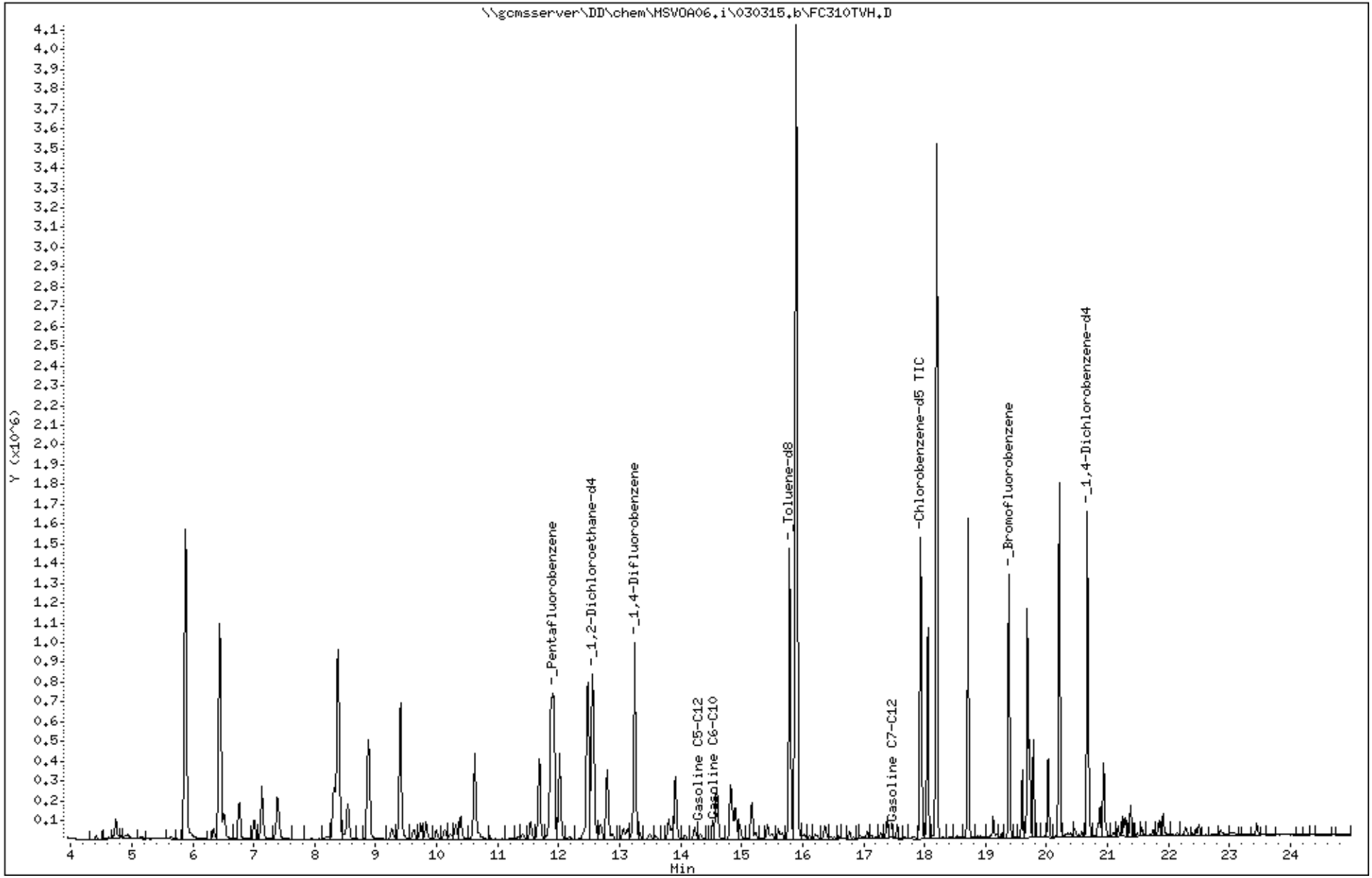
Instrument: MSVOA06.i

Sample Info: CCV/bs,qc779288,220960,S26208,.01/100

Operator: VOC

Column phase:

Column diameter: 2.00



Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 1FT | Diln Fac: | 0.9921 |
| Lab ID: | 264944-001 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/24/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 99 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 990 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 78-134 |
| 1,2-Dichloroethane-d4 | 86 | 80-138 |
| Toluene-d8 | 94 | 80-120 |
| Bromofluorobenzene | 88 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 3FT | Diln Fac: | 0.9363 |
| Lab ID: | 264944-002 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/24/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 94 |
| MTBE | ND | 4.7 |
| Isopropyl Ether (DIPE) | ND | 4.7 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 |
| 1,2-Dichloroethane | ND | 4.7 |
| Benzene | ND | 4.7 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 |
| Ethanol | ND | 940 |
| Toluene | ND | 4.7 |
| 1,2-Dibromoethane | ND | 4.7 |
| Ethylbenzene | ND | 4.7 |
| m,p-Xylenes | ND | 4.7 |
| o-Xylene | ND | 4.7 |
| Naphthalene | ND | 4.7 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 78-134 |
| 1,2-Dichloroethane-d4 | 86 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 89 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 5.5FT | Diln Fac: | 0.9901 |
| Lab ID: | 264944-003 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/25/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 99 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 990 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 78-134 |
| 1,2-Dichloroethane-d4 | 86 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 89 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 10.5FT | Diln Fac: | 2.427 |
| Lab ID: | 264944-004 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/25/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 240 |
| MTBE | ND | 12 |
| Isopropyl Ether (DIPE) | ND | 12 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 12 |
| 1,2-Dichloroethane | ND | 12 |
| Benzene | ND | 12 |
| Methyl tert-Amyl Ether (TAME) | ND | 12 |
| Ethanol | ND | 2,400 |
| Toluene | ND | 12 |
| 1,2-Dibromoethane | ND | 12 |
| Ethylbenzene | ND | 12 |
| m,p-Xylenes | ND | 12 |
| o-Xylene | ND | 12 |
| Naphthalene | ND | 12 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 95 | 78-134 |
| 1,2-Dichloroethane-d4 | 83 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 89 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 15.5FT | Diln Fac: | 5.000 |
| Lab ID: | 264944-005 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/25/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 500 |
| MTBE | ND | 25 |
| Isopropyl Ether (DIPE) | ND | 25 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 25 |
| 1,2-Dichloroethane | ND | 25 |
| Benzene | 40 | 25 |
| Methyl tert-Amyl Ether (TAME) | ND | 25 |
| Ethanol | ND | 5,000 |
| Toluene | ND | 25 |
| 1,2-Dibromoethane | ND | 25 |
| Ethylbenzene | ND | 25 |
| m,p-Xylenes | ND | 25 |
| o-Xylene | ND | 25 |
| Naphthalene | 250 | 25 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 91 | 78-134 |
| 1,2-Dichloroethane-d4 | 80 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 98 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 20.5FT | Diln Fac: | 0.9398 |
| Lab ID: | 264944-006 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/25/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | 1,100 | 94 |
| MTBE | ND | 4.7 |
| Isopropyl Ether (DIPE) | ND | 4.7 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 |
| 1,2-Dichloroethane | ND | 4.7 |
| Benzene | ND | 4.7 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 |
| Ethanol | ND | 940 |
| Toluene | ND | 4.7 |
| 1,2-Dibromoethane | ND | 4.7 |
| Ethylbenzene | ND | 4.7 |
| m,p-Xylenes | ND | 4.7 |
| o-Xylene | ND | 4.7 |
| Naphthalene | ND | 4.7 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 103 | 78-134 |
| 1,2-Dichloroethane-d4 | 86 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 25.5FT | Diln Fac: | 0.9597 |
| Lab ID: | 264944-007 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/25/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 96 |
| MTBE | ND | 4.8 |
| Isopropyl Ether (DIPE) | ND | 4.8 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 |
| 1,2-Dichloroethane | ND | 4.8 |
| Benzene | ND | 4.8 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 |
| Ethanol | ND | 960 |
| Toluene | ND | 4.8 |
| 1,2-Dibromoethane | ND | 4.8 |
| Ethylbenzene | ND | 4.8 |
| m,p-Xylenes | ND | 4.8 |
| o-Xylene | ND | 4.8 |
| Naphthalene | ND | 4.8 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 78-134 |
| 1,2-Dichloroethane-d4 | 84 | 80-138 |
| Toluene-d8 | 94 | 80-120 |
| Bromofluorobenzene | 88 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 30.5FT | Diln Fac: | 0.9311 |
| Lab ID: | 264944-008 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/25/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 93 |
| MTBE | ND | 4.7 |
| Isopropyl Ether (DIPE) | ND | 4.7 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 |
| 1,2-Dichloroethane | ND | 4.7 |
| Benzene | ND | 4.7 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 |
| Ethanol | ND | 930 |
| Toluene | ND | 4.7 |
| 1,2-Dibromoethane | ND | 4.7 |
| Ethylbenzene | ND | 4.7 |
| m,p-Xylenes | ND | 4.7 |
| o-Xylene | ND | 4.7 |
| Naphthalene | ND | 4.7 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 78-134 |
| 1,2-Dichloroethane-d4 | 84 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 88 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 34.5FT | Diln Fac: | 0.9901 |
| Lab ID: | 264944-009 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/25/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 99 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 990 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 78-134 |
| 1,2-Dichloroethane-d4 | 86 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 88 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 1FT | Diln Fac: | 0.9506 |
| Lab ID: | 264944-010 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/23/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 95 |
| MTBE | ND | 4.8 |
| Isopropyl Ether (DIPE) | ND | 4.8 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 |
| 1,2-Dichloroethane | ND | 4.8 |
| Benzene | ND | 4.8 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 |
| Ethanol | ND | 950 |
| Toluene | ND | 4.8 |
| 1,2-Dibromoethane | ND | 4.8 |
| Ethylbenzene | ND | 4.8 |
| m,p-Xylenes | ND | 4.8 |
| o-Xylene | ND | 4.8 |
| Naphthalene | ND | 4.8 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 78-134 |
| 1,2-Dichloroethane-d4 | 85 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 2FT | Diln Fac: | 0.9785 |
| Lab ID: | 264944-011 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/23/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 98 |
| MTBE | ND | 4.9 |
| Isopropyl Ether (DIPE) | ND | 4.9 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Benzene | ND | 4.9 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 |
| Ethanol | ND | 980 |
| Toluene | ND | 4.9 |
| 1,2-Dibromoethane | ND | 4.9 |
| Ethylbenzene | ND | 4.9 |
| m,p-Xylenes | ND | 4.9 |
| o-Xylene | ND | 4.9 |
| Naphthalene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 78-134 |
| 1,2-Dichloroethane-d4 | 85 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 3FT | Diln Fac: | 0.9709 |
| Lab ID: | 264944-012 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/23/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 97 |
| MTBE | ND | 4.9 |
| Isopropyl Ether (DIPE) | ND | 4.9 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Benzene | ND | 4.9 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 |
| Ethanol | ND | 970 |
| Toluene | ND | 4.9 |
| 1,2-Dibromoethane | ND | 4.9 |
| Ethylbenzene | ND | 4.9 |
| m,p-Xylenes | ND | 4.9 |
| o-Xylene | ND | 4.9 |
| Naphthalene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 78-134 |
| 1,2-Dichloroethane-d4 | 87 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 89 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 1FT | Diln Fac: | 0.9862 |
| Lab ID: | 264944-013 | Batch#: | 220949 |
| Matrix: | Soil | Sampled: | 02/24/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/03/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 99 |
| MTBE | ND | 4.9 |
| Isopropyl Ether (DIPE) | ND | 4.9 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Benzene | ND | 4.9 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 |
| Ethanol | ND | 990 |
| Toluene | ND | 4.9 |
| 1,2-Dibromoethane | ND | 4.9 |
| Ethylbenzene | ND | 4.9 |
| m,p-Xylenes | ND | 4.9 |
| o-Xylene | ND | 4.9 |
| Naphthalene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 78-134 |
| 1,2-Dichloroethane-d4 | 85 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 91 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 3FT | Diln Fac: | 0.9921 |
| Lab ID: | 264944-014 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/24/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 99 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 990 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 78-134 |
| 1,2-Dichloroethane-d4 | 103 | 80-138 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 102 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 5.5FT | Diln Fac: | 0.8929 |
| Lab ID: | 264944-015 | Batch#: | 221018 |
| Matrix: | Soil | Sampled: | 02/26/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 89 |
| MTBE | ND | 4.5 |
| Isopropyl Ether (DIPE) | ND | 4.5 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.5 |
| 1,2-Dichloroethane | ND | 4.5 |
| Benzene | ND | 4.5 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.5 |
| Ethanol | ND | 890 |
| Toluene | ND | 4.5 |
| 1,2-Dibromoethane | ND | 4.5 |
| Ethylbenzene | ND | 4.5 |
| m,p-Xylenes | ND | 4.5 |
| o-Xylene | ND | 4.5 |
| Naphthalene | ND | 4.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 78-134 |
| 1,2-Dichloroethane-d4 | 87 | 80-138 |
| Toluene-d8 | 92 | 80-120 |
| Bromofluorobenzene | 88 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 10.5FT | Diln Fac: | 0.9488 |
| Lab ID: | 264944-016 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/26/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 95 |
| MTBE | ND | 4.7 |
| Isopropyl Ether (DIPE) | ND | 4.7 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 |
| 1,2-Dichloroethane | ND | 4.7 |
| Benzene | ND | 4.7 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 |
| Ethanol | ND | 950 |
| Toluene | ND | 4.7 |
| 1,2-Dibromoethane | ND | 4.7 |
| Ethylbenzene | ND | 4.7 |
| m,p-Xylenes | ND | 4.7 |
| o-Xylene | ND | 4.7 |
| Naphthalene | ND | 4.7 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 78-134 |
| 1,2-Dichloroethane-d4 | 104 | 80-138 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 109 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 15.5FT | Basis: | as received |
| Lab ID: | 264944-017 | Sampled: | 02/26/15 |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | ug/Kg | | |

| Analyte | Result | RL | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 5,000 | 50.00 | 221117 | 03/08/15 |
| MTBE | ND | 250 | 50.00 | 221117 | 03/08/15 |
| Isopropyl Ether (DIPE) | ND | 250 | 50.00 | 221117 | 03/08/15 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 250 | 50.00 | 221117 | 03/08/15 |
| 1,2-Dichloroethane | ND | 250 | 50.00 | 221117 | 03/08/15 |
| Benzene | 260 | 250 | 50.00 | 221117 | 03/08/15 |
| Methyl tert-Amyl Ether (TAME) | ND | 250 | 50.00 | 221117 | 03/08/15 |
| Ethanol | ND | 50,000 | 50.00 | 221117 | 03/08/15 |
| Toluene | ND | 250 | 50.00 | 221117 | 03/08/15 |
| 1,2-Dibromoethane | ND | 250 | 50.00 | 221117 | 03/08/15 |
| Ethylbenzene | 2,300 | 250 | 50.00 | 221117 | 03/08/15 |
| m,p-Xylenes | 26,000 | 500 | 100.0 | 221124 | 03/09/15 |
| o-Xylene | ND | 250 | 50.00 | 221117 | 03/08/15 |
| Naphthalene | 12,000 | 500 | 100.0 | 221124 | 03/09/15 |

| Surrogate | %REC | Limits | Diln Fac | Batch# | Analyzed |
|---|---|---|---|---|---|
| Dibromofluoromethane | 94 | 78-134 | 50.00 | 221117 | 03/08/15 |
| 1,2-Dichloroethane-d4 | 96 | 80-138 | 50.00 | 221117 | 03/08/15 |
| Toluene-d8 | 93 | 80-120 | 50.00 | 221117 | 03/08/15 |
| Bromofluorobenzene | 160 * | 78-123 | 50.00 | 221117 | 03/08/15 |
| Trifluorotoluene (MeOH) | 105 | 52-147 | 50.00 | 221117 | 03/08/15 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 20.5FT | Diln Fac: | 0.9259 |
| Lab ID: | 264944-018 | Batch#: | 221063 |
| Matrix: | Soil | Sampled: | 02/26/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/06/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | 1,200 | 93 |
| MTBE | ND | 4.6 |
| Isopropyl Ether (DIPE) | ND | 4.6 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.6 |
| 1,2-Dichloroethane | ND | 4.6 |
| Benzene | ND | 4.6 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.6 |
| Ethanol | ND | 930 |
| Toluene | ND | 4.6 |
| 1,2-Dibromoethane | ND | 4.6 |
| Ethylbenzene | ND | 4.6 |
| m,p-Xylenes | ND | 4.6 |
| o-Xylene | ND | 4.6 |
| Naphthalene | ND | 4.6 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 78-134 |
| 1,2-Dichloroethane-d4 | 102 | 80-138 |
| Toluene-d8 | 92 | 80-120 |
| Bromofluorobenzene | 94 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 25.5FT | Diln Fac: | 0.9242 |
| Lab ID: | 264944-019 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/26/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 92 |
| MTBE | ND | 4.6 |
| Isopropyl Ether (DIPE) | ND | 4.6 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.6 |
| 1,2-Dichloroethane | ND | 4.6 |
| Benzene | ND | 4.6 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.6 |
| Ethanol | ND | 920 |
| Toluene | ND | 4.6 |
| 1,2-Dibromoethane | ND | 4.6 |
| Ethylbenzene | ND | 4.6 |
| m,p-Xylenes | ND | 4.6 |
| o-Xylene | ND | 4.6 |
| Naphthalene | ND | 4.6 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 99 | 78-134 |
| 1,2-Dichloroethane-d4 | 87 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 103 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 30.5FT | Diln Fac: | 0.9747 |
| Lab ID: | 264944-020 | Batch#: | 221018 |
| Matrix: | Soil | Sampled: | 02/26/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 97 |
| MTBE | ND | 4.9 |
| Isopropyl Ether (DIPE) | ND | 4.9 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Benzene | ND | 4.9 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 |
| Ethanol | ND | 970 |
| Toluene | ND | 4.9 |
| 1,2-Dibromoethane | ND | 4.9 |
| Ethylbenzene | ND | 4.9 |
| m,p-Xylenes | ND | 4.9 |
| o-Xylene | ND | 4.9 |
| Naphthalene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 78-134 |
| 1,2-Dichloroethane-d4 | 87 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 89 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 34FT | Diln Fac: | 0.9843 |
| Lab ID: | 264944-021 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/26/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 98 |
| MTBE | ND | 4.9 |
| Isopropyl Ether (DIPE) | ND | 4.9 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Benzene | ND | 4.9 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 |
| Ethanol | ND | 980 |
| Toluene | ND | 4.9 |
| 1,2-Dibromoethane | ND | 4.9 |
| Ethylbenzene | ND | 4.9 |
| m,p-Xylenes | ND | 4.9 |
| o-Xylene | ND | 4.9 |
| Naphthalene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 78-134 |
| 1,2-Dichloroethane-d4 | 91 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 100 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 5.5FT | Diln Fac: | 0.9091 |
| Lab ID: | 264944-022 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 91 |
| MTBE | ND | 4.5 |
| Isopropyl Ether (DIPE) | ND | 4.5 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.5 |
| 1,2-Dichloroethane | ND | 4.5 |
| Benzene | ND | 4.5 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.5 |
| Ethanol | ND | 910 |
| Toluene | ND | 4.5 |
| 1,2-Dibromoethane | ND | 4.5 |
| Ethylbenzene | ND | 4.5 |
| m,p-Xylenes | ND | 4.5 |
| o-Xylene | ND | 4.5 |
| Naphthalene | ND | 4.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 99 | 78-134 |
| 1,2-Dichloroethane-d4 | 95 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 103 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 10.5FT | Diln Fac: | 0.9921 |
| Lab ID: | 264944-023 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 99 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 990 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 78-134 |
| 1,2-Dichloroethane-d4 | 103 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 100 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 15.5FT | Diln Fac: | 0.8961 |
| Lab ID: | 264944-024 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 90 |
| MTBE | ND | 4.5 |
| Isopropyl Ether (DIPE) | ND | 4.5 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.5 |
| 1,2-Dichloroethane | ND | 4.5 |
| Benzene | ND | 4.5 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.5 |
| Ethanol | ND | 900 |
| Toluene | ND | 4.5 |
| 1,2-Dibromoethane | ND | 4.5 |
| Ethylbenzene | ND | 4.5 |
| m,p-Xylenes | ND | 4.5 |
| o-Xylene | ND | 4.5 |
| Naphthalene | ND | 4.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 78-134 |
| 1,2-Dichloroethane-d4 | 101 | 80-138 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 109 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 20.5FT | Diln Fac: | 0.9524 |
| Lab ID: | 264944-025 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 95 |
| MTBE | ND | 4.8 |
| Isopropyl Ether (DIPE) | ND | 4.8 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 |
| 1,2-Dichloroethane | ND | 4.8 |
| Benzene | ND | 4.8 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 |
| Ethanol | ND | 950 |
| Toluene | ND | 4.8 |
| 1,2-Dibromoethane | ND | 4.8 |
| Ethylbenzene | ND | 4.8 |
| m,p-Xylenes | ND | 4.8 |
| o-Xylene | ND | 4.8 |
| Naphthalene | ND | 4.8 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 78-134 |
| 1,2-Dichloroethane-d4 | 86 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 103 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 25.5FT | Diln Fac: | 0.9488 |
| Lab ID: | 264944-026 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 95 |
| MTBE | ND | 4.7 |
| Isopropyl Ether (DIPE) | ND | 4.7 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 |
| 1,2-Dichloroethane | ND | 4.7 |
| Benzene | ND | 4.7 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 |
| Ethanol | ND | 950 |
| Toluene | ND | 4.7 |
| 1,2-Dibromoethane | ND | 4.7 |
| Ethylbenzene | ND | 4.7 |
| m,p-Xylenes | ND | 4.7 |
| o-Xylene | ND | 4.7 |
| Naphthalene | ND | 4.7 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 91 | 78-134 |
| 1,2-Dichloroethane-d4 | 87 | 80-138 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 102 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 30.5FT | Diln Fac: | 0.9728 |
| Lab ID: | 264944-027 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 97 |
| MTBE | ND | 4.9 |
| Isopropyl Ether (DIPE) | ND | 4.9 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Benzene | ND | 4.9 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 |
| Ethanol | ND | 970 |
| Toluene | ND | 4.9 |
| 1,2-Dibromoethane | ND | 4.9 |
| Ethylbenzene | ND | 4.9 |
| m,p-Xylenes | ND | 4.9 |
| o-Xylene | ND | 4.9 |
| Naphthalene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 78-134 |
| 1,2-Dichloroethane-d4 | 88 | 80-138 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 103 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 34FT | Diln Fac: | 0.9671 |
| Lab ID: | 264944-028 | Batch#: | 221030 |
| Matrix: | Soil | Sampled: | 02/27/15 |
| Units: | ug/Kg | Received: | 02/27/15 |
| Basis: | as received | Analyzed: | 03/05/15 |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 97 |
| MTBE | ND | 4.8 |
| Isopropyl Ether (DIPE) | ND | 4.8 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 |
| 1,2-Dichloroethane | ND | 4.8 |
| Benzene | ND | 4.8 |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 |
| Ethanol | ND | 970 |
| Toluene | ND | 4.8 |
| 1,2-Dibromoethane | ND | 4.8 |
| Ethylbenzene | ND | 4.8 |
| m,p-Xylenes | ND | 4.8 |
| o-Xylene | ND | 4.8 |
| Naphthalene | ND | 4.8 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 78-134 |
| 1,2-Dichloroethane-d4 | 91 | 80-138 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 103 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779247 | Batch#: | 220949 |
| Matrix: | Soil | Analyzed: | 03/03/15 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 125.0 | 100.6 | 81 | 49-131 |
| MTBE | 25.00 | 20.91 | 84 | 61-122 |
| Isopropyl Ether (DIPE) | 25.00 | 21.92 | 88 | 54-129 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 20.17 | 81 | 60-120 |
| 1,2-Dichloroethane | 25.00 | 20.72 | 83 | 78-136 |
| Benzene | 25.00 | 26.78 | 107 | 80-123 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 21.11 | 84 | 70-120 |
| Ethanol | 2,500 | 2,585 | 103 | 37-143 |
| Toluene | 25.00 | 25.13 | 101 | 80-120 |
| 1,2-Dibromoethane | 25.00 | 24.33 | 97 | 80-124 |
| Ethylbenzene | 25.00 | 24.46 | 98 | 80-122 |
| m,p-Xylenes | 50.00 | 50.37 | 101 | 80-127 |
| o-Xylene | 25.00 | 23.44 | 94 | 80-125 |
| Naphthalene | 25.00 | 23.33 | 93 | 63-135 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 78-134 |
| 1,2-Dichloroethane-d4 | 84 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779248 | Batch#: | 220949 |
| Matrix: | Soil | Analyzed: | 03/03/15 |
| Units: | ug/Kg | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 100 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 1,000 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 78-134 |
| 1,2-Dichloroethane-d4 | 82 | 80-138 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 87 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-12 @ 30.5FT | Batch#: | 220949 |
| MSS Lab ID: | 264944-008 | Sampled: | 02/25/15 |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | ug/Kg | Analyzed: | 03/03/15 |
| Basis: | as received | | |

Type: MS Diln Fac: 0.9881
Lab ID: QC779319

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | <8.063 | 247.0 | 194.3 | 79 | 44-120 |
| MTBE | <0.4507 | 49.41 | 41.66 | 84 | 49-120 |
| Isopropyl Ether (DIPE) | <0.5262 | 49.41 | 40.17 | 81 | 46-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.5299 | 49.41 | 38.55 | 78 | 48-120 |
| 1,2-Dichloroethane | <0.5815 | 49.41 | 36.13 | 73 | 55-124 |
| Benzene | <0.6494 | 49.41 | 46.15 | 93 | 57-120 |
| Methyl tert-Amyl Ether (TAME) | <0.4520 | 49.41 | 41.65 | 84 | 52-120 |
| Ethanol | <85.54 | 4,941 | 4,250 | 86 | 35-120 |
| Toluene | <0.7114 | 49.41 | 43.83 | 89 | 51-120 |
| 1,2-Dibromoethane | <0.4777 | 49.41 | 43.74 | 89 | 51-120 |
| Ethylbenzene | <0.6643 | 49.41 | 42.55 | 86 | 45-120 |
| m,p-Xylenes | <1.284 | 98.81 | 87.45 | 88 | 45-123 |
| o-Xylene | <0.5543 | 49.41 | 44.03 | 89 | 44-122 |
| Naphthalene | <0.9165 | 49.41 | 39.49 | 80 | 16-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 91 | 78-134 |
| 1,2-Dichloroethane-d4 | 79 * | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

Type: MSD Diln Fac: 0.9901
Lab ID: QC779320

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 247.5 | 186.2 | 75 | 44-120 | 4 | 46 |
| MTBE | 49.50 | 41.95 | 85 | 49-120 | 0 | 40 |
| Isopropyl Ether (DIPE) | 49.50 | 41.18 | 83 | 46-120 | 2 | 41 |
| Ethyl tert-Butyl Ether (ETBE) | 49.50 | 39.42 | 80 | 48-120 | 2 | 40 |
| 1,2-Dichloroethane | 49.50 | 36.92 | 75 | 55-124 | 2 | 41 |
| Benzene | 49.50 | 47.45 | 96 | 57-120 | 3 | 44 |
| Methyl tert-Amyl Ether (TAME) | 49.50 | 42.47 | 86 | 52-120 | 2 | 36 |
| Ethanol | 4,950 | 4,030 | 81 | 35-120 | 6 | 50 |
| Toluene | 49.50 | 44.81 | 91 | 51-120 | 2 | 47 |
| 1,2-Dibromoethane | 49.50 | 43.93 | 89 | 51-120 | 0 | 45 |
| Ethylbenzene | 49.50 | 43.46 | 88 | 45-120 | 2 | 55 |
| m,p-Xylenes | 99.01 | 89.77 | 91 | 45-123 | 2 | 53 |
| o-Xylene | 49.50 | 44.23 | 89 | 44-122 | 0 | 55 |
| Naphthalene | 49.50 | 38.62 | 78 | 16-120 | 2 | 59 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 91 | 78-134 |
| 1,2-Dichloroethane-d4 | 80 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 91 | 78-123 |

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779518 | Batch#: | 221018 |
| Matrix: | Soil | Analyzed: | 03/05/15 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 125.0 | 84.24 | 67 | 49-131 |
| MTBE | 25.00 | 20.54 | 82 | 61-122 |
| Isopropyl Ether (DIPE) | 25.00 | 22.62 | 90 | 54-129 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 20.16 | 81 | 60-120 |
| 1,2-Dichloroethane | 25.00 | 21.18 | 85 | 78-136 |
| Benzene | 25.00 | 26.17 | 105 | 80-123 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 20.89 | 84 | 70-120 |
| Ethanol | 2,500 | 2,083 | 83 | 37-143 |
| Toluene | 25.00 | 24.24 | 97 | 80-120 |
| 1,2-Dibromoethane | 25.00 | 23.26 | 93 | 80-124 |
| Ethylbenzene | 25.00 | 23.53 | 94 | 80-122 |
| m,p-Xylenes | 50.00 | 48.41 | 97 | 80-127 |
| o-Xylene | 25.00 | 23.07 | 92 | 80-125 |
| Naphthalene | 25.00 | 21.47 | 86 | 63-135 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 93 | 78-134 |
| 1,2-Dichloroethane-d4 | 82 | 80-138 |
| Toluene-d8 | 94 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779519 | Batch#: | 221018 |
| Matrix: | Soil | Analyzed: | 03/05/15 |
| Units: | ug/Kg | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 100 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 1,000 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 99 | 78-134 |
| 1,2-Dichloroethane-d4 | 82 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 87 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-14 @ 30.5FT | Batch#: | 221018 |
| MSS Lab ID: | 264944-020 | Sampled: | 02/26/15 |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | ug/Kg | Analyzed: | 03/06/15 |
| Basis: | as received | | |

Type: MS
Lab ID: QC779563

Diln Fac: 0.9766

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | <8.440 | 244.1 | 179.4 | 73 | 44-120 |
| MTBE | <0.4717 | 48.83 | 40.74 | 83 | 49-120 |
| Isopropyl Ether (DIPE) | <0.5508 | 48.83 | 42.27 | 87 | 46-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.5547 | 48.83 | 38.88 | 80 | 48-120 |
| 1,2-Dichloroethane | <0.6087 | 48.83 | 37.33 | 76 | 55-124 |
| Benzene | <0.6798 | 48.83 | 49.05 | 100 | 57-120 |
| Methyl tert-Amyl Ether (TAME) | <0.4732 | 48.83 | 41.21 | 84 | 52-120 |
| Ethanol | <89.54 | 4,883 | 3,975 | 81 | 35-120 |
| Toluene | <0.7446 | 48.83 | 46.49 | 95 | 51-120 |
| 1,2-Dibromoethane | <0.5001 | 48.83 | 45.88 | 94 | 51-120 |
| Ethylbenzene | <0.6954 | 48.83 | 45.21 | 93 | 45-120 |
| m,p-Xylenes | <1.344 | 97.66 | 93.34 | 96 | 45-123 |
| o-Xylene | <0.5802 | 48.83 | 44.63 | 91 | 44-122 |
| Naphthalene | <0.9593 | 48.83 | 43.62 | 89 | 16-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 92 | 78-134 |
| 1,2-Dichloroethane-d4 | 80 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

Type: MSD
Lab ID: QC779564

Diln Fac: 0.9597

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 239.9 | 151.0 | 63 | 44-120 | 15 | 46 |
| MTBE | 47.98 | 35.96 | 75 | 49-120 | 11 | 40 |
| Isopropyl Ether (DIPE) | 47.98 | 37.33 | 78 | 46-120 | 11 | 41 |
| Ethyl tert-Butyl Ether (ETBE) | 47.98 | 34.27 | 71 | 48-120 | 11 | 40 |
| 1,2-Dichloroethane | 47.98 | 34.96 | 73 | 55-124 | 5 | 41 |
| Benzene | 47.98 | 45.70 | 95 | 57-120 | 5 | 44 |
| Methyl tert-Amyl Ether (TAME) | 47.98 | 36.33 | 76 | 52-120 | 11 | 36 |
| Ethanol | 4,798 | 3,474 | 72 | 35-120 | 12 | 50 |
| Toluene | 47.98 | 42.91 | 89 | 51-120 | 6 | 47 |
| 1,2-Dibromoethane | 47.98 | 41.55 | 87 | 51-120 | 8 | 45 |
| Ethylbenzene | 47.98 | 41.98 | 87 | 45-120 | 6 | 55 |
| m,p-Xylenes | 95.97 | 86.44 | 90 | 45-123 | 6 | 53 |
| o-Xylene | 47.98 | 42.10 | 88 | 44-122 | 4 | 55 |
| Naphthalene | 47.98 | 39.96 | 83 | 16-120 | 7 | 59 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 92 | 78-134 |
| 1,2-Dichloroethane-d4 | 79 * | 80-138 |
| Toluene-d8 | 92 | 80-120 |
| Bromofluorobenzene | 89 | 78-123 |

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779565 | Batch#: | 221030 |
| Matrix: | Soil | Analyzed: | 03/05/15 |
| Units: | ug/Kg | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 100 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 1,000 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 78-134 |
| 1,2-Dichloroethane-d4 | 98 | 80-138 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 105 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Matrix: | Soil | Batch#: | 221030 |
| Units: | ug/Kg | Analyzed: | 03/05/15 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC779566

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 100.0 | 89.44 | 89 | 49-131 |
| MTBE | 20.00 | 18.96 | 95 | 61-122 |
| Isopropyl Ether (DIPE) | 20.00 | 20.53 | 103 | 54-129 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 19.52 | 98 | 60-120 |
| 1,2-Dichloroethane | 20.00 | 19.07 | 95 | 78-136 |
| Benzene | 20.00 | 20.59 | 103 | 80-123 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 18.32 | 92 | 70-120 |
| Ethanol | 2,000 | 1,849 | 92 | 37-143 |
| Toluene | 20.00 | 21.19 | 106 | 80-120 |
| 1,2-Dibromoethane | 20.00 | 19.69 | 98 | 80-124 |
| Ethylbenzene | 20.00 | 20.84 | 104 | 80-122 |
| m,p-Xylenes | 40.00 | 42.87 | 107 | 80-127 |
| o-Xylene | 20.00 | 21.54 | 108 | 80-125 |
| Naphthalene | 20.00 | 17.27 | 86 | 63-135 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 78-134 |
| 1,2-Dichloroethane-d4 | 98 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 100 | 78-123 |

Type: BSD Lab ID: QC779567

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 100.0 | 84.50 | 84 | 49-131 | 6 | 40 |
| MTBE | 20.00 | 19.41 | 97 | 61-122 | 2 | 26 |
| Isopropyl Ether (DIPE) | 20.00 | 20.17 | 101 | 54-129 | 2 | 24 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 19.19 | 96 | 60-120 | 2 | 24 |
| 1,2-Dichloroethane | 20.00 | 19.61 | 98 | 78-136 | 3 | 21 |
| Benzene | 20.00 | 20.51 | 103 | 80-123 | 0 | 21 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 18.00 | 90 | 70-120 | 2 | 22 |
| Ethanol | 2,000 | 1,769 | 88 | 37-143 | 4 | 49 |
| Toluene | 20.00 | 21.07 | 105 | 80-120 | 1 | 20 |
| 1,2-Dibromoethane | 20.00 | 19.51 | 98 | 80-124 | 1 | 21 |
| Ethylbenzene | 20.00 | 21.01 | 105 | 80-122 | 1 | 20 |
| m,p-Xylenes | 40.00 | 42.99 | 107 | 80-127 | 0 | 20 |
| o-Xylene | 20.00 | 21.32 | 107 | 80-125 | 1 | 20 |
| Naphthalene | 20.00 | 17.21 | 86 | 63-135 | 0 | 21 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 78-134 |
| 1,2-Dichloroethane-d4 | 94 | 80-138 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 95 | 78-123 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | SB-13 @ 30.5FT | Batch#: | 221030 |
| MSS Lab ID: | 264944-027 | Sampled: | 02/27/15 |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | ug/Kg | Analyzed: | 03/05/15 |
| Basis: | as received | | |

Type: MS
Lab ID: QC779654
Diln Fac: 0.9747

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | <12.89 | 243.7 | 215.5 | 88 | 44-120 |
| MTBE | <0.9731 | 48.73 | 40.96 | 84 | 49-120 |
| Isopropyl Ether (DIPE) | <0.8465 | 48.73 | 42.99 | 88 | 46-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.7128 | 48.73 | 40.03 | 82 | 48-120 |
| 1,2-Dichloroethane | <0.9011 | 48.73 | 38.79 | 80 | 55-124 |
| Benzene | <0.8777 | 48.73 | 44.13 | 91 | 57-120 |
| Methyl tert-Amyl Ether (TAME) | <0.5536 | 48.73 | 38.60 | 79 | 52-120 |
| Ethanol | <147.4 | 4,873 | 3,850 | 79 | 35-120 |
| Toluene | <0.6919 | 48.73 | 43.90 | 90 | 51-120 |
| 1,2-Dibromoethane | <0.6324 | 48.73 | 39.90 | 82 | 51-120 |
| Ethylbenzene | <0.6603 | 48.73 | 43.95 | 90 | 45-120 |
| m,p-Xylenes | <1.217 | 97.47 | 88.78 | 91 | 45-123 |
| o-Xylene | <0.6090 | 48.73 | 44.44 | 91 | 44-122 |
| Naphthalene | <0.3014 | 48.73 | 38.36 | 79 | 16-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 78-134 |
| 1,2-Dichloroethane-d4 | 96 | 80-138 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 97 | 78-123 |

Type: MSD
Lab ID: QC779655
Diln Fac: 0.9728

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 243.2 | 216.1 | 89 | 44-120 | 0 | 46 |
| MTBE | 48.64 | 40.83 | 84 | 49-120 | 0 | 40 |
| Isopropyl Ether (DIPE) | 48.64 | 44.00 | 90 | 46-120 | 3 | 41 |
| Ethyl tert-Butyl Ether (ETBE) | 48.64 | 40.89 | 84 | 48-120 | 2 | 40 |
| 1,2-Dichloroethane | 48.64 | 39.19 | 81 | 55-124 | 1 | 41 |
| Benzene | 48.64 | 44.51 | 92 | 57-120 | 1 | 44 |
| Methyl tert-Amyl Ether (TAME) | 48.64 | 38.80 | 80 | 52-120 | 1 | 36 |
| Ethanol | 4,864 | 3,975 | 82 | 35-120 | 3 | 50 |
| Toluene | 48.64 | 44.91 | 92 | 51-120 | 2 | 47 |
| 1,2-Dibromoethane | 48.64 | 41.12 | 85 | 51-120 | 3 | 45 |
| Ethylbenzene | 48.64 | 44.94 | 92 | 45-120 | 2 | 55 |
| m,p-Xylenes | 97.28 | 90.17 | 93 | 45-123 | 2 | 53 |
| o-Xylene | 48.64 | 45.43 | 93 | 44-122 | 2 | 55 |
| Naphthalene | 48.64 | 37.99 | 78 | 16-120 | 1 | 59 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 78-134 |
| 1,2-Dichloroethane-d4 | 96 | 80-138 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 95 | 78-123 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779691 | Batch#: | 221063 |
| Matrix: | Soil | Analyzed: | 03/06/15 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 125.0 | 109.0 | 87 | 49-131 |
| MTBE | 25.00 | 21.96 | 88 | 61-122 |
| Isopropyl Ether (DIPE) | 25.00 | 23.63 | 95 | 54-129 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 20.80 | 83 | 60-120 |
| 1,2-Dichloroethane | 25.00 | 23.22 | 93 | 78-136 |
| Benzene | 25.00 | 24.03 | 96 | 80-123 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 21.70 | 87 | 70-120 |
| Ethanol | 2,500 | 2,233 | 89 | 37-143 |
| Toluene | 25.00 | 22.22 | 89 | 80-120 |
| 1,2-Dibromoethane | 25.00 | 23.95 | 96 | 80-124 |
| Ethylbenzene | 25.00 | 22.18 | 89 | 80-122 |
| m,p-Xylenes | 50.00 | 44.40 | 89 | 80-127 |
| o-Xylene | 25.00 | 21.95 | 88 | 80-125 |
| Naphthalene | 25.00 | 22.57 | 90 | 63-135 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 78-134 |
| 1,2-Dichloroethane-d4 | 93 | 80-138 |
| Toluene-d8 | 92 | 80-120 |
| Bromofluorobenzene | 89 | 78-123 |

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779692 | Batch#: | 221063 |
| Matrix: | Soil | Analyzed: | 03/06/15 |
| Units: | ug/Kg | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 100 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 1,000 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 95 | 78-134 |
| 1,2-Dichloroethane-d4 | 92 | 80-138 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 221063 |
| MSS Lab ID: | 265076-002 | Sampled: | 03/04/15 |
| Matrix: | Soil | Received: | 03/05/15 |
| Units: | ug/Kg | Analyzed: | 03/06/15 |
| Basis: | as received | | |

Type: MS
Lab ID: QC779760

Diln Fac: 0.9843

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | <8.574 | 246.1 | 179.2 | 73 | 44-120 |
| MTBE | <0.4792 | 49.21 | 33.26 | 68 | 49-120 |
| Isopropyl Ether (DIPE) | <0.5596 | 49.21 | 34.50 | 70 | 46-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.5635 | 49.21 | 30.93 | 63 | 48-120 |
| 1,2-Dichloroethane | <0.6183 | 49.21 | 39.22 | 80 | 55-124 |
| Benzene | <0.6906 | 49.21 | 39.12 | 79 | 57-120 |
| Methyl tert-Amyl Ether (TAME) | <0.4807 | 49.21 | 33.03 | 67 | 52-120 |
| Ethanol | <90.96 | 4,921 | 2,722 | 55 | 35-120 |
| Toluene | <0.7564 | 49.21 | 33.66 | 68 | 51-120 |
| 1,2-Dibromoethane | <0.5080 | 49.21 | 31.13 | 63 | 51-120 |
| Ethylbenzene | <0.7064 | 49.21 | 33.56 | 68 | 45-120 |
| m,p-Xylenes | <1.365 | 98.43 | 65.74 | 67 | 45-123 |
| o-Xylene | <0.5894 | 49.21 | 32.32 | 66 | 44-122 |
| Naphthalene | <0.9745 | 49.21 | 20.44 | 42 | 16-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 97 | 78-134 |
| 1,2-Dichloroethane-d4 | 109 | 80-138 |
| Toluene-d8 | 92 | 80-120 |
| Bromofluorobenzene | 92 | 78-123 |

Type: MSD
Lab ID: QC779761

Diln Fac: 0.9980

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 249.5 | 222.0 | 89 | 44-120 | 20 | 46 |
| MTBE | 49.90 | 39.59 | 79 | 49-120 | 16 | 40 |
| Isopropyl Ether (DIPE) | 49.90 | 40.68 | 82 | 46-120 | 15 | 41 |
| Ethyl tert-Butyl Ether (ETBE) | 49.90 | 36.94 | 74 | 48-120 | 16 | 40 |
| 1,2-Dichloroethane | 49.90 | 43.13 | 86 | 55-124 | 8 | 41 |
| Benzene | 49.90 | 42.95 | 86 | 57-120 | 8 | 44 |
| Methyl tert-Amyl Ether (TAME) | 49.90 | 39.43 | 79 | 52-120 | 16 | 36 |
| Ethanol | 4,990 | 3,834 | 77 | 35-120 | 33 | 50 |
| Toluene | 49.90 | 37.33 | 75 | 51-120 | 9 | 47 |
| 1,2-Dibromoethane | 49.90 | 34.44 | 69 | 51-120 | 9 | 45 |
| Ethylbenzene | 49.90 | 36.95 | 74 | 45-120 | 8 | 55 |
| m,p-Xylenes | 99.80 | 73.51 | 74 | 45-123 | 10 | 53 |
| o-Xylene | 49.90 | 35.85 | 72 | 44-122 | 9 | 55 |
| Naphthalene | 49.90 | 25.16 | 50 | 16-120 | 19 | 59 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 97 | 78-134 |
| 1,2-Dichloroethane-d4 | 108 | 80-138 |
| Toluene-d8 | 91 | 80-120 |
| Bromofluorobenzene | 90 | 78-123 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779897 | Batch#: | 221117 |
| Matrix: | Soil | Analyzed: | 03/08/15 |
| Units: | ug/Kg | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 100 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 1,000 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 78-134 |
| 1,2-Dichloroethane-d4 | 99 | 80-138 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 103 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC779898 | Batch#: | 221117 |
| Matrix: | Soil | Analyzed: | 03/08/15 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 100.0 | 88.71 | 89 | 49-131 |
| MTBE | 20.00 | 20.26 | 101 | 61-122 |
| Isopropyl Ether (DIPE) | 20.00 | 21.24 | 106 | 54-129 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 19.55 | 98 | 60-120 |
| 1,2-Dichloroethane | 20.00 | 20.54 | 103 | 78-136 |
| Benzene | 20.00 | 23.03 | 115 | 80-123 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 18.45 | 92 | 70-120 |
| Ethanol | 2,000 | 2,066 | 103 | 37-143 |
| Toluene | 20.00 | 21.57 | 108 | 80-120 |
| 1,2-Dibromoethane | 20.00 | 19.43 | 97 | 80-124 |
| Ethylbenzene | 20.00 | 21.61 | 108 | 80-122 |
| m,p-Xylenes | 40.00 | 45.70 | 114 | 80-127 |
| o-Xylene | 20.00 | 21.88 | 109 | 80-125 |
| Naphthalene | 20.00 | 16.73 | 84 | 63-135 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 78-134 |
| 1,2-Dichloroethane-d4 | 99 | 80-138 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 98 | 78-123 |

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 221117 |
| MSS Lab ID: | 265137-002 | Sampled: | 03/06/15 |
| Matrix: | Soil | Received: | 03/06/15 |
| Units: | ug/Kg | Analyzed: | 03/08/15 |
| Basis: | as received | | |

Type: MS
Lab ID: QC779899

Diln Fac: 0.9747

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | <13.01 | 243.7 | 181.7 | 75 | 44-120 |
| MTBE | <0.9826 | 48.73 | 35.86 | 74 | 49-120 |
| Isopropyl Ether (DIPE) | <0.8549 | 48.73 | 38.80 | 80 | 46-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.7198 | 48.73 | 36.42 | 75 | 48-120 |
| 1,2-Dichloroethane | <0.9099 | 48.73 | 33.52 | 69 | 55-124 |
| Benzene | <0.8863 | 48.73 | 42.04 | 86 | 57-120 |
| Methyl tert-Amyl Ether (TAME) | <0.5591 | 48.73 | 36.34 | 75 | 52-120 |
| Ethanol | <148.9 | 4,873 | 3,744 | 77 | 35-120 |
| Toluene | <0.6987 | 48.73 | 43.52 | 89 | 51-120 |
| 1,2-Dibromoethane | <0.6386 | 48.73 | 39.62 | 81 | 51-120 |
| Ethylbenzene | <0.6668 | 48.73 | 39.18 | 80 | 45-120 |
| m,p-Xylenes | <1.229 | 97.47 | 77.32 | 79 | 45-123 |
| o-Xylene | <0.6150 | 48.73 | 38.85 | 80 | 44-122 |
| Naphthalene | <0.3043 | 48.73 | 25.15 | 52 | 16-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 95 | 78-134 |
| 1,2-Dichloroethane-d4 | 83 | 80-138 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 97 | 78-123 |

Type: MSD
Lab ID: QC779900

Diln Fac: 0.9709

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 242.7 | 207.8 | 86 | 44-120 | 14 | 46 |
| MTBE | 48.54 | 41.28 | 85 | 49-120 | 14 | 40 |
| Isopropyl Ether (DIPE) | 48.54 | 43.35 | 89 | 46-120 | 11 | 41 |
| Ethyl tert-Butyl Ether (ETBE) | 48.54 | 40.66 | 84 | 48-120 | 11 | 40 |
| 1,2-Dichloroethane | 48.54 | 32.90 | 68 | 55-124 | 1 | 41 |
| Benzene | 48.54 | 42.01 | 87 | 57-120 | 0 | 44 |
| Methyl tert-Amyl Ether (TAME) | 48.54 | 39.79 | 82 | 52-120 | 9 | 36 |
| Ethanol | 4,854 | 4,275 | 88 | 35-120 | 14 | 50 |
| Toluene | 48.54 | 40.76 | 84 | 51-120 | 6 | 47 |
| 1,2-Dibromoethane | 48.54 | 36.59 | 75 | 51-120 | 8 | 45 |
| Ethylbenzene | 48.54 | 36.82 | 76 | 45-120 | 6 | 55 |
| m,p-Xylenes | 97.09 | 72.63 | 75 | 45-123 | 6 | 53 |
| o-Xylene | 48.54 | 36.08 | 74 | 44-122 | 7 | 55 |
| Naphthalene | 48.54 | 22.94 | 47 | 16-120 | 9 | 59 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 78-134 |
| 1,2-Dichloroethane-d4 | 84 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 97 | 78-123 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC779919 | Batch#: | 221124 |
| Matrix: | Soil | Analyzed: | 03/09/15 |
| Units: | ug/Kg | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 100 |
| MTBE | ND | 5.0 |
| Isopropyl Ether (DIPE) | ND | 5.0 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 |
| Ethanol | ND | 1,000 |
| Toluene | ND | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Naphthalene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 78-134 |
| 1,2-Dichloroethane-d4 | 99 | 80-138 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 102 | 78-123 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Matrix: | Soil | Batch#: | 221124 |
| Units: | ug/Kg | Analyzed: | 03/09/15 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC779920

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 100.0 | 95.23 | 95 | 49-131 |
| MTBE | 20.00 | 19.50 | 97 | 61-122 |
| Isopropyl Ether (DIPE) | 20.00 | 19.98 | 100 | 54-129 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 18.84 | 94 | 60-120 |
| 1,2-Dichloroethane | 20.00 | 19.91 | 100 | 78-136 |
| Benzene | 20.00 | 22.00 | 110 | 80-123 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 19.06 | 95 | 70-120 |
| Ethanol | 2,000 | 2,010 | 100 | 37-143 |
| Toluene | 20.00 | 20.76 | 104 | 80-120 |
| 1,2-Dibromoethane | 20.00 | 20.13 | 101 | 80-124 |
| Ethylbenzene | 20.00 | 20.75 | 104 | 80-122 |
| m,p-Xylenes | 40.00 | 42.79 | 107 | 80-127 |
| o-Xylene | 20.00 | 21.40 | 107 | 80-125 |
| Naphthalene | 20.00 | 16.52 | 83 | 63-135 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 78-134 |
| 1,2-Dichloroethane-d4 | 98 | 80-138 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 96 | 78-123 |

Type: BSD Lab ID: QC779921

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 100.0 | 85.10 | 85 | 49-131 | 11 | 40 |
| MTBE | 20.00 | 18.47 | 92 | 61-122 | 5 | 26 |
| Isopropyl Ether (DIPE) | 20.00 | 19.12 | 96 | 54-129 | 4 | 24 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 17.88 | 89 | 60-120 | 5 | 24 |
| 1,2-Dichloroethane | 20.00 | 19.00 | 95 | 78-136 | 5 | 21 |
| Benzene | 20.00 | 21.01 | 105 | 80-123 | 5 | 21 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 17.81 | 89 | 70-120 | 7 | 22 |
| Ethanol | 2,000 | 1,766 | 88 | 37-143 | 13 | 49 |
| Toluene | 20.00 | 21.28 | 106 | 80-120 | 2 | 20 |
| 1,2-Dibromoethane | 20.00 | 19.70 | 98 | 80-124 | 2 | 21 |
| Ethylbenzene | 20.00 | 21.32 | 107 | 80-122 | 3 | 20 |
| m,p-Xylenes | 40.00 | 43.48 | 109 | 80-127 | 2 | 20 |
| o-Xylene | 20.00 | 21.08 | 105 | 80-125 | 1 | 20 |
| Naphthalene | 20.00 | 15.99 | 80 | 63-135 | 3 | 21 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 78-134 |
| 1,2-Dichloroethane-d4 | 96 | 80-138 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 95 | 78-123 |

RPD= Relative Percent Difference



69.0

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 6032 | Analysis: | EPA 8260B |
| Field ID: | ZZZZZZZZZZ | Dil'n Fac: | 1.000 |
| MSS Lab ID: | 265166-001 | Batch#: | 221124 |
| Matrix: | Soil | Sampled: | 03/09/15 |
| Units: | ug/Kg | Received: | 03/09/15 |
| Basis: | as received | Analyzed: | 03/09/15 |

Type: MS Lab ID: QC780038

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | | | NA | | |
| MTBE | | | NA | | |
| Isopropyl Ether (DIPE) | | | NA | | |
| Ethyl tert-Butyl Ether (ETBE) | | | NA | | |
| 1,2-Dichloroethane | <0.9171 | 50.00 | 42.16 | 84 | 55-124 |
| Benzene | <0.8934 | 50.00 | 48.20 | 96 | 57-120 |
| Methyl tert-Amyl Ether (TAME) | | | NA | | |
| Ethanol | | | NA | | |
| Toluene | <0.7043 | 50.00 | 44.62 | 89 | 51-120 |
| 1,2-Dibromoethane | <0.6437 | 50.00 | 43.00 | 86 | 51-120 |
| Ethylbenzene | <0.6721 | 50.00 | 41.46 | 83 | 45-120 |
| m,p-Xylenes | <1.239 | 100.0 | 83.96 | 84 | 45-123 |
| o-Xylene | <0.6199 | 50.00 | 41.95 | 84 | 44-122 |
| Naphthalene | 0.4541 | 50.00 | 25.69 | 50 | 16-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 103 | 78-134 |
| 1,2-Dichloroethane-d4 | 91 | 80-138 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 95 | 78-123 |

Type: MSD Lab ID: QC780039

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | | NA | | | | |
| MTBE | | NA | | | | |
| Isopropyl Ether (DIPE) | | NA | | | | |
| Ethyl tert-Butyl Ether (ETBE) | | NA | | | | |
| 1,2-Dichloroethane | 50.00 | 42.35 | 85 | 55-124 | 0 | 41 |
| Benzene | 50.00 | 46.89 | 94 | 57-120 | 3 | 44 |
| Methyl tert-Amyl Ether (TAME) | | NA | | | | |
| Ethanol | | NA | | | | |
| Toluene | 50.00 | 43.77 | 88 | 51-120 | 2 | 47 |
| 1,2-Dibromoethane | 50.00 | 44.52 | 89 | 51-120 | 3 | 45 |
| Ethylbenzene | 50.00 | 39.41 | 79 | 45-120 | 5 | 55 |
| m,p-Xylenes | 100.0 | 78.50 | 78 | 45-123 | 7 | 53 |
| o-Xylene | 50.00 | 38.58 | 77 | 44-122 | 8 | 55 |
| Naphthalene | 50.00 | 24.51 | 48 | 16-120 | 5 | 59 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 78-134 |
| 1,2-Dichloroethane-d4 | 93 | 80-138 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 98 | 78-123 |

NA= Not Analyzed
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

# Lead

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3050B |
| Project#: | 6032 | Analysis: | EPA 6010B |
| Analyte: | Lead | Diln Fac: | 1.000 |
| Matrix: | Soil | Received: | 02/27/15 |
| Units: | mg/Kg | Analyzed: | 03/04/15 |
| Basis: | as received | | |

| Field ID | Type | Lab ID | Result | RL | Batch# | Sampled | Prepared |
|---|---|---|---|---|---|---|---|
| SB-12 @ 1FT | SAMPLE | 264944-001 | 6.9 | 0.26 | 220989 | 02/24/15 | 03/04/15 |
| SB-12 @ 3FT | SAMPLE | 264944-002 | 10 | 0.27 | 220989 | 02/24/15 | 03/04/15 |
| SB-12 @ 5.5FT | SAMPLE | 264944-003 | 9.8 | 0.24 | 220989 | 02/25/15 | 03/04/15 |
| SB-12 @ 10.5FT | SAMPLE | 264944-004 | 6.5 | 0.24 | 220989 | 02/25/15 | 03/04/15 |
| SB-12 @ 15.5FT | SAMPLE | 264944-005 | 6.0 | 0.24 | 220989 | 02/25/15 | 03/04/15 |
| SB-12 @ 20.5FT | SAMPLE | 264944-006 | 8.4 | 0.23 | 220989 | 02/25/15 | 03/04/15 |
| SB-12 @ 25.5FT | SAMPLE | 264944-007 | 8.4 | 0.23 | 220989 | 02/25/15 | 03/04/15 |
| SB-12 @ 30.5FT | SAMPLE | 264944-008 | 7.1 | 0.24 | 220989 | 02/25/15 | 03/04/15 |
| SB-12 @ 34.5FT | SAMPLE | 264944-009 | 7.1 | 0.25 | 220989 | 02/25/15 | 03/04/15 |
| SB-13 @ 1FT | SAMPLE | 264944-010 | 8.5 | 0.27 | 220989 | 02/23/15 | 03/04/15 |
| SB-13 @ 2FT | SAMPLE | 264944-011 | 11 | 0.26 | 220989 | 02/23/15 | 03/04/15 |
| SB-13 @ 3FT | SAMPLE | 264944-012 | 5.2 | 0.26 | 220989 | 02/23/15 | 03/04/15 |
| SB-14 @ 1FT | SAMPLE | 264944-013 | 4.3 | 0.27 | 220989 | 02/24/15 | 03/04/15 |
| SB-14 @ 3FT | SAMPLE | 264944-014 | 6.4 | 0.23 | 220989 | 02/24/15 | 03/04/15 |
| SB-14 @ 5.5FT | SAMPLE | 264944-015 | 13 | 0.26 | 220989 | 02/26/15 | 03/04/15 |
| SB-14 @ 10.5FT | SAMPLE | 264944-016 | 5.4 | 0.27 | 220989 | 02/26/15 | 03/04/15 |
| SB-14 @ 15.5FT | SAMPLE | 264944-017 | 6.0 | 0.27 | 220989 | 02/26/15 | 03/04/15 |
| SB-14 @ 20.5FT | SAMPLE | 264944-018 | 9.0 | 0.25 | 220989 | 02/26/15 | 03/04/15 |
| SB-14 @ 25.5FT | SAMPLE | 264944-019 | 6.7 | 0.24 | 220989 | 02/26/15 | 03/04/15 |
| SB-14 @ 30.5FT | SAMPLE | 264944-020 | 5.4 | 0.24 | 220989 | 02/26/15 | 03/04/15 |
| SB-14 @ 34FT | SAMPLE | 264944-021 | 4.0 | 0.23 | 220965 | 02/26/15 | 03/03/15 |
| SB-13 @ 5.5FT | SAMPLE | 264944-022 | 3.3 | 0.25 | 220965 | 02/27/15 | 03/03/15 |
| SB-13 @ 10.5FT | SAMPLE | 264944-023 | 2.5 | 0.24 | 220965 | 02/27/15 | 03/03/15 |
| SB-13 @ 15.5FT | SAMPLE | 264944-024 | 3.7 | 0.23 | 220965 | 02/27/15 | 03/03/15 |
| SB-13 @ 20.5FT | SAMPLE | 264944-025 | 4.6 | 0.26 | 220965 | 02/27/15 | 03/03/15 |
| SB-13 @ 25.5FT | SAMPLE | 264944-026 | 4.7 | 0.24 | 220965 | 02/27/15 | 03/03/15 |
| SB-13 @ 30.5FT | SAMPLE | 264944-027 | 5.0 | 0.27 | 220965 | 02/27/15 | 03/03/15 |
| SB-13 @ 34FT | SAMPLE | 264944-028 | 5.5 | 0.23 | 220965 | 02/27/15 | 03/03/15 |
| | BLANK | QC779302 | ND | 0.25 | 220965 | | 03/03/15 |
| | BLANK | QC779398 | ND | 0.25 | 220989 | | 03/04/15 |

ND= Not Detected
RL= Reporting Limit

Batch QC Report

## Lead

| | | | |
|---|---|---|---|
| Lab #: | 264944 | Location: | 6039 College Ave, Oakland |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3050B |
| Project#: | 6032 | Analysis: | EPA 6010B |
| Analyte: | Lead | Basis: | as received |
| Matrix: | Soil | Diln Fac: | 5.000 |
| Units: | mg/Kg | Analyzed: | 03/04/15 |

| Field ID | Type | MSS Lab ID | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim | Batch# | Sampled | Received | Prepared |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BS | | QC779303 | | 50.00 | 46.63 | 93 | 80-120 | | | 220965 | | | 03/03/15 |
| | BSD | | QC779304 | | 50.00 | 43.60 | 87 | 80-120 | 7 | 20 | 220965 | | | 03/03/15 |
| ZZZZZZZZZZ | MS | 264992-001 | QC779305 | 1.325 | 49.50 | 45.35 | 89 | 53-125 | | | 220965 | 02/27/15 | 03/03/15 | 03/03/15 |
| ZZZZZZZZZZ | MSD | 264992-001 | QC779306 | | 50.51 | 46.61 | 90 | 53-125 | 1 | 42 | 220965 | 02/27/15 | 03/03/15 | 03/03/15 |
| | BS | | QC779399 | | 50.00 | 47.51 | 95 | 80-120 | | | 220989 | | | 03/04/15 |
| | BSD | | QC779400 | | 50.00 | 49.04 | 98 | 80-120 | 3 | 20 | 220989 | | | 03/04/15 |
| SB-12 @ 1FT | MS | 264944-001 | QC779401 | 6.939 | 54.35 | 54.22 | 87 | 53-125 | | | 220989 | 02/24/15 | 02/27/15 | 03/04/15 |
| SB-12 @ 1FT | MSD | 264944-001 | QC779402 | | 51.55 | 50.15 | 84 | 53-125 | 3 | 42 | 220989 | 02/24/15 | 02/27/15 | 03/04/15 |

RPD= Relative Percent Difference

# APPENDIX E

# CERTIFIED ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-102923-1
Client Project/Site: 6039 College Ave., Oakland

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Ms. Katherine Ward

Heather Clark

*Authorized for release by:*
*3/6/2015 2:51:09 PM*

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 440-102923-1 | SB-9-1 | Solid | 02/24/15 09:00 | 02/25/15 10:10 |
| 440-102923-2 | SB-9-3 | Solid | 02/24/15 09:05 | 02/25/15 10:10 |
| 440-102923-3 | SB-10-1 | Solid | 02/24/15 11:39 | 02/25/15 10:10 |
| 440-102923-4 | SB-10-3 | Solid | 02/24/15 11:46 | 02/25/15 10:10 |
| 440-102923-5 | SB-11-1 | Solid | 02/24/15 10:30 | 02/25/15 10:10 |
| 440-102923-6 | SB-11-3 | Solid | 02/24/15 10:36 | 02/25/15 10:10 |
| 440-102923-7 | SB-12-1 | Solid | 02/24/15 08:20 | 02/25/15 10:10 |
| 440-102923-8 | SB-12-3 | Solid | 02/24/15 08:25 | 02/25/15 10:10 |
| 440-102923-9 | SB-14-1 | Solid | 02/24/15 09:50 | 02/25/15 10:10 |
| 440-102923-10 | SB-14-3 | Solid | 02/24/15 09:57 | 02/25/15 10:10 |

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

## Job ID: 440-102923-1

### Laboratory: TestAmerica Irvine

**Narrative**

**Job Narrative**
**440-102923-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 2/25/2015 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.4º C and 3.8º C.

**GC/MS VOA**
Method(s) 8260B: Surrogate: Dibromofluoromethane recovery for the following sample(s) was outside control limits: (440-102438-3 MS), (440-102438-3 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/CA_LUFTMS: Surrogate: Dibromofluoromethane recovery for the following sample(s) was outside control limits: (440-102438-3 MS), (440-102438-3 MSD), CRA-A (440-102438-3). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 240720 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
Method(s) 6010B: The following sample(s) was diluted due to the nature of the sample matrix: SB-9-1 (440-102923-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Client Sample ID: SB-9-1

**Lab Sample ID: 440-102923-1**

**Date Collected: 02/24/15 09:00**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/01/15 16:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/01/15 16:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/01/15 16:13* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 16:13* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 16:13 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 16:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/01/15 16:13* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/01/15 16:13* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 16:13* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **16** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 22:30 | 1 |
| **ORO (C29-C40)** | **15** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 22:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *51* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 22:30* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 4.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:07 | 10 |

## Client Sample ID: SB-9-3

**Lab Sample ID: 440-102923-2**

**Date Collected: 02/24/15 09:05**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/01/15 19:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/01/15 19:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *03/01/15 19:30* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 19:30* | *1* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

## Client Sample ID: SB-9-3

**Lab Sample ID: 440-102923-2**

**Date Collected: 02/24/15 09:05**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:30 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 19:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *03/01/15 19:30* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/01/15 19:30* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 19:30* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **10** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 22:10 | 1 |
| **ORO (C29-C40)** | **6.8** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 22:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *57* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 22:10* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **5.0** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 19:42 | 5 |

## Client Sample ID: SB-10-1

**Lab Sample ID: 440-102923-3**

**Date Collected: 02/24/15 11:39**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/01/15 19:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 120* | | *03/01/15 19:58* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/01/15 19:58* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 19:58* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:58 | 1 |

## Client Sample ID: SB-10-1

**Lab Sample ID: 440-102923-3**

**Date Collected: 02/24/15 11:39**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 19:58 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 19:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/01/15 19:58* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 120* | | *03/01/15 19:58* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 19:58* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 21:50 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 21:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *55* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 21:50* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.7** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 19:43 | 5 |

## Client Sample ID: SB-10-3

**Lab Sample ID: 440-102923-4**

**Date Collected: 02/24/15 11:46**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/01/15 20:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* | | *03/01/15 20:26* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/01/15 20:26* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 20:26* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:26 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 20:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/01/15 20:26* | *1* |
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* | | *03/01/15 20:26* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 20:26* | *1* |

## Client Sample ID: SB-10-3

**Lab Sample ID: 440-102923-4**

**Date Collected: 02/24/15 11:46**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 18:31 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 18:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *48* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 18:31* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.0** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 19:45 | 5 |

## Client Sample ID: SB-11-1

**Lab Sample ID: 440-102923-5**

**Date Collected: 02/24/15 10:30**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/01/15 20:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *03/01/15 20:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/01/15 20:54* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/01/15 20:54* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 20:54 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 20:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/01/15 20:54* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *03/01/15 20:54* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/01/15 20:54* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **9.9** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 18:52 | 1 |
| **ORO (C29-C40)** | **5.2** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 18:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *64* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 18:52* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.0** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 19:47 | 5 |

## Client Sample ID: SB-11-3

**Lab Sample ID: 440-102923-6**

**Date Collected: 02/24/15 10:36**
**Matrix: Solid**
**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/01/15 21:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *111* | | *60 - 120* | | *03/01/15 21:22* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/01/15 21:22* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/01/15 21:22* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:22 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 21:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/01/15 21:22* | *1* |
| *Dibromofluoromethane (Surr)* | *111* | | *60 - 120* | | *03/01/15 21:22* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/01/15 21:22* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 19:31 | 1 |
| **ORO (C29-C40)** | **5.0** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 19:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *60* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 19:31* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.0** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 19:49 | 5 |

## Client Sample ID: SB-12-1

**Lab Sample ID: 440-102923-7**

**Date Collected: 02/24/15 08:20**
**Matrix: Solid**
**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/01/15 21:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* | | *03/01/15 21:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/01/15 21:50* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/01/15 21:50* | *1* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

## Client Sample ID: SB-12-1

**Lab Sample ID: 440-102923-7**

**Date Collected: 02/24/15 08:20**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 21:50 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 21:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/01/15 21:50* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* | | *03/01/15 21:50* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/01/15 21:50* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **37** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 19:51 | 1 |
| **ORO (C29-C40)** | **44** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 19:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *78* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 19:51* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.3** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:12 | 5 |

## Client Sample ID: SB-12-3

**Lab Sample ID: 440-102923-8**

**Date Collected: 02/24/15 08:25**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/01/15 22:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* | | *03/01/15 22:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/01/15 22:19* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 22:19* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0051 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| Naphthalene | ND | | 0.0051 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:19 | 1 |

## Client Sample ID: SB-12-3

**Lab Sample ID: 440-102923-8**

**Date Collected: 02/24/15 08:25**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:19 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 22:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/01/15 22:19* | *1* |
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* | | *03/01/15 22:19* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 22:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **17** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 21:11 | 1 |
| **ORO (C29-C40)** | **18** | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 21:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *68* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 21:11* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **4.2** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:14 | 5 |

## Client Sample ID: SB-14-1

**Lab Sample ID: 440-102923-9**

**Date Collected: 02/24/15 09:50**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/01/15 22:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *03/01/15 22:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/01/15 22:47* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 22:47* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 22:47 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 22:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/01/15 22:47* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *03/01/15 22:47* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/01/15 22:47* | *1* |

## Client Sample ID: SB-14-1

**Lab Sample ID: 440-102923-9**

**Date Collected: 02/24/15 09:50**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 17 | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 20:51 | 1 |
| ORO (C29-C40) | 16 | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 20:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *70* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 20:51* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.7 | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:16 | 5 |

## Client Sample ID: SB-14-3

**Lab Sample ID: 440-102923-10**

**Date Collected: 02/24/15 09:57**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/02/15 11:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* | | *03/02/15 11:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/02/15 11:52* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/02/15 11:52* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| Toluene | 0.0023 | | 0.0020 | | mg/Kg | | | 03/02/15 11:52 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/02/15 11:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/02/15 11:52* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* | | *03/02/15 11:52* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/02/15 11:52* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 12 | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 20:31 | 1 |
| ORO (C29-C40) | 13 | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 20:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *62* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 20:31* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 3.3 | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:18 | 5 |

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8260B/CA_LUFTMS | Volatile Organic Compounds by GC/MS | SW846 | TAL IRV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL IRV |
| 6010B | Metals (ICP) | SW846 | TAL IRV |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Client Sample ID: SB-9-1

**Lab Sample ID: 440-102923-1**

**Date Collected: 02/24/15 09:00**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.03 g | 10 mL | 239707 | 03/01/15 16:13 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.03 g | 10 mL | 239708 | 03/01/15 16:13 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.02 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.02 g | 1 mL | 240646 | 03/05/15 22:30 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 10 | 2.02 g | 50 mL | 240845 | 03/05/15 20:07 | TK | TAL IRV |

## Client Sample ID: SB-9-3

**Lab Sample ID: 440-102923-2**

**Date Collected: 02/24/15 09:05**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.04 g | 10 mL | 239707 | 03/01/15 19:30 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.04 g | 10 mL | 239708 | 03/01/15 19:30 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.06 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.06 g | 1 mL | 240646 | 03/05/15 22:10 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.00 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.00 g | 50 mL | 240845 | 03/05/15 19:42 | TK | TAL IRV |

## Client Sample ID: SB-10-1

**Lab Sample ID: 440-102923-3**

**Date Collected: 02/24/15 11:39**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 239707 | 03/01/15 19:58 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 239708 | 03/01/15 19:58 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.12 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.12 g | 1 mL | 240646 | 03/05/15 21:50 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.04 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.04 g | 50 mL | 240845 | 03/05/15 19:43 | TK | TAL IRV |

## Client Sample ID: SB-10-3

**Lab Sample ID: 440-102923-4**

**Date Collected: 02/24/15 11:46**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 239707 | 03/01/15 20:26 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 239708 | 03/01/15 20:26 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.14 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |

## Client Sample ID: SB-10-3

**Lab Sample ID: 440-102923-4**

**Date Collected: 02/24/15 11:46**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015B | | 1 | 15.14 g | 1 mL | 240645 | 03/05/15 18:31 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 240845 | 03/05/15 19:45 | TK | TAL IRV |

## Client Sample ID: SB-11-1

**Lab Sample ID: 440-102923-5**

**Date Collected: 02/24/15 10:30**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 4.97 g | 10 mL | 239707 | 03/01/15 20:54 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 4.97 g | 10 mL | 239708 | 03/01/15 20:54 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.15 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.15 g | 1 mL | 240645 | 03/05/15 18:52 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 240845 | 03/05/15 19:47 | TK | TAL IRV |

## Client Sample ID: SB-11-3

**Lab Sample ID: 440-102923-6**

**Date Collected: 02/24/15 10:36**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 239707 | 03/01/15 21:22 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 239708 | 03/01/15 21:22 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.02 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.02 g | 1 mL | 240645 | 03/05/15 19:31 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 240845 | 03/05/15 19:49 | TK | TAL IRV |

## Client Sample ID: SB-12-1

**Lab Sample ID: 440-102923-7**

**Date Collected: 02/24/15 08:20**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.03 g | 10 mL | 239707 | 03/01/15 21:50 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.03 g | 10 mL | 239708 | 03/01/15 21:50 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.04 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.04 g | 1 mL | 240645 | 03/05/15 19:51 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 240845 | 03/05/15 20:12 | TK | TAL IRV |

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

## Client Sample ID: SB-12-3

**Date Collected: 02/24/15 08:25**
**Date Received: 02/25/15 10:10**

## Lab Sample ID: 440-102923-8

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 4.95 g | 10 mL | 239707 | 03/01/15 22:19 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 4.95 g | 10 mL | 239708 | 03/01/15 22:19 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.02 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.02 g | 1 mL | 240646 | 03/05/15 21:11 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.04 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.04 g | 50 mL | 240845 | 03/05/15 20:14 | TK | TAL IRV |

## Client Sample ID: SB-14-1

**Date Collected: 02/24/15 09:50**
**Date Received: 02/25/15 10:10**

## Lab Sample ID: 440-102923-9

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 4.98 g | 10 mL | 239707 | 03/01/15 22:47 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 4.98 g | 10 mL | 239708 | 03/01/15 22:47 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.09 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.09 g | 1 mL | 240646 | 03/05/15 20:51 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 240845 | 03/05/15 20:16 | TK | TAL IRV |

## Client Sample ID: SB-14-3

**Date Collected: 02/24/15 09:57**
**Date Received: 02/25/15 10:10**

## Lab Sample ID: 440-102923-10

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.06 g | 10 mL | 239760 | 03/02/15 11:52 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.06 g | 10 mL | 239761 | 03/02/15 11:52 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.00 g | 1 mL | 240720 | 03/05/15 13:07 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.00 g | 1 mL | 240645 | 03/05/15 20:31 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 240845 | 03/05/15 20:18 | TK | TAL IRV |

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-239707/4**
**Matrix: Solid**
**Analysis Batch: 239707**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/01/15 14:28 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/01/15 14:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *03/01/15 14:28* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/01/15 14:28* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* | | *03/01/15 14:28* | *1* |

**Lab Sample ID: LCS 440-239707/5**
**Matrix: Solid**
**Analysis Batch: 239707**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0500 | 0.0458 | | mg/Kg | | 92 | 60 - 140 |
| Benzene | 0.0500 | 0.0485 | | mg/Kg | | 97 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0464 | | mg/Kg | | 93 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0514 | | mg/Kg | | 103 | 70 - 130 |
| m,p-Xylene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0483 | | mg/Kg | | 97 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0479 | | mg/Kg | | 96 | 55 - 135 |
| o-Xylene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 70 - 125 |
| Toluene | 0.0500 | 0.0484 | | mg/Kg | | 97 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *103* | | *79 - 123* |

**Lab Sample ID: 440-102923-1 MS**
**Matrix: Solid**
**Analysis Batch: 239707**

**Client Sample ID: SB-9-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0497 | 0.0509 | | mg/Kg | | 102 | 60 - 150 |
| Benzene | ND | | 0.0497 | 0.0521 | | mg/Kg | | 105 | 65 - 130 |
| Ethylbenzene | ND | | 0.0497 | 0.0519 | | mg/Kg | | 104 | 70 - 135 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0497 | 0.0579 | | mg/Kg | | 116 | 65 - 140 |
| m,p-Xylene | ND | | 0.0497 | 0.0551 | | mg/Kg | | 111 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0497 | 0.0523 | | mg/Kg | | 105 | 55 - 155 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-102923-1 MS**
**Matrix: Solid**
**Analysis Batch: 239707**

**Client Sample ID: SB-9-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0497 | 0.0510 | | mg/Kg | | 103 | 40 - 150 |
| o-Xylene | ND | | 0.0497 | 0.0538 | | mg/Kg | | 108 | 65 - 130 |
| Toluene | ND | | 0.0497 | 0.0541 | | mg/Kg | | 109 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *79 - 123* |

**Lab Sample ID: 440-102923-1 MSD**
**Matrix: Solid**
**Analysis Batch: 239707**

**Client Sample ID: SB-9-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0496 | 0.0458 | | mg/Kg | | 92 | 60 - 150 | 11 | 25 |
| Benzene | ND | | 0.0496 | 0.0483 | | mg/Kg | | 97 | 65 - 130 | 8 | 20 |
| Ethylbenzene | ND | | 0.0496 | 0.0479 | | mg/Kg | | 96 | 70 - 135 | 8 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0496 | 0.0534 | | mg/Kg | | 108 | 65 - 140 | 8 | 25 |
| m,p-Xylene | ND | | 0.0496 | 0.0510 | | mg/Kg | | 103 | 70 - 130 | 8 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0496 | 0.0479 | | mg/Kg | | 97 | 55 - 155 | 9 | 35 |
| Naphthalene | ND | | 0.0496 | 0.0463 | | mg/Kg | | 93 | 40 - 150 | 10 | 40 |
| o-Xylene | ND | | 0.0496 | 0.0490 | | mg/Kg | | 99 | 65 - 130 | 9 | 25 |
| Toluene | ND | | 0.0496 | 0.0509 | | mg/Kg | | 103 | 70 - 130 | 6 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *79 - 123* |

**Lab Sample ID: MB 440-239760/4**
**Matrix: Solid**
**Analysis Batch: 239760**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/02/15 08:52 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/02/15 08:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/02/15 08:52* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-239760/4**
**Matrix: Solid**
**Analysis Batch: 239760**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | 104 | | 60 - 120 | | 03/02/15 08:52 | 1 |
| Toluene-d8 (Surr) | 107 | | 79 - 123 | | 03/02/15 08:52 | 1 |

**Lab Sample ID: LCS 440-239760/5**
**Matrix: Solid**
**Analysis Batch: 239760**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0500 | 0.0529 | | mg/Kg | | 106 | 60 - 140 |
| Benzene | 0.0500 | 0.0540 | | mg/Kg | | 108 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0530 | | mg/Kg | | 106 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0600 | | mg/Kg | | 120 | 70 - 130 |
| m,p-Xylene | 0.0500 | 0.0567 | | mg/Kg | | 113 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0528 | | mg/Kg | | 106 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0553 | | mg/Kg | | 111 | 55 - 135 |
| o-Xylene | 0.0500 | 0.0565 | | mg/Kg | | 113 | 70 - 125 |
| Toluene | 0.0500 | 0.0551 | | mg/Kg | | 110 | 70 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 97 | | 79 - 120 |
| Dibromofluoromethane (Surr) | 104 | | 60 - 120 |
| Toluene-d8 (Surr) | 104 | | 79 - 123 |

**Lab Sample ID: 440-102438-A-3 MS**
**Matrix: Solid**
**Analysis Batch: 239760**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0498 | 0.0562 | | mg/Kg | | 113 | 60 - 150 |
| Benzene | ND | | 0.0498 | 0.0572 | | mg/Kg | | 115 | 65 - 130 |
| Ethylbenzene | ND | | 0.0498 | 0.0575 | | mg/Kg | | 115 | 70 - 135 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0498 | 0.0652 | | mg/Kg | | 131 | 65 - 140 |
| m,p-Xylene | ND | | 0.0498 | 0.0612 | | mg/Kg | | 123 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0498 | 0.0568 | | mg/Kg | | 114 | 55 - 155 |
| Naphthalene | ND | | 0.0498 | 0.0588 | | mg/Kg | | 118 | 40 - 150 |
| o-Xylene | ND | | 0.0498 | 0.0601 | | mg/Kg | | 121 | 65 - 130 |
| Toluene | ND | | 0.0498 | 0.0614 | | mg/Kg | | 120 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 99 | | 79 - 120 |
| Dibromofluoromethane (Surr) | 31 | X | 60 - 120 |
| Toluene-d8 (Surr) | 105 | | 79 - 123 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-102438-A-3 MSD**
**Matrix: Solid**
**Analysis Batch: 239760**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0498 | 0.0531 | | mg/Kg | | 107 | 60 - 150 | 6 | 25 |
| Benzene | ND | | 0.0498 | 0.0549 | | mg/Kg | | 110 | 65 - 130 | 4 | 20 |
| Ethylbenzene | ND | | 0.0498 | 0.0540 | | mg/Kg | | 108 | 70 - 135 | 6 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0498 | 0.0614 | | mg/Kg | | 123 | 65 - 140 | 6 | 25 |
| m,p-Xylene | ND | | 0.0498 | 0.0588 | | mg/Kg | | 118 | 70 - 130 | 4 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0498 | 0.0567 | | mg/Kg | | 114 | 55 - 155 | 0 | 35 |
| Naphthalene | ND | | 0.0498 | 0.0561 | | mg/Kg | | 113 | 40 - 150 | 5 | 40 |
| o-Xylene | ND | | 0.0498 | 0.0566 | | mg/Kg | | 114 | 65 - 130 | 6 | 25 |
| Toluene | ND | | 0.0498 | 0.0590 | | mg/Kg | | 115 | 70 - 130 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *23* | *X* | *60 - 120* |
| *Toluene-d8 (Surr)* | *103* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-239708/4**
**Matrix: Solid**
**Analysis Batch: 239708**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/01/15 14:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/01/15 14:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *03/01/15 14:28* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* | | *03/01/15 14:28* | *1* |

**Lab Sample ID: LCS 440-239708/6**
**Matrix: Solid**
**Analysis Batch: 239708**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 1.00 | 0.712 | | mg/Kg | | 71 | 60 - 135 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 440-102923-1 MS**
**Matrix: Solid**
**Analysis Batch: 239708**

**Client Sample ID: SB-9-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.43 | 3.67 | | mg/Kg | | 107 | 55 - 140 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *79 - 123* |

**Lab Sample ID: 440-102923-1 MSD**
**Matrix: Solid**
**Analysis Batch: 239708**

**Client Sample ID: SB-9-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.42 | 3.27 | | mg/Kg | | 95 | 55 - 140 | 12 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *79 - 123* |

**Lab Sample ID: MB 440-239761/4**
**Matrix: Solid**
**Analysis Batch: 239761**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/02/15 08:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/02/15 08:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/02/15 08:52* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/02/15 08:52* | *1* |

**Lab Sample ID: LCS 440-239761/6**
**Matrix: Solid**
**Analysis Batch: 239761**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 1.00 | 0.724 | | mg/Kg | | 72 | 60 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 440-102438-A-3 MS**
**Matrix: Solid**
**Analysis Batch: 239761**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.44 | 3.84 | | mg/Kg | | 112 | 55 - 140 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *31* | *X* | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *79 - 123* |

**Lab Sample ID: 440-102438-A-3 MSD**
**Matrix: Solid**
**Analysis Batch: 239761**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.44 | 3.58 | | mg/Kg | | 104 | 55 - 140 | 7 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *23* | *X* | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *103* | | *79 - 123* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 440-240720/1-A**
**Matrix: Solid**
**Analysis Batch: 240645**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 240720**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 17:52 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/05/15 13:07 | 03/05/15 17:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *85* | | *40 - 140* | *03/05/15 13:07* | *03/05/15 17:52* | *1* |

**Lab Sample ID: LCS 440-240720/2-A**
**Matrix: Solid**
**Analysis Batch: 240645**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 240720**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | | | 66.7 | 47.0 | | mg/Kg | | 71 | 45 - 115 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *77* | | *40 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-240081/1-A ^5**
**Matrix: Solid**
**Analysis Batch: 240845**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 240081**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 19:31 | 5 |

**Lab Sample ID: LCS 440-240081/2-A ^5**
**Matrix: Solid**
**Analysis Batch: 240845**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 240081**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 49.8 | 48.7 | | mg/Kg | | 98 | 80 - 120 | | |

**Lab Sample ID: 440-102923-1 MS**
**Matrix: Solid**
**Analysis Batch: 240845**

**Client Sample ID: SB-9-1**
**Prep Type: Total/NA**
**Prep Batch: 240081**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 50.0 | 47.6 | | mg/Kg | | 90 | 75 - 125 | | |

**Lab Sample ID: 440-102923-1 MSD**
**Matrix: Solid**
**Analysis Batch: 240845**

**Client Sample ID: SB-9-1**
**Prep Type: Total/NA**
**Prep Batch: 240081**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 49.3 | 45.7 | | mg/Kg | | 88 | 75 - 125 | 4 | 20 |

## GC/MS VOA

### Analysis Batch: 239707

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-1 | SB-9-1 | Total/NA | Solid | 8260B | |
| 440-102923-1 MS | SB-9-1 | Total/NA | Solid | 8260B | |
| 440-102923-1 MSD | SB-9-1 | Total/NA | Solid | 8260B | |
| 440-102923-2 | SB-9-3 | Total/NA | Solid | 8260B | |
| 440-102923-3 | SB-10-1 | Total/NA | Solid | 8260B | |
| 440-102923-4 | SB-10-3 | Total/NA | Solid | 8260B | |
| 440-102923-5 | SB-11-1 | Total/NA | Solid | 8260B | |
| 440-102923-6 | SB-11-3 | Total/NA | Solid | 8260B | |
| 440-102923-7 | SB-12-1 | Total/NA | Solid | 8260B | |
| 440-102923-8 | SB-12-3 | Total/NA | Solid | 8260B | |
| 440-102923-9 | SB-14-1 | Total/NA | Solid | 8260B | |
| LCS 440-239707/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-239707/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 239708

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-1 | SB-9-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-1 MS | SB-9-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-1 MSD | SB-9-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-2 | SB-9-3 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-3 | SB-10-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-4 | SB-10-3 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-5 | SB-11-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-6 | SB-11-3 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-7 | SB-12-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-8 | SB-12-3 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-9 | SB-14-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCS 440-239708/6 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-239708/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

### Analysis Batch: 239760

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102438-A-3 MS | Matrix Spike | Total/NA | Solid | 8260B | |
| 440-102438-A-3 MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B | |
| 440-102923-10 | SB-14-3 | Total/NA | Solid | 8260B | |
| LCS 440-239760/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-239760/4 | Method Blank | Total/NA | Solid | 8260B | |

## GC/MS VOA (Continued)

### Analysis Batch: 239761

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102438-A-3 MS | Matrix Spike | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102438-A-3 MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102923-10 | SB-14-3 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCS 440-239761/6 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-239761/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

## GC Semi VOA

### Analysis Batch: 240645

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-4 | SB-10-3 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-5 | SB-11-1 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-6 | SB-11-3 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-7 | SB-12-1 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-10 | SB-14-3 | Total/NA | Solid | 8015B | 240720 |
| LCS 440-240720/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 240720 |
| MB 440-240720/1-A | Method Blank | Total/NA | Solid | 8015B | 240720 |

### Analysis Batch: 240646

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-1 | SB-9-1 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-2 | SB-9-3 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-3 | SB-10-1 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-8 | SB-12-3 | Total/NA | Solid | 8015B | 240720 |
| 440-102923-9 | SB-14-1 | Total/NA | Solid | 8015B | 240720 |

### Prep Batch: 240720

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-1 | SB-9-1 | Total/NA | Solid | 3546 | |
| 440-102923-2 | SB-9-3 | Total/NA | Solid | 3546 | |
| 440-102923-3 | SB-10-1 | Total/NA | Solid | 3546 | |
| 440-102923-4 | SB-10-3 | Total/NA | Solid | 3546 | |
| 440-102923-5 | SB-11-1 | Total/NA | Solid | 3546 | |
| 440-102923-6 | SB-11-3 | Total/NA | Solid | 3546 | |
| 440-102923-7 | SB-12-1 | Total/NA | Solid | 3546 | |
| 440-102923-8 | SB-12-3 | Total/NA | Solid | 3546 | |
| 440-102923-9 | SB-14-1 | Total/NA | Solid | 3546 | |
| 440-102923-10 | SB-14-3 | Total/NA | Solid | 3546 | |
| LCS 440-240720/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 440-240720/1-A | Method Blank | Total/NA | Solid | 3546 | |

## Metals

### Prep Batch: 240081

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-1 | SB-9-1 | Total/NA | Solid | 3050B | |

## Metals (Continued)

### Prep Batch: 240081 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-1 MS | SB-9-1 | Total/NA | Solid | 3050B | |
| 440-102923-1 MSD | SB-9-1 | Total/NA | Solid | 3050B | |
| 440-102923-2 | SB-9-3 | Total/NA | Solid | 3050B | |
| 440-102923-3 | SB-10-1 | Total/NA | Solid | 3050B | |
| 440-102923-4 | SB-10-3 | Total/NA | Solid | 3050B | |
| 440-102923-5 | SB-11-1 | Total/NA | Solid | 3050B | |
| 440-102923-6 | SB-11-3 | Total/NA | Solid | 3050B | |
| 440-102923-7 | SB-12-1 | Total/NA | Solid | 3050B | |
| 440-102923-8 | SB-12-3 | Total/NA | Solid | 3050B | |
| 440-102923-9 | SB-14-1 | Total/NA | Solid | 3050B | |
| 440-102923-10 | SB-14-3 | Total/NA | Solid | 3050B | |
| LCS 440-240081/2-A ^5 | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 440-240081/1-A ^5 | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 240845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-1 | SB-9-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-1 MS | SB-9-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-1 MSD | SB-9-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-2 | SB-9-3 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-3 | SB-10-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-4 | SB-10-3 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-5 | SB-11-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-6 | SB-11-3 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-7 | SB-12-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-8 | SB-12-3 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-9 | SB-14-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102923-10 | SB-14-3 | Total/NA | Solid | 6010B | 240081 |
| LCS 440-240081/2-A ^5 | Lab Control Sample | Total/NA | Solid | 6010B | 240081 |
| MB 440-240081/1-A ^5 | Method Blank | Total/NA | Solid | 6010B | 240081 |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102923-1

## Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alaska | State Program | 10 | CA01531 | 06-30-15 |
| Arizona | State Program | 9 | AZ0671 | 10-13-15 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-15 |
| New Mexico | State Program | 6 | N/A | 01-29-15 * |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-15 * |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 06-06-15 |

* Certification renewal pending - certification considered valid.

# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**
- ☐ CALSCIENCE ( )
- ☐ SPL ( )
- ☐ XENCO ( )
- ☑ TEST AMERICA ( )
- ☐ OTHER ( )

**Please Check Appropriate Box:**
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

**Print Bill To Contact Name:** Katherine Ward 240503-15.04-xxxx

**PO #**

**INCIDENT # (ENV SERVICES)** 9 8 9 9 5 7 4 5

**SAP #** 1 3 5 6 8 5

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2-24-15

PAGE: 1 of 1

| | |
|---|---|
| SAMPLING COMPANY | Conestoga-Rovers & Associates |
| LOG CODE | CRAW |
| SITE ADDRESS: Street and City | 6039 College Avenue, Oakland |
| State | CA |
| GLOBAL ID NO | T10000005056 |
| ADDRESS | 5900 Hollis Street, Suite A, Emeryville, CA 94608 |
| EDF DELIVERABLE TO (Name, Company, Office Location) | Anni Kreml, CRA, Emeryville |
| PHONE NO | 510-420-3343 |
| E-MAIL | shell.em.edf@craworld.com |
| CONSULTANT PROJECT NO | 240503-15.04-xxxx |
| PROJECT CONTACT (Hardcopy or PDF Report to) | Katherine Ward |
| SAMPLER NAME(S) (Print) | Mike Lombard |
| LAB USE ONLY | |
| TELEPHONE | 510-420-3367 |
| FAX | 510-420-9170 |
| E-MAIL | kward@craworld.com |

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell Lab Billing@craworld.com

Encore samples have a hold time of 48 hours

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

TEMPERATURE ON RECEIPT C°: 4.3/3.8 (CS) 3.9/3.4 IR-64

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH-GRO, (8260B) | TPHd, (8015M) | TPHg (8260B) | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: ____ (8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SB-9-1 | 2-24-15 | 0900 | SO | | | | | | 2 | | x | x | | x | | | | | x | x | x | |
| | SB-9-3 | 2-24-15 | 0905 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-10-1 | 2-24-15 | 1139 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-10-3 | 2-24-15 | 1146 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-11-1 | 2-24-15 | 1030 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-11-3 | 2-24-15 | 1036 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-12-1 | 2-24-15 | 0820 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-12-3 | 2-24-15 | 0825 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-14-1 | 2-24-15 | 0950 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-14-3 | 2-24-15 | 0957 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |

| Relinquished by (Signature) | Received by (Signature) | Date | Time |
|---|---|---|---|
| [signature] | [signature] | 2/24/15 | 242PM |
| [signature] | [signature] | 2/24/15 | 350PM |
| [signature] 2-24-15 1600 | [signature] | 2/25/15 | 10:10 |

Fed: 6329 1552 4239

05/2/06 Revision 5.8c



3/6/2015

# Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-102923-1

**Login Number: 102923**

**List Number: 1**

**Creator: Soderblom, Tim**

**List Source: TestAmerica Irvine**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-102929-1
Client Project/Site: 6039 College Ave., Oakland

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Ms. Katherine Ward

Heather Clark

*Authorized for release by:*
*3/10/2015 1:46:54 PM*

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102929-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 440-102929-1 | SB-13-1 | Solid | 02/23/15 14:55 | 02/25/15 10:10 |
| 440-102929-2 | SB-13-2 | Solid | 02/23/15 15:05 | 02/25/15 10:10 |
| 440-102929-3 | SB-13-3 | Solid | 02/23/15 15:15 | 02/25/15 10:10 |

## Job ID: 440-102929-1

**Laboratory: TestAmerica Irvine**

**Narrative**

**Job Narrative**
**440-102929-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 2/25/2015 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.4º C and 3.8º C.

**GC/MS VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Client Sample ID: SB-13-1

**Lab Sample ID: 440-102929-1**

**Date Collected: 02/23/15 14:55**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.098 | | mg/Kg | | | 02/28/15 20:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 120* | | *02/28/15 20:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *108* | | *79 - 120* | | *02/28/15 20:47* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *02/28/15 20:47* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| m,p-Xylene | ND | | 0.0039 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 20:47 | 1 |
| Xylenes, Total | ND | | 0.0039 | | mg/Kg | | | 02/28/15 20:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *79 - 120* | | *02/28/15 20:47* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 120* | | *02/28/15 20:47* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *02/28/15 20:47* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **55** | | 5.0 | | mg/Kg | | 03/06/15 11:48 | 03/06/15 19:45 | 1 |
| **ORO (C29-C40)** | **50** | | 5.0 | | mg/Kg | | 03/06/15 11:48 | 03/06/15 19:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *87* | | *40 - 140* | *03/06/15 11:48* | *03/06/15 19:45* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.0** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:20 | 5 |

## Client Sample ID: SB-13-2

**Lab Sample ID: 440-102929-2**

**Date Collected: 02/23/15 15:05**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 02/28/15 21:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *02/28/15 21:15* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *02/28/15 21:15* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *79 - 123* | | *02/28/15 21:15* | *1* |

## Client Sample ID: SB-13-2

**Lab Sample ID: 440-102929-2**

**Date Collected: 02/23/15 15:05**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:15 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 02/28/15 21:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *02/28/15 21:15* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *02/28/15 21:15* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *79 - 123* | | *02/28/15 21:15* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **33** | | 5.0 | | mg/Kg | | 03/06/15 11:48 | 03/06/15 20:25 | 1 |
| **ORO (C29-C40)** | **24** | | 5.0 | | mg/Kg | | 03/06/15 11:48 | 03/06/15 20:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *82* | | *40 - 140* | *03/06/15 11:48* | *03/06/15 20:25* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **9.8** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:22 | 5 |

## Client Sample ID: SB-13-3

**Lab Sample ID: 440-102929-3**

**Date Collected: 02/23/15 15:15**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 02/28/15 21:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *02/28/15 21:43* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *02/28/15 21:43* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *02/28/15 21:43* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:43 | 1 |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102929-1

**Client Sample ID: SB-13-3**
**Date Collected: 02/23/15 15:15**
**Date Received: 02/25/15 10:10**

**Lab Sample ID: 440-102929-3**
**Matrix: Solid**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 21:43 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 02/28/15 21:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *02/28/15 21:43* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *02/28/15 21:43* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *02/28/15 21:43* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **7.3** | | 4.9 | | mg/Kg | | 03/06/15 11:48 | 03/06/15 20:44 | 1 |
| **ORO (C29-C40)** | **5.2** | | 4.9 | | mg/Kg | | 03/06/15 11:48 | 03/06/15 20:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *76* | | *40 - 140* | *03/06/15 11:48* | *03/06/15 20:44* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.1** | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 20:24 | 5 |

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102929-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8260B/CA_LUFTMS | Volatile Organic Compounds by GC/MS | SW846 | TAL IRV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL IRV |
| 6010B | Metals (ICP) | SW846 | TAL IRV |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102929-1

## Client Sample ID: SB-13-1

**Lab Sample ID: 440-102929-1**

**Date Collected: 02/23/15 14:55**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.11 g | 10 mL | 239599 | 02/28/15 20:47 | AA | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.11 g | 10 mL | 239600 | 02/28/15 20:47 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.03 g | 1 mL | 240975 | 03/06/15 11:48 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.03 g | 1 mL | 240995 | 03/06/15 19:45 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 240845 | 03/05/15 20:20 | TK | TAL IRV |

## Client Sample ID: SB-13-2

**Lab Sample ID: 440-102929-2**

**Date Collected: 02/23/15 15:05**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 239599 | 02/28/15 21:15 | AA | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 239600 | 02/28/15 21:15 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.13 g | 1 mL | 240975 | 03/06/15 11:48 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.13 g | 1 mL | 240995 | 03/06/15 20:25 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 240845 | 03/05/15 20:22 | TK | TAL IRV |

## Client Sample ID: SB-13-3

**Lab Sample ID: 440-102929-3**

**Date Collected: 02/23/15 15:15**

**Matrix: Solid**

**Date Received: 02/25/15 10:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.03 g | 10 mL | 239599 | 02/28/15 21:43 | AA | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.03 g | 10 mL | 239600 | 02/28/15 21:43 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.23 g | 1 mL | 240975 | 03/06/15 11:48 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.23 g | 1 mL | 240994 | 03/06/15 20:44 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.00 g | 50 mL | 240081 | 03/03/15 09:15 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.00 g | 50 mL | 240845 | 03/05/15 20:24 | TK | TAL IRV |

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-239599/4**
**Matrix: Solid**
**Analysis Batch: 239599**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 02/28/15 11:20 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 02/28/15 11:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *02/28/15 11:20* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* | | *02/28/15 11:20* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *02/28/15 11:20* | *1* |

**Lab Sample ID: LCS 440-239599/5**
**Matrix: Solid**
**Analysis Batch: 239599**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0500 | 0.0461 | | mg/Kg | | 92 | 60 - 140 |
| Benzene | 0.0500 | 0.0521 | | mg/Kg | | 104 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0517 | | mg/Kg | | 103 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0542 | | mg/Kg | | 108 | 70 - 130 |
| m,p-Xylene | 0.0500 | 0.0557 | | mg/Kg | | 111 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0505 | | mg/Kg | | 101 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0525 | | mg/Kg | | 105 | 55 - 135 |
| o-Xylene | 0.0500 | 0.0547 | | mg/Kg | | 109 | 70 - 125 |
| Toluene | 0.0500 | 0.0542 | | mg/Kg | | 108 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: 440-102987-A-1 MS**
**Matrix: Solid**
**Analysis Batch: 239599**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0492 | 0.0454 | | mg/Kg | | 92 | 60 - 150 |
| Benzene | ND | | 0.0492 | 0.0490 | | mg/Kg | | 100 | 65 - 130 |
| Ethylbenzene | ND | | 0.0492 | 0.0489 | | mg/Kg | | 99 | 70 - 135 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0492 | 0.0566 | | mg/Kg | | 115 | 65 - 140 |
| m,p-Xylene | ND | | 0.0492 | 0.0530 | | mg/Kg | | 108 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0492 | 0.0500 | | mg/Kg | | 102 | 55 - 155 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-102987-A-1 MS**
**Matrix: Solid**
**Analysis Batch: 239599**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0492 | 0.0549 | | mg/Kg | | 111 | 40 - 150 |
| o-Xylene | ND | | 0.0492 | 0.0516 | | mg/Kg | | 105 | 65 - 130 |
| Toluene | ND | | 0.0492 | 0.0509 | | mg/Kg | | 103 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: 440-102987-A-1 MSD**
**Matrix: Solid**
**Analysis Batch: 239599**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0491 | 0.0476 | | mg/Kg | | 97 | 60 - 150 | 5 | 25 |
| Benzene | ND | | 0.0491 | 0.0510 | | mg/Kg | | 104 | 65 - 130 | 4 | 20 |
| Ethylbenzene | ND | | 0.0491 | 0.0501 | | mg/Kg | | 102 | 70 - 135 | 2 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0491 | 0.0597 | | mg/Kg | | 122 | 65 - 140 | 5 | 25 |
| m,p-Xylene | ND | | 0.0491 | 0.0550 | | mg/Kg | | 112 | 70 - 130 | 4 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0491 | 0.0530 | | mg/Kg | | 108 | 55 - 155 | 6 | 35 |
| Naphthalene | ND | | 0.0491 | 0.0574 | | mg/Kg | | 117 | 40 - 150 | 5 | 40 |
| o-Xylene | ND | | 0.0491 | 0.0533 | | mg/Kg | | 108 | 65 - 130 | 3 | 25 |
| Toluene | ND | | 0.0491 | 0.0527 | | mg/Kg | | 107 | 70 - 130 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-239600/4**
**Matrix: Solid**
**Analysis Batch: 239600**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 02/28/15 11:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* | | *02/28/15 11:20* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *02/28/15 11:20* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *02/28/15 11:20* | *1* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-239600/28**
**Matrix: Solid**
**Analysis Batch: 239600**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 1.00 | 0.699 | | mg/Kg | | 70 | 60 - 135 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* |

**Lab Sample ID: 440-102987-A-1 MS**
**Matrix: Solid**
**Analysis Batch: 239600**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.40 | 3.36 | | mg/Kg | | 99 | 55 - 140 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: 440-102987-A-1 MSD**
**Matrix: Solid**
**Analysis Batch: 239600**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.39 | 3.54 | | mg/Kg | | 105 | 55 - 140 | 5 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: LCS 440-240975/2-A**
**Matrix: Solid**
**Analysis Batch: 240994**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 240975**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | | | 66.7 | 63.2 | | mg/Kg | | 95 | 45 - 115 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *88* | | *40 - 140* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 440-103503-A-1-A MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 240994** — **Prep Batch: 240975**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 7.1 | | 66.5 | 64.8 | | mg/Kg | | 87 | 40 - 120 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *86* | | *40 - 140* |

**Lab Sample ID: 440-103503-A-1-B MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 240994** — **Prep Batch: 240975**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 7.1 | | 66.6 | 61.7 | | mg/Kg | | 82 | 40 - 120 | 5 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *85* | | *40 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-240081/1-A ^5** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 240845** — **Prep Batch: 240081**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 2.0 | | mg/Kg | | 03/03/15 09:15 | 03/05/15 19:31 | 5 |

**Lab Sample ID: LCS 440-240081/2-A ^5** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 240845** — **Prep Batch: 240081**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Lead | 49.8 | 48.7 | | mg/Kg | | 98 | 80 - 120 |

**Lab Sample ID: 440-102923-A-1-B MS ^10** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 240845** — **Prep Batch: 240081**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 50.0 | 47.6 | | mg/Kg | | 90 | 75 - 125 |

**Lab Sample ID: 440-102923-A-1-C MSD ^10** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 240845** — **Prep Batch: 240081**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 49.3 | 45.7 | | mg/Kg | | 88 | 75 - 125 | 4 | 20 |

## GC/MS VOA

### Analysis Batch: 239599

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102929-1 | SB-13-1 | Total/NA | Solid | 8260B | |
| 440-102929-2 | SB-13-2 | Total/NA | Solid | 8260B | |
| 440-102929-3 | SB-13-3 | Total/NA | Solid | 8260B | |
| 440-102987-A-1 MS | Matrix Spike | Total/NA | Solid | 8260B | |
| 440-102987-A-1 MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B | |
| LCS 440-239599/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-239599/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 239600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102929-1 | SB-13-1 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102929-2 | SB-13-2 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102929-3 | SB-13-3 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102987-A-1 MS | Matrix Spike | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-102987-A-1 MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCS 440-239600/28 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-239600/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

## GC Semi VOA

### Prep Batch: 240975

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102929-1 | SB-13-1 | Total/NA | Solid | 3546 | |
| 440-102929-2 | SB-13-2 | Total/NA | Solid | 3546 | |
| 440-102929-3 | SB-13-3 | Total/NA | Solid | 3546 | |
| 440-103503-A-1-A MS | Matrix Spike | Total/NA | Solid | 3546 | |
| 440-103503-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 3546 | |
| LCS 440-240975/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |

### Analysis Batch: 240994

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102929-3 | SB-13-3 | Total/NA | Solid | 8015B | 240975 |
| 440-103503-A-1-A MS | Matrix Spike | Total/NA | Solid | 8015B | 240975 |
| 440-103503-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B | 240975 |
| LCS 440-240975/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 240975 |

### Analysis Batch: 240995

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102929-1 | SB-13-1 | Total/NA | Solid | 8015B | 240975 |
| 440-102929-2 | SB-13-2 | Total/NA | Solid | 8015B | 240975 |

## Metals

### Prep Batch: 240081

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-A-1-B MS ^10 | Matrix Spike | Total/NA | Solid | 3050B | |
| 440-102923-A-1-C MSD ^10 | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| 440-102929-1 | SB-13-1 | Total/NA | Solid | 3050B | |
| 440-102929-2 | SB-13-2 | Total/NA | Solid | 3050B | |
| 440-102929-3 | SB-13-3 | Total/NA | Solid | 3050B | |
| LCS 440-240081/2-A ^5 | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 440-240081/1-A ^5 | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 240845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-102923-A-1-B MS ^10 | Matrix Spike | Total/NA | Solid | 6010B | 240081 |
| 440-102923-A-1-C MSD ^10 | Matrix Spike Duplicate | Total/NA | Solid | 6010B | 240081 |
| 440-102929-1 | SB-13-1 | Total/NA | Solid | 6010B | 240081 |
| 440-102929-2 | SB-13-2 | Total/NA | Solid | 6010B | 240081 |
| 440-102929-3 | SB-13-3 | Total/NA | Solid | 6010B | 240081 |
| LCS 440-240081/2-A ^5 | Lab Control Sample | Total/NA | Solid | 6010B | 240081 |
| MB 440-240081/1-A ^5 | Method Blank | Total/NA | Solid | 6010B | 240081 |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-102929-1

## Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alaska | State Program | 10 | CA01531 | 06-30-15 |
| Arizona | State Program | 9 | AZ0671 | 10-13-15 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-15 |
| New Mexico | State Program | 6 | N/A | 01-29-15 * |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-15 * |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 06-06-15 |

* Certification renewal pending - certification considered valid.

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE ( )
- ☐ SPL ( )
- ☐ XENCO ( )
- ☑ TEST AMERICA ( )
- ☐ OTHER ( )

**Please Check Appropriate Box:**
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

**Print Bill To Contact Name:** Katherine Ward 240503-15.04-xxxx

PO #

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 4 5

SAP #: 1 3 5 6 8 5

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2-23-15

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS Street and City: 6039 College Avenue, Oakland

State: CA

GLOBAL ID NO.: T10000005056

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shell em edf@craworld.com

CONSULTANT PROJECT NO: 240503-15.04-xxxx

PROJECT CONTACT (Hardcopy or PDF Report to): Katherine Ward

TELEPHONE: 510-420-3367

FAX: 510-420-9170

E-MAIL: kward@craworld.com

SAMPLER NAME(S) (Print): Mike Lombard

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell Lab.Billing@craworld.com

Encore samples have a hold time of 48 hours

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C°: 43/38 (25) 39/34 IR-64

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, (8260B) | TPHd, (8015M) | TPHg (8260B) | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: (8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SB-13-1 | 2-23-15 | 1455 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-13-2 | 2-23-15 | 1505 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |
| | SB-13-3 | 2-23-15 | 1515 | SO | | | | | | 2 | | X | X | | X | | | | | X | X | X | |

| Relinquished by (Signature) | Received by (Signature) | Date | Time |
|---|---|---|---|
| [signature] | [signature] | 2/24/15 | 242 PM |
| [signature] | [signature] | 2/24/15 | 350PM |
| [signature] 2-24-15 1600 | [signature] | 2/25/15 | 10:10 |

05/2/08 Revision

440-102929 Chain of Custody

# Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-102929-1

**Login Number: 102929**

**List Source: TestAmerica Irvine**

**List Number: 1**

**Creator: Soderblom, Tim**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-103093-1
Client Project/Site: 6039 College Ave., Oakland
Revision: 1

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Ms. Katherine Ward

Heather Clark

*Authorized for release by:*
*4/28/2015 11:36:00 AM*

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 440-103093-1 | SB-9-5 | Solid | 02/25/15 07:53 | 02/28/15 11:00 |
| 440-103093-2 | SB-9-10 | Solid | 02/25/15 08:07 | 02/28/15 11:00 |
| 440-103093-3 | SB-9-14.5 | Solid | 02/25/15 08:14 | 02/28/15 11:00 |
| 440-103093-4 | SB-9-19.5 | Solid | 02/25/15 08:25 | 02/28/15 11:00 |
| 440-103093-5 | SB-9-24.5 | Solid | 02/25/15 09:17 | 02/28/15 11:00 |
| 440-103093-6 | SB-9-27.5 | Solid | 02/25/15 09:53 | 02/28/15 11:00 |
| 440-103093-7 | SB-9-30 | Solid | 02/25/15 11:20 | 02/28/15 11:00 |
| 440-103093-8 | SB-9-34.5 | Solid | 02/25/15 11:25 | 02/28/15 11:00 |
| 440-103093-9 | SB-9-39.5 | Solid | 02/25/15 11:55 | 02/28/15 11:00 |
| 440-103093-10 | SB-9-44.5 | Solid | 02/25/15 12:25 | 02/28/15 11:00 |
| 440-103093-11 | SB-12-5 | Solid | 02/25/15 13:55 | 02/28/15 11:00 |
| 440-103093-12 | SB-12-10 | Solid | 02/25/15 14:04 | 02/28/15 11:00 |
| 440-103093-13 | SB-12-15 | Solid | 02/25/15 14:15 | 02/28/15 11:00 |
| 440-103093-14 | SB-12-20 | Solid | 02/25/15 14:30 | 02/28/15 11:00 |
| 440-103093-15 | SB-12-25 | Solid | 02/25/15 15:00 | 02/28/15 11:00 |
| 440-103093-16 | SB-12-30 | Solid | 02/25/15 15:50 | 02/28/15 11:00 |
| 440-103093-17 | SB-12-34.5 | Solid | 02/25/15 15:55 | 02/28/15 11:00 |
| 440-103093-18 | SB-12-26.5 | Water | 02/25/15 15:15 | 02/28/15 11:00 |
| 440-103093-19 | SB-9-26.5 | Water | 02/25/15 11:00 | 02/28/15 11:00 |
| 440-103093-20 | SB-14-26 | Water | 02/26/15 09:10 | 02/28/15 11:00 |
| 440-103093-21 | SB-14-5 | Solid | 02/26/15 09:35 | 02/28/15 11:00 |
| 440-103093-22 | SB-14-10 | Solid | 02/26/15 09:40 | 02/28/15 11:00 |
| 440-103093-23 | SB-14-15 | Solid | 02/26/15 09:45 | 02/28/15 11:00 |
| 440-103093-24 | SB-14-20 | Solid | 02/26/15 07:55 | 02/28/15 11:00 |
| 440-103093-25 | SB-14-25 | Solid | 02/26/15 08:25 | 02/28/15 11:00 |
| 440-103093-26 | SB-14-30 | Solid | 02/26/15 09:45 | 02/28/15 11:00 |
| 440-103093-27 | SB-14-34.5 | Solid | 02/26/15 09:50 | 02/28/15 11:00 |
| 440-103093-28 | SB-11-5 | Solid | 02/26/15 10:30 | 02/28/15 11:00 |
| 440-103093-29 | SB-11-10 | Solid | 02/26/15 10:36 | 02/28/15 11:00 |
| 440-103093-30 | SB-11-15 | Solid | 02/26/15 10:43 | 02/28/15 11:00 |
| 440-103093-31 | SB-11-20 | Solid | 02/26/15 10:52 | 02/28/15 11:00 |
| 440-103093-32 | SB-11-25 | Solid | 02/26/15 11:20 | 02/28/15 11:00 |
| 440-103093-33 | SB-11-30 | Solid | 02/26/15 15:35 | 02/28/15 11:00 |
| 440-103093-34 | SB-11-34.5 | Solid | 02/26/15 15:50 | 02/28/15 11:00 |
| 440-103093-35 | SB-11-35 | Water | 02/26/15 16:50 | 02/28/15 11:00 |

## Job ID: 440-103093-1

### Laboratory: TestAmerica Irvine

**Narrative**

**Job Narrative**
**440-103093-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 2/28/2015 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3º C and 3.7º C.

**GC/MS VOA**
Method(s) 8260B: The following sample(s) was diluted due to the abundance of non-target analytes: SB-11-15 (440-103093-30), SB-11-30 (440-103093-33). Elevated reporting limits (RLs) are provided.

Method(s) 8260B/CA_LUFTMS: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 240032 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected. The individual recoveries met acceptance criteria.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: SB-11-35 (440-103093-35). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
Method(s) 8015B: Hydrocarbon result partly due to individual peak in quantitation range. SB-12-10 (440-103093-12), SB-12-25 (440-103093-15), SB-9-27.5 (440-103093-6), SB-9-30 (440-103093-7), SB-9-34.5 (440-103093-8), SB-9-39.5 (440-103093-9), SB-9-44.5 (440-103093-10)

Method(s) 8015B: The MS/MSD was diluted due to the nature of the sample matrix : (LCS 440-241486/2-A). As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported. The batch is accepted based on the recovery of the LCS.

Method(s) 8015B: The following sample(s) required a dilution due to the nature of the sample matrix: SB-9-19.5 (440-103093-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: Hydrocarbon result partly due to individual peak in quantitation range. SB-11-10 (440-103093-29), SB-11-15 (440-103093-30), SB-11-20 (440-103093-31), SB-11-30 (440-103093-33), SB-11-5 (440-103093-28), SB-14-25 (440-103093-25), SB-14-30 (440-103093-26).

Method(s) 8015B: The MS/MSD were diluted due to abundance of target analytes: (LCS 440-241789/2-A). As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported. The batch was accepted based on the LCS recovery.

Method(s) 8015B: The following sample(s) required dilutions due to the nature of the sample matrix: SB-14-15 (440-103093-23). Because of these dilutions, the surrogate spike concentration in the samples were reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

Method: 3546-8015b DIESEL SOILS
Batch number: 241486

## Job ID: 440-103093-1 (Continued)

**Laboratory: TestAmerica Irvine (Continued)**

Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix: SB-11-10 (440-103093-29), SB-11-15 (440-103093-30), SB-11-25 (440-103093-32), SB-11-34.5 (440-103093-34), SB-11-5 (440-103093-28), SB-14-15 (440-103093-23), SB-14-20 (440-103093-24), SB-14-25 (440-103093-25), SB-14-30 (440-103093-26). Elevated reporting limits (RLs) are provided.

BATCH# 241789
METHOD 3546 - 8015B - DIESEL - SOILS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Client Sample ID: SB-9-5

**Lab Sample ID: 440-103093-1**

**Date Collected: 02/25/15 07:53**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 11:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 11:51* | *1* |
| *4-Bromofluorobenzene (Surr)* | *110* | | *79 - 120* | | *03/03/15 11:51* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 11:51* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 11:51 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 11:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *79 - 120* | | *03/03/15 11:51* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 11:51* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 11:51* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **12** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 23:06 | 1 |
| **ORO (C29-C40)** | **18** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 23:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *77* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 23:06* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:35 | 5 |

## Client Sample ID: SB-9-10

**Lab Sample ID: 440-103093-2**

**Date Collected: 02/25/15 08:07**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.098 | | mg/Kg | | | 03/03/15 12:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 12:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* | | *03/03/15 12:19* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 12:19* | *1* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

## Client Sample ID: SB-9-10

**Lab Sample ID: 440-103093-2**

**Date Collected: 02/25/15 08:07**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| m,p-Xylene | ND | | 0.0039 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:19 | 1 |
| Xylenes, Total | ND | | 0.0039 | | mg/Kg | | | 03/03/15 12:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* | | *03/03/15 12:19* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 12:19* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 12:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **5.5** | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 16:25 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 16:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *81* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 16:25* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **4.9** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:38 | 5 |

## Client Sample ID: SB-9-14.5

**Lab Sample ID: 440-103093-3**

**Date Collected: 02/25/15 08:14**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **650** | | 40 | | mg/Kg | | 03/03/15 15:52 | 03/06/15 16:57 | 400 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *55 - 140* | *03/03/15 15:52* | *03/06/15 16:57* | *400* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *65 - 140* | *03/03/15 15:52* | *03/06/15 16:57* | *400* |
| *Toluene-d8 (Surr)* | *111* | | *60 - 140* | *03/03/15 15:52* | *03/06/15 16:57* | *400* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0042 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| **Benzene** | **0.15** | | 0.0042 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| **Ethylbenzene** | **0.14** | | 0.0042 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0042 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| **m,p-Xylene** | **0.51** | | 0.0084 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.010 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| **Naphthalene** | **0.041** | | 0.010 | | mg/Kg | | | 03/03/15 12:47 | 1 |

## Client Sample ID: SB-9-14.5

**Lab Sample ID: 440-103093-3**

**Date Collected: 02/25/15 08:14**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.025 | | 0.0042 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| Toluene | 0.0069 | | 0.0042 | | mg/Kg | | | 03/03/15 12:47 | 1 |
| Xylenes, Total | 0.54 | | 0.0084 | | mg/Kg | | | 03/03/15 12:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* | | *03/03/15 12:47* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 12:47* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 12:47* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 440 | | 9.8 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 16:48 | 1 |
| ORO (C29-C40) | 160 | | 9.8 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 16:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *110* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 16:48* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.3 | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:40 | 5 |

## Client Sample ID: SB-9-19.5

**Lab Sample ID: 440-103093-4**

**Date Collected: 02/25/15 08:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 360 | | 40 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 12:40 | 400 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *94* | | *55 - 140* | *03/03/15 15:52* | *03/04/15 12:40* | *400* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *65 - 140* | *03/03/15 15:52* | *03/04/15 12:40* | *400* |
| *Toluene-d8 (Surr)* | *103* | | *60 - 140* | *03/03/15 15:52* | *03/04/15 12:40* | *400* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0079 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| Benzene | 0.043 | | 0.0079 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| Ethylbenzene | 0.0083 | | 0.0079 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0079 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| m,p-Xylene | 0.086 | | 0.016 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.020 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| Naphthalene | ND | | 0.020 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| o-Xylene | 0.017 | | 0.0079 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| Toluene | 0.018 | | 0.0079 | | mg/Kg | | | 03/03/15 13:16 | 1 |
| Xylenes, Total | 0.10 | | 0.016 | | mg/Kg | | | 03/03/15 13:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *79 - 120* | | *03/03/15 13:16* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 120* | | *03/03/15 13:16* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/03/15 13:16* | *1* |

## Client Sample ID: SB-9-19.5

**Lab Sample ID: 440-103093-4**

**Date Collected: 02/25/15 08:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 1200 | | 96 | | mg/Kg | | 03/09/15 20:31 | 03/11/15 10:29 | 10 |
| ORO (C29-C40) | 360 | | 96 | | mg/Kg | | 03/09/15 20:31 | 03/11/15 10:29 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *107* | | *40 - 140* | *03/09/15 20:31* | *03/11/15 10:29* | *10* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.6 | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:42 | 5 |

## Client Sample ID: SB-9-24.5

**Lab Sample ID: 440-103093-5**

**Date Collected: 02/25/15 09:17**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/04/15 10:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/04/15 10:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/04/15 10:03* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/04/15 10:03* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:44 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 13:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/03/15 13:44* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/03/15 13:44* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 13:44* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 17:32 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 17:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *89* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 17:32* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 9.4 | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:43 | 5 |

## Client Sample ID: SB-9-27.5

**Lab Sample ID: 440-103093-6**

**Date Collected: 02/25/15 09:53**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 14:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/03/15 14:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/03/15 14:13* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 14:13* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:13 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/03/15 14:13* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/03/15 14:13* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 14:13* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **7.2** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 17:54 | 1 |
| ORO (C29-C40) | ND | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 17:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *85* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 17:54* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.1** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:50 | 5 |

## Client Sample ID: SB-9-30

**Lab Sample ID: 440-103093-7**

**Date Collected: 02/25/15 11:20**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **3.4** | | 0.099 | | mg/Kg | | | 03/03/15 14:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 14:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *79 - 120* | | *03/03/15 14:41* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 14:41* | *1* |

## Client Sample ID: SB-9-30

**Lab Sample ID: 440-103093-7**

**Date Collected: 02/25/15 11:20**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:41 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *79 - 120* | | *03/03/15 14:41* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 14:41* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 14:41* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **53** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 18:17 | 1 |
| **ORO (C29-C40)** | **6.2** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 18:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *83* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 18:17* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **4.6** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:52 | 5 |

## Client Sample ID: SB-9-34.5

**Lab Sample ID: 440-103093-8**

**Date Collected: 02/25/15 11:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **0.14** | | 0.10 | | mg/Kg | | | 03/04/15 10:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/04/15 10:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/04/15 10:31* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/04/15 10:31* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 15:10 | 1 |

## Client Sample ID: SB-9-34.5

**Lab Sample ID: 440-103093-8**

**Date Collected: 02/25/15 11:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:10 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 15:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *79 - 120* | | *03/03/15 15:10* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 15:10* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 15:10* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **16** | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 18:39 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 18:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *77* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 18:39* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.6** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:54 | 5 |

## Client Sample ID: SB-9-39.5

**Lab Sample ID: 440-103093-9**

**Date Collected: 02/25/15 11:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **0.51** | | 0.10 | | mg/Kg | | | 03/03/15 15:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 15:38* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *79 - 120* | | *03/03/15 15:38* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 15:38* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:38 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 15:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *79 - 120* | | *03/03/15 15:38* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 15:38* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 15:38* | *1* |

## Client Sample ID: SB-9-39.5

**Lab Sample ID: 440-103093-9**

**Date Collected: 02/25/15 11:55**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **9.1** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 19:02 | 1 |
| ORO (C29-C40) | ND | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 19:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *69* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 19:02* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **5.9** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:56 | 5 |

## Client Sample ID: SB-9-44.5

**Lab Sample ID: 440-103093-10**

**Date Collected: 02/25/15 12:25**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 16:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 16:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *79 - 120* | | *03/03/15 16:06* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 16:06* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| m,p-Xylene | ND | | 0.0039 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:06 | 1 |
| Xylenes, Total | ND | | 0.0039 | | mg/Kg | | | 03/03/15 16:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *79 - 120* | | *03/03/15 16:06* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 16:06* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 16:06* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **8.8** | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 19:24 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 19:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *63* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 19:24* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.1** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:58 | 5 |

## Client Sample ID: SB-12-5

**Lab Sample ID: 440-103093-11**

**Date Collected: 02/25/15 13:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 16:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* | | *03/03/15 16:35* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 16:35* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/03/15 16:35* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:35 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 16:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 16:35* | *1* |
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* | | *03/03/15 16:35* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/03/15 16:35* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **68** | | 50 | | mg/Kg | | 03/09/15 20:31 | 03/11/15 00:36 | 10 |
| **ORO (C29-C40)** | **180** | | 50 | | mg/Kg | | 03/09/15 20:31 | 03/11/15 00:36 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *79* | | *40 - 140* | *03/09/15 20:31* | *03/11/15 00:36* | *10* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.7** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:59 | 5 |

## Client Sample ID: SB-12-10

**Lab Sample ID: 440-103093-12**

**Date Collected: 02/25/15 14:04**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 10:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 10:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 10:25* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 10:25* | *1* |

## Client Sample ID: SB-12-10

**Lab Sample ID: 440-103093-12**

**Date Collected: 02/25/15 14:04**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:25 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 10:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 10:25* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 10:25* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 10:25* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **7.4** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 19:46 | 1 |
| ORO (C29-C40) | ND | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 19:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *83* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 19:46* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.6** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/09/15 16:47 | 5 |

## Client Sample ID: SB-12-15

**Lab Sample ID: 440-103093-13**

**Date Collected: 02/25/15 14:15**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **9.3** | | 0.20 | | mg/Kg | | | 03/03/15 17:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 17:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *108* | | *79 - 120* | | *03/03/15 17:03* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 17:03* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0039 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| **Benzene** | **0.011** | | 0.0039 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| Ethylbenzene | ND | | 0.0039 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0039 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| m,p-Xylene | ND | | 0.0079 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0098 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| **Naphthalene** | **0.017** | | 0.0098 | | mg/Kg | | | 03/03/15 17:03 | 1 |

## Client Sample ID: SB-12-15

**Lab Sample ID: 440-103093-13**

**Date Collected: 02/25/15 14:15**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | ND | | 0.0039 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| Toluene | ND | | 0.0039 | | mg/Kg | | | 03/03/15 17:03 | 1 |
| Xylenes, Total | ND | | 0.0079 | | mg/Kg | | | 03/03/15 17:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *79 - 120* | | *03/03/15 17:03* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 17:03* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 17:03* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **320** | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 20:09 | 1 |
| **ORO (C29-C40)** | **110** | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 20:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *85* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 20:09* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.1** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 21:04 | 5 |

## Client Sample ID: SB-12-20

**Lab Sample ID: 440-103093-14**

**Date Collected: 02/25/15 14:30**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **0.49** | | 0.10 | | mg/Kg | | | 03/03/15 17:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 17:32* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 17:32* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 17:32* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| **Benzene** | **0.0023** | | 0.0020 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:32 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 17:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 17:32* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 17:32* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 17:32* | *1* |

## Client Sample ID: SB-12-20

**Lab Sample ID: 440-103093-14**

**Date Collected: 02/25/15 14:30**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 130 | | 10 | | mg/Kg | | 03/09/15 20:31 | 03/11/15 10:09 | 1 |
| ORO (C29-C40) | 36 | | 10 | | mg/Kg | | 03/09/15 20:31 | 03/11/15 10:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *94* | | *40 - 140* | *03/09/15 20:31* | *03/11/15 10:09* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 9.1 | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 21:06 | 5 |

## Client Sample ID: SB-12-25

**Lab Sample ID: 440-103093-15**

**Date Collected: 02/25/15 15:00**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 18:00* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 18:00* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 18:00* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:00 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *79 - 120* | | *03/03/15 18:00* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 18:00* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 18:00* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 12 | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 20:53 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 20:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *83* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 20:53* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 12 | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 21:08 | 5 |

## Client Sample ID: SB-12-30

**Lab Sample ID: 440-103093-16**

**Date Collected: 02/25/15 15:50**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **0.97** | | 0.098 | | mg/Kg | | | 03/03/15 18:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/03/15 18:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/03/15 18:28* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 18:28* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| **m,p-Xylene** | **0.0065** | | 0.0039 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 18:28 | 1 |
| **Xylenes, Total** | **0.0065** | | 0.0039 | | mg/Kg | | | 03/03/15 18:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/03/15 18:28* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/03/15 18:28* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 18:28* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 21:15 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 21:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *63* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 21:15* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.4** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 21:14 | 5 |

## Client Sample ID: SB-12-34.5

**Lab Sample ID: 440-103093-17**

**Date Collected: 02/25/15 15:55**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/03/15 10:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 10:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/03/15 10:45* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 10:45* | *1* |

## Client Sample ID: SB-12-34.5

**Lab Sample ID: 440-103093-17**

**Date Collected: 02/25/15 15:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 10:45 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 10:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/03/15 10:45* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 10:45* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 10:45* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.8 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 21:37 | 1 |
| ORO (C29-C40) | ND | | 9.8 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 21:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *70* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 21:37* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.9** | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 21:16 | 5 |

## Client Sample ID: SB-12-26.5

**Lab Sample ID: 440-103093-18**

**Date Collected: 02/25/15 15:15**

**Matrix: Water**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 50 | | ug/L | | | 03/09/15 12:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* | | *03/09/15 12:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *80 - 120* | | *03/09/15 12:31* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* | | *03/09/15 12:31* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.70** | | 0.50 | | ug/L | | | 03/09/15 12:31 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 03/09/15 12:31 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | | ug/L | | | 03/09/15 12:31 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 03/09/15 12:31 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 03/09/15 12:31 | 1 |
| 1,2-DCA | ND | | 0.50 | | ug/L | | | 03/09/15 12:31 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 03/09/15 12:31 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | | ug/L | | | 03/09/15 12:31 | 1 |

## Client Sample ID: SB-12-26.5

**Lab Sample ID: 440-103093-18**

**Date Collected: 02/25/15 15:15**

**Matrix: Water**

**Date Received: 02/28/15 11:00**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 106 | | 80 - 120 | | 03/09/15 12:31 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 76 - 132 | | 03/09/15 12:31 | 1 |
| Toluene-d8 (Surr) | 112 | | 80 - 128 | | 03/09/15 12:31 | 1 |

## Client Sample ID: SB-9-26.5

**Lab Sample ID: 440-103093-19**

**Date Collected: 02/25/15 11:00**

**Matrix: Water**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 3800 | | 50 | | ug/L | | | 03/09/15 12:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | 106 | | 76 - 132 | | 03/09/15 12:59 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 80 - 120 | | 03/09/15 12:59 | 1 |
| Toluene-d8 (Surr) | 111 | | 80 - 128 | | 03/09/15 12:59 | 1 |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 15 | | 0.50 | | ug/L | | | 03/09/15 12:59 | 1 |
| Ethylbenzene | 1.6 | | 0.50 | | ug/L | | | 03/09/15 12:59 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | | ug/L | | | 03/09/15 12:59 | 1 |
| Toluene | 3.2 | | 0.50 | | ug/L | | | 03/09/15 12:59 | 1 |
| Xylenes, Total | 13 | | 1.0 | | ug/L | | | 03/09/15 12:59 | 1 |
| 1,2-DCA | ND | | 0.50 | | ug/L | | | 03/09/15 12:59 | 1 |
| Naphthalene | 1.6 | | 1.0 | | ug/L | | | 03/09/15 12:59 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | | ug/L | | | 03/09/15 12:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 101 | | 80 - 120 | | 03/09/15 12:59 | 1 |
| Dibromofluoromethane (Surr) | 106 | | 76 - 132 | | 03/09/15 12:59 | 1 |
| Toluene-d8 (Surr) | 111 | | 80 - 128 | | 03/09/15 12:59 | 1 |

## Client Sample ID: SB-14-26

**Lab Sample ID: 440-103093-20**

**Date Collected: 02/26/15 09:10**

**Matrix: Water**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 92 | | 50 | | ug/L | | | 03/09/15 13:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | 103 | | 76 - 132 | | 03/09/15 13:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 109 | | 80 - 120 | | 03/09/15 13:27 | 1 |
| Toluene-d8 (Surr) | 110 | | 80 - 128 | | 03/09/15 13:27 | 1 |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 4.2 | | 0.50 | | ug/L | | | 03/09/15 13:27 | 1 |
| Ethylbenzene | 0.67 | | 0.50 | | ug/L | | | 03/09/15 13:27 | 1 |

## Client Sample ID: SB-14-26

**Lab Sample ID: 440-103093-20**

**Date Collected: 02/26/15 09:10**

**Matrix: Water**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | | ug/L | | | 03/09/15 13:27 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 03/09/15 13:27 | 1 |
| **Xylenes, Total** | **3.3** | | 1.0 | | ug/L | | | 03/09/15 13:27 | 1 |
| 1,2-DCA | ND | | 0.50 | | ug/L | | | 03/09/15 13:27 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 03/09/15 13:27 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | | ug/L | | | 03/09/15 13:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *80 - 120* | | *03/09/15 13:27* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* | | *03/09/15 13:27* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *80 - 128* | | *03/09/15 13:27* | *1* |

## Client Sample ID: SB-14-5

**Lab Sample ID: 440-103093-21**

**Date Collected: 02/26/15 09:35**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 12:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 12:09* | *1* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *79 - 120* | | *03/03/15 12:09* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/03/15 12:09* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:09 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 12:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *79 - 120* | | *03/03/15 12:09* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 12:09* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/03/15 12:09* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **28** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 22:22 | 1 |
| **ORO (C29-C40)** | **36** | | 4.9 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 22:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *70* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 22:22* | *1* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

## Client Sample ID: SB-14-5

**Lab Sample ID: 440-103093-21**

**Date Collected: 02/26/15 09:35**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.5 | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 21:18 | 5 |

## Client Sample ID: SB-14-10

**Lab Sample ID: 440-103093-22**

**Date Collected: 02/26/15 09:40**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/03/15 12:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 120* | | *03/03/15 12:38* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 12:38* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *79 - 123* | | *03/03/15 12:38* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 12:38 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 12:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 12:38* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 120* | | *03/03/15 12:38* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *79 - 123* | | *03/03/15 12:38* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 17:33 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 17:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *88* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 17:33* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.0 | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 21:20 | 5 |

## Client Sample ID: SB-14-15

**Lab Sample ID: 440-103093-23**

**Date Collected: 02/26/15 09:45**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 2700 | | 100 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *96* | | *55 - 140* | *03/03/15 15:52* | *03/04/15 13:07* | *1000* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *65 - 140* | *03/03/15 15:52* | *03/04/15 13:07* | *1000* |
| *Toluene-d8 (Surr)* | *104* | | *60 - 140* | *03/03/15 15:52* | *03/04/15 13:07* | *1000* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 3.9 | | 1.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| Ethylbenzene | 6.5 | | 1.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| m,p-Xylene | 47 | | 2.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 2.5 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| o-Xylene | ND | | 1.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| Toluene | ND | | 1.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| Xylenes, Total | 47 | | 2.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| 1,2-Dichloroethane | ND | | 1.0 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |
| Naphthalene | 9.5 | | 2.5 | | mg/Kg | | 03/03/15 15:52 | 03/04/15 13:07 | 1000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *104* | | *60 - 140* | *03/03/15 15:52* | *03/04/15 13:07* | *1000* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *65 - 140* | *03/03/15 15:52* | *03/04/15 13:07* | *1000* |
| *Dibromofluoromethane (Surr)* | *96* | | *55 - 140* | *03/03/15 15:52* | *03/04/15 13:07* | *1000* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 1400 | | 98 | | mg/Kg | | 03/10/15 18:35 | 03/12/15 09:25 | 10 |
| ORO (C29-C40) | 270 | | 98 | | mg/Kg | | 03/10/15 18:35 | 03/12/15 09:25 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *268* | *X* | *40 - 140* | *03/10/15 18:35* | *03/12/15 09:25* | *10* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.6 | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:40 | 5 |

## Client Sample ID: SB-14-20

**Lab Sample ID: 440-103093-24**

**Date Collected: 02/26/15 07:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 2.9 | | 0.099 | | mg/Kg | | | 03/03/15 13:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 120* | | *03/03/15 13:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 13:06* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/03/15 13:06* | *1* |

## Client Sample ID: SB-14-20

**Lab Sample ID: 440-103093-24**

**Date Collected: 02/26/15 07:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| **Benzene** | **0.0077** | | 0.0020 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| **Ethylbenzene** | **0.0026** | | 0.0020 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| **m,p-Xylene** | **0.017** | | 0.0040 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| **Naphthalene** | **0.0093** | | 0.0050 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:06 | 1 |
| **Xylenes, Total** | **0.017** | | 0.0040 | | mg/Kg | | | 03/03/15 13:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 13:06* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 120* | | *03/03/15 13:06* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/03/15 13:06* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **48** | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 18:41 | 1 |
| ORO (C29-C40) | ND | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 18:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *67* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 18:41* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.9** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:45 | 5 |

## Client Sample ID: SB-14-25

**Lab Sample ID: 440-103093-25**

**Date Collected: 02/26/15 08:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 13:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 13:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/03/15 13:34* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 13:34* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:34 | 1 |

## Client Sample ID: SB-14-25

**Lab Sample ID: 440-103093-25**

**Date Collected: 02/26/15 08:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 13:34 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 13:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* | | *03/03/15 13:34* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 13:34* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 13:34* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **13** | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 19:03 | 1 |
| ORO (C29-C40) | ND | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 19:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *86* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 19:03* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.9** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:47 | 5 |

## Client Sample ID: SB-14-30

**Lab Sample ID: 440-103093-26**

**Date Collected: 02/26/15 09:45**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/03/15 14:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 14:02* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 14:02* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 14:02* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:02 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 14:02* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 14:02* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 14:02* | *1* |

## Client Sample ID: SB-14-30

**Lab Sample ID: 440-103093-26**

**Date Collected: 02/26/15 09:45**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 5.6 | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 19:25 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 19:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *72* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 19:25* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.1 | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:49 | 5 |

## Client Sample ID: SB-14-34.5

**Lab Sample ID: 440-103093-27**

**Date Collected: 02/26/15 09:50**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/04/15 10:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/04/15 10:59* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *03/04/15 10:59* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/04/15 10:59* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 10:59 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/04/15 10:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* | | *03/04/15 10:59* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/04/15 10:59* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/04/15 10:59* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 19:48 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 19:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *84* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 19:48* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.0 | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:50 | 5 |

## Client Sample ID: SB-11-5

**Lab Sample ID: 440-103093-28**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/03/15 14:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *111* | | *60 - 120* | | *03/03/15 14:58* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 14:58* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 14:58* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 14:58 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 14:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 14:58* | *1* |
| *Dibromofluoromethane (Surr)* | *111* | | *60 - 120* | | *03/03/15 14:58* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 14:58* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **15** | | 10 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 20:10 | 1 |
| ORO (C29-C40) | ND | | 10 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 20:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *81* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 20:10* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.0** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:52 | 5 |

## Client Sample ID: SB-11-10

**Lab Sample ID: 440-103093-29**

**Date Collected: 02/26/15 10:36**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 15:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 15:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 15:27* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* | | *03/03/15 15:27* | *1* |

## Client Sample ID: SB-11-10

**Lab Sample ID: 440-103093-29**

**Date Collected: 02/26/15 10:36**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 15:27 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 15:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 15:27* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 120* | | *03/03/15 15:27* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* | | *03/03/15 15:27* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **27** | | 10 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 20:32 | 1 |
| ORO (C29-C40) | ND | | 10 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 20:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *79* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 20:32* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.7** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:58 | 5 |

## Client Sample ID: SB-11-15

**Lab Sample ID: 440-103093-30**

**Date Collected: 02/26/15 10:43**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **19** | | 0.45 | | mg/Kg | | | 03/03/15 15:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 120* | | *03/03/15 15:55* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 15:55* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 15:55* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0090 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| **Benzene** | **0.018** | | 0.0090 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| Ethylbenzene | ND | | 0.0090 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0090 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| m,p-Xylene | ND | | 0.018 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.023 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| Naphthalene | ND | | 0.023 | | mg/Kg | | | 03/03/15 15:55 | 1 |

## Client Sample ID: SB-11-15

**Lab Sample ID: 440-103093-30**

**Date Collected: 02/26/15 10:43**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | ND | | 0.0090 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| Toluene | ND | | 0.0090 | | mg/Kg | | | 03/03/15 15:55 | 1 |
| Xylenes, Total | ND | | 0.018 | | mg/Kg | | | 03/03/15 15:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *79 - 120* | | *03/03/15 15:55* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 120* | | *03/03/15 15:55* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* | | *03/03/15 15:55* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **36** | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 20:55 | 1 |
| ORO (C29-C40) | ND | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 20:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *86* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 20:55* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.9** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 17:00 | 5 |

## Client Sample ID: SB-11-20

**Lab Sample ID: 440-103093-31**

**Date Collected: 02/26/15 10:52**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 16:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/03/15 16:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 16:23* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 16:23* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| m,p-Xylene | ND | | 0.0039 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:23 | 1 |
| Xylenes, Total | ND | | 0.0039 | | mg/Kg | | | 03/03/15 16:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 16:23* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/03/15 16:23* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 16:23* | *1* |

## Client Sample ID: SB-11-20

**Lab Sample ID: 440-103093-31**

**Date Collected: 02/26/15 10:52**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 9.4 | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 21:17 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 21:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *85* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 21:17* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.8 | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 17:05 | 5 |

## Client Sample ID: SB-11-25

**Lab Sample ID: 440-103093-32**

**Date Collected: 02/26/15 11:20**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 0.19 | | 0.099 | | mg/Kg | | | 03/03/15 16:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 16:51* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/03/15 16:51* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 16:51* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| m,p-Xylene | ND | | 0.0039 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 16:51 | 1 |
| Xylenes, Total | ND | | 0.0039 | | mg/Kg | | | 03/03/15 16:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* | | *03/03/15 16:51* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/03/15 16:51* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/03/15 16:51* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 21:40 | 1 |
| ORO (C29-C40) | ND | | 9.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 21:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *83* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 21:40* | *1* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

## Client Sample ID: SB-11-25

**Lab Sample ID: 440-103093-32**

**Date Collected: 02/26/15 11:20**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.0** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 17:07 | 5 |

## Client Sample ID: SB-11-30

**Lab Sample ID: 440-103093-33**

**Date Collected: 02/26/15 15:35**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **15** | | 0.22 | | mg/Kg | | | 03/03/15 17:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/03/15 17:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *118* | | *79 - 120* | | *03/03/15 17:19* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/03/15 17:19* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0043 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| Benzene | ND | | 0.0043 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| Ethylbenzene | ND | | 0.0043 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0043 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| **m,p-Xylene** | **0.022** | | 0.0087 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.011 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| Naphthalene | ND | | 0.011 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| o-Xylene | ND | | 0.0043 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| Toluene | ND | | 0.0043 | | mg/Kg | | | 03/03/15 17:19 | 1 |
| **Xylenes, Total** | **0.022** | | 0.0087 | | mg/Kg | | | 03/03/15 17:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *79 - 120* | | *03/03/15 17:19* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/03/15 17:19* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/03/15 17:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **50** | | 4.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 22:02 | 1 |
| ORO (C29-C40) | ND | | 4.9 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 22:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *66* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 22:02* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.0** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 17:08 | 5 |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

## Client Sample ID: SB-11-34.5

**Lab Sample ID: 440-103093-34**

**Date Collected: 02/26/15 15:50**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/03/15 17:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/03/15 17:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 17:48* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 17:48* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0049 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| Naphthalene | ND | | 0.0049 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 17:48 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 17:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 17:48* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/03/15 17:48* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 17:48* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.7 | | mg/Kg | | 03/10/15 18:37 | 03/11/15 22:25 | 1 |
| ORO (C29-C40) | ND | | 9.7 | | mg/Kg | | 03/10/15 18:37 | 03/11/15 22:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *78* | | *40 - 140* | *03/10/15 18:37* | *03/11/15 22:25* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.8** | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 17:10 | 5 |

## Client Sample ID: SB-11-35

**Lab Sample ID: 440-103093-35**

**Date Collected: 02/26/15 16:50**
**Matrix: Water**
**Date Received: 02/28/15 11:00**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **11000** | | 250 | | ug/L | | | 03/09/15 13:56 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* | | *03/09/15 13:56* | *5* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *80 - 120* | | *03/09/15 13:56* | *5* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* | | *03/09/15 13:56* | *5* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

**Client Sample ID: SB-11-35**
**Date Collected: 02/26/15 16:50**
**Date Received: 02/28/15 11:00**

**Lab Sample ID: 440-103093-35**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **80** | | 2.5 | | ug/L | | | 03/09/15 13:56 | 5 |
| **Ethylbenzene** | **3.7** | | 2.5 | | ug/L | | | 03/09/15 13:56 | 5 |
| **Methyl-t-Butyl Ether (MTBE)** | **20** | | 2.5 | | ug/L | | | 03/09/15 13:56 | 5 |
| **Toluene** | **4.6** | | 2.5 | | ug/L | | | 03/09/15 13:56 | 5 |
| **Xylenes, Total** | **20** | | 5.0 | | ug/L | | | 03/09/15 13:56 | 5 |
| 1,2-DCA | ND | | 2.5 | | ug/L | | | 03/09/15 13:56 | 5 |
| Naphthalene | ND | | 5.0 | | ug/L | | | 03/09/15 13:56 | 5 |
| 1,2-Dibromoethane (EDB) | ND | | 2.5 | | ug/L | | | 03/09/15 13:56 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *80 - 120* | | *03/09/15 13:56* | *5* |
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* | | *03/09/15 13:56* | *5* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* | | *03/09/15 13:56* | *5* |

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8260B/CA_LUFTMS | Volatile Organic Compounds by GC/MS | SW846 | TAL IRV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL IRV |
| 6010B | Metals (ICP) | SW846 | TAL IRV |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Client Sample ID: SB-9-5

**Lab Sample ID: 440-103093-1**

**Date Collected: 02/25/15 07:53**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.04 g | 10 mL | 240031 | 03/03/15 11:51 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.04 g | 10 mL | 240032 | 03/03/15 11:51 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.35 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.35 g | 1 mL | 241547 | 03/10/15 23:06 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241284 | 03/06/15 20:35 | EN | TAL IRV |

## Client Sample ID: SB-9-10

**Lab Sample ID: 440-103093-2**

**Date Collected: 02/25/15 08:07**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.08 g | 10 mL | 240031 | 03/03/15 12:19 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.08 g | 10 mL | 240032 | 03/03/15 12:19 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.12 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.12 g | 1 mL | 241547 | 03/10/15 16:25 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 1.99 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 1.99 g | 50 mL | 241284 | 03/06/15 20:38 | EN | TAL IRV |

## Client Sample ID: SB-9-14.5

**Lab Sample ID: 440-103093-3**

**Date Collected: 02/25/15 08:14**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 2.39 g | 10 mL | 240031 | 03/03/15 12:47 | AL | TAL IRV |
| Total/NA | Prep | 5030B | | | 10.03 g | 10 mL | 240195 | 03/03/15 15:52 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 400 | 10.03 g | 10 mL | 240898 | 03/06/15 16:57 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.63 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.63 g | 1 mL | 241547 | 03/10/15 16:48 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241284 | 03/06/15 20:40 | EN | TAL IRV |

## Client Sample ID: SB-9-19.5

**Lab Sample ID: 440-103093-4**

**Date Collected: 02/25/15 08:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 1.27 g | 10 mL | 240031 | 03/03/15 13:16 | AL | TAL IRV |
| Total/NA | Prep | 5030B | | | 10.04 g | 10 mL | 240195 | 03/03/15 15:52 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 400 | 10.04 g | 10 mL | 240310 | 03/04/15 12:40 | HR | TAL IRV |

## Client Sample ID: SB-9-19.5

**Lab Sample ID: 440-103093-4**

**Date Collected: 02/25/15 08:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 7.78 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 10 | 7.78 g | 1 mL | 241967 | 03/11/15 10:29 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 20:42 | EN | TAL IRV |

## Client Sample ID: SB-9-24.5

**Lab Sample ID: 440-103093-5**

**Date Collected: 02/25/15 09:17**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 240031 | 03/03/15 13:44 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 240306 | 03/04/15 10:03 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.15 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.15 g | 1 mL | 241547 | 03/10/15 17:32 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 20:43 | EN | TAL IRV |

## Client Sample ID: SB-9-27.5

**Lab Sample ID: 440-103093-6**

**Date Collected: 02/25/15 09:53**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.06 g | 10 mL | 240031 | 03/03/15 14:13 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.06 g | 10 mL | 240032 | 03/03/15 14:13 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.16 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.16 g | 1 mL | 241547 | 03/10/15 17:54 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 20:50 | EN | TAL IRV |

## Client Sample ID: SB-9-30

**Lab Sample ID: 440-103093-7**

**Date Collected: 02/25/15 11:20**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.06 g | 10 mL | 240031 | 03/03/15 14:41 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.06 g | 10 mL | 240032 | 03/03/15 14:41 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.36 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.36 g | 1 mL | 241547 | 03/10/15 18:17 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.04 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.04 g | 50 mL | 241284 | 03/06/15 20:52 | EN | TAL IRV |

## Client Sample ID: SB-9-34.5

**Lab Sample ID: 440-103093-8**

**Date Collected: 02/25/15 11:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.02 g | 10 mL | 240031 | 03/03/15 15:10 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5 g | 10 mL | 240306 | 03/04/15 10:31 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.04 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.04 g | 1 mL | 241547 | 03/10/15 18:39 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 20:54 | EN | TAL IRV |

## Client Sample ID: SB-9-39.5

**Lab Sample ID: 440-103093-9**

**Date Collected: 02/25/15 11:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.02 g | 10 mL | 240031 | 03/03/15 15:38 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.02 g | 10 mL | 240032 | 03/03/15 15:38 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.20 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.20 g | 1 mL | 241547 | 03/10/15 19:02 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241284 | 03/06/15 20:56 | EN | TAL IRV |

## Client Sample ID: SB-9-44.5

**Lab Sample ID: 440-103093-10**

**Date Collected: 02/25/15 12:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.07 g | 10 mL | 240031 | 03/03/15 16:06 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.07 g | 10 mL | 240032 | 03/03/15 16:06 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.05 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.05 g | 1 mL | 241547 | 03/10/15 19:24 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 241284 | 03/06/15 20:58 | EN | TAL IRV |

## Client Sample ID: SB-12-5

**Lab Sample ID: 440-103093-11**

**Date Collected: 02/25/15 13:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.03 g | 10 mL | 240031 | 03/03/15 16:35 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.03 g | 10 mL | 240032 | 03/03/15 16:35 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.11 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 10 | 15.11 g | 1 mL | 241547 | 03/11/15 00:36 | CN | TAL IRV |

## Client Sample ID: SB-12-5

**Lab Sample ID: 440-103093-11**

**Date Collected: 02/25/15 13:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 20:59 | EN | TAL IRV |

## Client Sample ID: SB-12-10

**Lab Sample ID: 440-103093-12**

**Date Collected: 02/25/15 14:04**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.04 g | 10 mL | 240031 | 03/03/15 10:25 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.04 g | 10 mL | 240032 | 03/03/15 10:25 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.19 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.19 g | 1 mL | 241547 | 03/10/15 19:46 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241460 | 03/09/15 16:47 | EN | TAL IRV |

## Client Sample ID: SB-12-15

**Lab Sample ID: 440-103093-13**

**Date Collected: 02/25/15 14:15**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 2.54 g | 10 mL | 240031 | 03/03/15 17:03 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 2.54 g | 10 mL | 240032 | 03/03/15 17:03 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.04 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.04 g | 1 mL | 241547 | 03/10/15 20:09 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 241284 | 03/06/15 21:04 | EN | TAL IRV |

## Client Sample ID: SB-12-20

**Lab Sample ID: 440-103093-14**

**Date Collected: 02/25/15 14:30**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.02 g | 10 mL | 240031 | 03/03/15 17:32 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.02 g | 10 mL | 240032 | 03/03/15 17:32 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.53 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.53 g | 1 mL | 241967 | 03/11/15 10:09 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 21:06 | EN | TAL IRV |

## Client Sample ID: SB-12-25

**Lab Sample ID: 440-103093-15**

**Date Collected: 02/25/15 15:00**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.06 g | 10 mL | 240031 | 03/03/15 18:00 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.06 g | 10 mL | 240032 | 03/03/15 18:00 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.11 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.11 g | 1 mL | 241547 | 03/10/15 20:53 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 21:08 | EN | TAL IRV |

## Client Sample ID: SB-12-30

**Lab Sample ID: 440-103093-16**

**Date Collected: 02/25/15 15:50**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.08 g | 10 mL | 240031 | 03/03/15 18:28 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.08 g | 10 mL | 240032 | 03/03/15 18:28 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.02 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.02 g | 1 mL | 241547 | 03/10/15 21:15 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241284 | 03/06/15 21:14 | EN | TAL IRV |

## Client Sample ID: SB-12-34.5

**Lab Sample ID: 440-103093-17**

**Date Collected: 02/25/15 15:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5 g | 10 mL | 240029 | 03/03/15 10:45 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5 g | 10 mL | 240030 | 03/03/15 10:45 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.65 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.65 g | 1 mL | 241547 | 03/10/15 21:37 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241284 | 03/06/15 21:16 | EN | TAL IRV |

## Client Sample ID: SB-12-26.5

**Lab Sample ID: 440-103093-18**

**Date Collected: 02/25/15 15:15**

**Matrix: Water**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 10 mL | 10 mL | 241306 | 03/09/15 12:31 | RM | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 10 mL | 10 mL | 241307 | 03/09/15 12:31 | RM | TAL IRV |

## Client Sample ID: SB-9-26.5

**Lab Sample ID: 440-103093-19**

**Date Collected: 02/25/15 11:00**
**Matrix: Water**
**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 10 mL | 10 mL | 241306 | 03/09/15 12:59 | RM | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 10 mL | 10 mL | 241307 | 03/09/15 12:59 | RM | TAL IRV |

## Client Sample ID: SB-14-26

**Lab Sample ID: 440-103093-20**

**Date Collected: 02/26/15 09:10**
**Matrix: Water**
**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 10 mL | 10 mL | 241306 | 03/09/15 13:27 | RM | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 10 mL | 10 mL | 241307 | 03/09/15 13:27 | RM | TAL IRV |

## Client Sample ID: SB-14-5

**Lab Sample ID: 440-103093-21**

**Date Collected: 02/26/15 09:35**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.06 g | 10 mL | 240029 | 03/03/15 12:09 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.06 g | 10 mL | 240030 | 03/03/15 12:09 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.20 g | 1 mL | 241486 | 03/09/15 20:31 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.20 g | 1 mL | 241547 | 03/10/15 22:22 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241284 | 03/06/15 21:18 | EN | TAL IRV |

## Client Sample ID: SB-14-10

**Lab Sample ID: 440-103093-22**

**Date Collected: 02/26/15 09:40**
**Matrix: Solid**
**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.02 g | 10 mL | 240029 | 03/03/15 12:38 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.02 g | 10 mL | 240030 | 03/03/15 12:38 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.15 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.15 g | 1 mL | 241964 | 03/11/15 17:33 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240607 | 03/05/15 08:31 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241284 | 03/06/15 21:20 | EN | TAL IRV |

## Client Sample ID: SB-14-15

**Lab Sample ID: 440-103093-23**

**Date Collected: 02/26/15 09:45**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5030B | | | 10.04 g | 10 mL | 240195 | 03/03/15 15:52 | AL | TAL IRV |
| Total/NA | Analysis | 8260B | | 1000 | 10.04 g | 10 mL | 240309 | 03/04/15 13:07 | AL | TAL IRV |
| Total/NA | Prep | 5030B | | | 10.04 g | 10 mL | 240195 | 03/03/15 15:52 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1000 | 10.04 g | 10 mL | 240310 | 03/04/15 13:07 | HR | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.65 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 10 | 7.65 g | 1 mL | 242226 | 03/12/15 09:25 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241461 | 03/09/15 16:40 | EN | TAL IRV |

## Client Sample ID: SB-14-20

**Lab Sample ID: 440-103093-24**

**Date Collected: 02/26/15 07:55**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.04 g | 10 mL | 240029 | 03/03/15 13:06 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.04 g | 10 mL | 240030 | 03/03/15 13:06 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.57 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.57 g | 1 mL | 241964 | 03/11/15 18:41 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241461 | 03/09/15 16:45 | EN | TAL IRV |

## Client Sample ID: SB-14-25

**Lab Sample ID: 440-103093-25**

**Date Collected: 02/26/15 08:25**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.04 g | 10 mL | 240029 | 03/03/15 13:34 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.04 g | 10 mL | 240030 | 03/03/15 13:34 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.57 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.57 g | 1 mL | 241964 | 03/11/15 19:03 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241461 | 03/09/15 16:47 | EN | TAL IRV |

## Client Sample ID: SB-14-30

**Lab Sample ID: 440-103093-26**

**Date Collected: 02/26/15 09:45**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 240029 | 03/03/15 14:02 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 240030 | 03/03/15 14:02 | AL | TAL IRV |

## Client Sample ID: SB-14-30

**Lab Sample ID: 440-103093-26**

**Date Collected: 02/26/15 09:45**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 15.06 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.06 g | 1 mL | 241964 | 03/11/15 19:25 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.04 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.04 g | 50 mL | 241461 | 03/09/15 16:49 | EN | TAL IRV |

## Client Sample ID: SB-14-34.5

**Lab Sample ID: 440-103093-27**

**Date Collected: 02/26/15 09:50**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.02 g | 10 mL | 240305 | 03/04/15 10:59 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.02 g | 10 mL | 240306 | 03/04/15 10:59 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.15 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.15 g | 1 mL | 241964 | 03/11/15 19:48 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.04 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.04 g | 50 mL | 241461 | 03/09/15 16:50 | EN | TAL IRV |

## Client Sample ID: SB-11-5

**Lab Sample ID: 440-103093-28**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5 g | 10 mL | 240029 | 03/03/15 14:58 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5 g | 10 mL | 240030 | 03/03/15 14:58 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.52 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.52 g | 1 mL | 241964 | 03/11/15 20:10 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241461 | 03/09/15 16:52 | EN | TAL IRV |

## Client Sample ID: SB-11-10

**Lab Sample ID: 440-103093-29**

**Date Collected: 02/26/15 10:36**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.04 g | 10 mL | 240029 | 03/03/15 15:27 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.04 g | 10 mL | 240030 | 03/03/15 15:27 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.52 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.52 g | 1 mL | 241964 | 03/11/15 20:32 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 241461 | 03/09/15 16:58 | EN | TAL IRV |

## Client Sample ID: SB-11-15

**Lab Sample ID: 440-103093-30**

**Date Collected: 02/26/15 10:43**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 1.11 g | 10 mL | 240029 | 03/03/15 15:55 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 1.11 g | 10 mL | 240030 | 03/03/15 15:55 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.55 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.55 g | 1 mL | 241964 | 03/11/15 20:55 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 241461 | 03/09/15 17:00 | EN | TAL IRV |

## Client Sample ID: SB-11-20

**Lab Sample ID: 440-103093-31**

**Date Collected: 02/26/15 10:52**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.07 g | 10 mL | 240029 | 03/03/15 16:23 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.07 g | 10 mL | 240030 | 03/03/15 16:23 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.02 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.02 g | 1 mL | 241964 | 03/11/15 21:17 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 1.99 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 1.99 g | 50 mL | 241461 | 03/09/15 17:05 | EN | TAL IRV |

## Client Sample ID: SB-11-25

**Lab Sample ID: 440-103093-32**

**Date Collected: 02/26/15 11:20**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.07 g | 10 mL | 240029 | 03/03/15 16:51 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.07 g | 10 mL | 240030 | 03/03/15 16:51 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.60 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.60 g | 1 mL | 241964 | 03/11/15 21:40 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241461 | 03/09/15 17:07 | EN | TAL IRV |

## Client Sample ID: SB-11-30

**Lab Sample ID: 440-103093-33**

**Date Collected: 02/26/15 15:35**

**Matrix: Solid**

**Date Received: 02/28/15 11:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 2.3 g | 10 mL | 240029 | 03/03/15 17:19 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 2.3 g | 10 mL | 240030 | 03/03/15 17:19 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.18 g | 1 mL | 241789 | 03/10/15 18:35 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.18 g | 1 mL | 241964 | 03/11/15 22:02 | CN | TAL IRV |

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

## Client Sample ID: SB-11-30

**Date Collected: 02/26/15 15:35**
**Date Received: 02/28/15 11:00**

## Lab Sample ID: 440-103093-33

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241461 | 03/09/15 17:08 | EN | TAL IRV |

## Client Sample ID: SB-11-34.5

**Date Collected: 02/26/15 15:50**
**Date Received: 02/28/15 11:00**

## Lab Sample ID: 440-103093-34

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.06 g | 10 mL | 240029 | 03/03/15 17:48 | AL | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.06 g | 10 mL | 240030 | 03/03/15 17:48 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.70 g | 1 mL | 241789 | 03/10/15 18:37 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.70 g | 1 mL | 241964 | 03/11/15 22:25 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.00 g | 50 mL | 240677 | 03/05/15 11:16 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.00 g | 50 mL | 241461 | 03/09/15 17:10 | EN | TAL IRV |

## Client Sample ID: SB-11-35

**Date Collected: 02/26/15 16:50**
**Date Received: 02/28/15 11:00**

## Lab Sample ID: 440-103093-35

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 5 | 10 mL | 10 mL | 241306 | 03/09/15 13:56 | RM | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 5 | 10 mL | 10 mL | 241307 | 03/09/15 13:56 | RM | TAL IRV |

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-240029/5**
**Matrix: Solid**
**Analysis Batch: 240029**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 09:11 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 09:11 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/03/15 09:11* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 09:11* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/03/15 09:11* | *1* |

**Lab Sample ID: LCS 440-240029/6**
**Matrix: Solid**
**Analysis Batch: 240029**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0519 | | mg/Kg | | 104 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0514 | | mg/Kg | | 103 | 70 - 125 |
| m,p-Xylene | 0.0500 | 0.0557 | | mg/Kg | | 111 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0522 | | mg/Kg | | 104 | 60 - 140 |
| o-Xylene | 0.0500 | 0.0543 | | mg/Kg | | 109 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0570 | | mg/Kg | | 114 | 70 - 130 |
| Toluene | 0.0500 | 0.0538 | | mg/Kg | | 108 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0506 | | mg/Kg | | 101 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0525 | | mg/Kg | | 105 | 55 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: 440-103093-17 MS**
**Matrix: Solid**
**Analysis Batch: 240029**

**Client Sample ID: SB-12-34.5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0500 | 0.0517 | | mg/Kg | | 103 | 65 - 130 |
| Ethylbenzene | ND | | 0.0500 | 0.0527 | | mg/Kg | | 105 | 70 - 135 |
| m,p-Xylene | ND | | 0.0500 | 0.0566 | | mg/Kg | | 113 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0500 | 0.0506 | | mg/Kg | | 101 | 55 - 155 |
| o-Xylene | ND | | 0.0500 | 0.0548 | | mg/Kg | | 110 | 65 - 130 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0500 | 0.0562 | | mg/Kg | | 112 | 65 - 140 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-103093-17 MS**
**Matrix: Solid**
**Analysis Batch: 240029**

**Client Sample ID: SB-12-34.5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.0500 | 0.0547 | | mg/Kg | | 109 | 70 - 130 |
| 1,2-Dichloroethane | ND | | 0.0500 | 0.0482 | | mg/Kg | | 96 | 60 - 150 |
| Naphthalene | ND | | 0.0500 | 0.0515 | | mg/Kg | | 103 | 40 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

**Lab Sample ID: 440-103093-17 MSD**
**Matrix: Solid**
**Analysis Batch: 240029**

**Client Sample ID: SB-12-34.5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0500 | 0.0485 | | mg/Kg | | 97 | 65 - 130 | 6 | 20 |
| Ethylbenzene | ND | | 0.0500 | 0.0496 | | mg/Kg | | 99 | 70 - 135 | 6 | 25 |
| m,p-Xylene | ND | | 0.0500 | 0.0524 | | mg/Kg | | 105 | 70 - 130 | 8 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0500 | 0.0469 | | mg/Kg | | 94 | 55 - 155 | 8 | 35 |
| o-Xylene | ND | | 0.0500 | 0.0518 | | mg/Kg | | 104 | 65 - 130 | 6 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0500 | 0.0539 | | mg/Kg | | 108 | 65 - 140 | 4 | 25 |
| Toluene | ND | | 0.0500 | 0.0513 | | mg/Kg | | 103 | 70 - 130 | 6 | 20 |
| 1,2-Dichloroethane | ND | | 0.0500 | 0.0468 | | mg/Kg | | 94 | 60 - 150 | 3 | 25 |
| Naphthalene | ND | | 0.0500 | 0.0482 | | mg/Kg | | 96 | 40 - 150 | 7 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

**Lab Sample ID: MB 440-240031/4**
**Matrix: Solid**
**Analysis Batch: 240031**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/03/15 08:50 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/03/15 08:50 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 08:50* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-240031/4**
**Matrix: Solid**
**Analysis Batch: 240031**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* | | *03/03/15 08:50* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 08:50* | *1* |

**Lab Sample ID: LCS 440-240031/5**
**Matrix: Solid**
**Analysis Batch: 240031**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0510 | | mg/Kg | | 102 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0503 | | mg/Kg | | 101 | 70 - 125 |
| m,p-Xylene | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0530 | | mg/Kg | | 106 | 60 - 140 |
| o-Xylene | 0.0500 | 0.0520 | | mg/Kg | | 104 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0535 | | mg/Kg | | 107 | 70 - 130 |
| Toluene | 0.0500 | 0.0508 | | mg/Kg | | 102 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0521 | | mg/Kg | | 104 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0498 | | mg/Kg | | 100 | 55 - 135 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *79 - 123* |

**Lab Sample ID: 440-103093-12 MS**
**Matrix: Solid**
**Analysis Batch: 240031**

**Client Sample ID: SB-12-10**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0496 | 0.0434 | | mg/Kg | | 88 | 65 - 130 |
| Ethylbenzene | ND | | 0.0496 | 0.0393 | | mg/Kg | | 79 | 70 - 135 |
| m,p-Xylene | ND | | 0.0496 | 0.0407 | | mg/Kg | | 82 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0496 | 0.0453 | | mg/Kg | | 91 | 55 - 155 |
| o-Xylene | ND | | 0.0496 | 0.0412 | | mg/Kg | | 83 | 65 - 130 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0496 | 0.0458 | | mg/Kg | | 92 | 65 - 140 |
| Toluene | ND | | 0.0496 | 0.0419 | | mg/Kg | | 84 | 70 - 130 |
| 1,2-Dichloroethane | ND | | 0.0496 | 0.0440 | | mg/Kg | | 89 | 60 - 150 |
| Naphthalene | ND | | 0.0496 | 0.0351 | | mg/Kg | | 71 | 40 - 150 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-103093-12 MSD**
**Matrix: Solid**
**Analysis Batch: 240031**

**Client Sample ID: SB-12-10**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0495 | 0.0496 | | mg/Kg | | 100 | 65 - 130 | 13 | 20 |
| Ethylbenzene | ND | | 0.0495 | 0.0490 | | mg/Kg | | 99 | 70 - 135 | 22 | 25 |
| m,p-Xylene | ND | | 0.0495 | 0.0514 | | mg/Kg | | 104 | 70 - 130 | 23 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0495 | 0.0517 | | mg/Kg | | 104 | 55 - 155 | 13 | 35 |
| o-Xylene | ND | | 0.0495 | 0.0506 | | mg/Kg | | 102 | 65 - 130 | 21 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0495 | 0.0530 | | mg/Kg | | 107 | 65 - 140 | 14 | 25 |
| Toluene | ND | | 0.0495 | 0.0491 | | mg/Kg | | 99 | 70 - 130 | 16 | 20 |
| 1,2-Dichloroethane | ND | | 0.0495 | 0.0512 | | mg/Kg | | 103 | 60 - 150 | 15 | 25 |
| Naphthalene | ND | | 0.0495 | 0.0490 | | mg/Kg | | 99 | 40 - 150 | 33 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *102* | | *79 - 123* |

**Lab Sample ID: MB 440-240305/4**
**Matrix: Solid**
**Analysis Batch: 240305**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/04/15 08:34 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/04/15 08:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/04/15 08:34* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/04/15 08:34* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/04/15 08:34* | *1* |

**Lab Sample ID: LCS 440-240305/5**
**Matrix: Solid**
**Analysis Batch: 240305**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0505 | | mg/Kg | | 101 | 70 - 125 |
| m,p-Xylene | 0.0500 | 0.0545 | | mg/Kg | | 109 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0528 | | mg/Kg | | 106 | 60 - 140 |
| o-Xylene | 0.0500 | 0.0530 | | mg/Kg | | 106 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0570 | | mg/Kg | | 114 | 70 - 130 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-240305/5**
**Matrix: Solid**
**Analysis Batch: 240305**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Toluene | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0479 | | mg/Kg | | 96 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0527 | | mg/Kg | | 105 | 55 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *79 - 123* |

**Lab Sample ID: MB 440-240309/4**
**Matrix: Solid**
**Analysis Batch: 240309**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.10 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| Ethylbenzene | ND | | 0.10 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| m,p-Xylene | ND | | 0.20 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.25 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| o-Xylene | ND | | 0.10 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| 1,2-Dibromoethane (EDB) | ND | | 0.10 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| Toluene | ND | | 0.10 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| 1,2-Dichloroethane | ND | | 0.10 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| Xylenes, Total | ND | | 0.20 | | mg/Kg | | | 03/04/15 08:35 | 100 |
| Naphthalene | ND | | 0.25 | | mg/Kg | | | 03/04/15 08:35 | 100 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *65 - 140* | | *03/04/15 08:35* | *100* |
| *Dibromofluoromethane (Surr)* | *98* | | *55 - 140* | | *03/04/15 08:35* | *100* |
| *Toluene-d8 (Surr)* | *103* | | *60 - 140* | | *03/04/15 08:35* | *100* |

**Lab Sample ID: LCS 440-240309/5**
**Matrix: Solid**
**Analysis Batch: 240309**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.84 | | mg/Kg | | 114 | 65 - 120 |
| Ethylbenzene | 2.50 | 2.86 | | mg/Kg | | 115 | 80 - 120 |
| m,p-Xylene | 2.50 | 2.94 | | mg/Kg | | 117 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 2.50 | 2.83 | | mg/Kg | | 113 | 55 - 145 |
| o-Xylene | 2.50 | 2.96 | | mg/Kg | | 118 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 2.50 | 2.81 | | mg/Kg | | 113 | 70 - 130 |
| Toluene | 2.50 | 2.88 | | mg/Kg | | 115 | 80 - 120 |
| 1,2-Dichloroethane | 2.50 | 2.79 | | mg/Kg | | 112 | 60 - 145 |
| tert-Butyl alcohol (TBA) | 25.0 | 27.4 | | mg/Kg | | 110 | 65 - 140 |
| Naphthalene | 2.50 | 2.81 | | mg/Kg | | 112 | 50 - 140 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-240309/5**
**Matrix: Solid**
**Analysis Batch: 240309**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *65 - 140* |
| *Dibromofluoromethane (Surr)* | *103* | | *55 - 140* |
| *Toluene-d8 (Surr)* | *99* | | *60 - 140* |

**Lab Sample ID: LCSD 440-240309/6**
**Matrix: Solid**
**Analysis Batch: 240309**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 2.50 | 2.93 | | mg/Kg | | 117 | 65 - 120 | 3 | 20 |
| Ethylbenzene | | | 2.50 | 3.00 | | mg/Kg | | 120 | 80 - 120 | 5 | 20 |
| m,p-Xylene | | | 2.50 | 3.04 | | mg/Kg | | 122 | 70 - 125 | 3 | 20 |
| Methyl-t-Butyl Ether (MTBE) | | | 2.50 | 2.99 | | mg/Kg | | 119 | 55 - 145 | 5 | 25 |
| o-Xylene | | | 2.50 | 3.10 | | mg/Kg | | 124 | 70 - 125 | 5 | 20 |
| 1,2-Dibromoethane (EDB) | | | 2.50 | 2.99 | | mg/Kg | | 120 | 70 - 130 | 6 | 20 |
| Toluene | | | 2.50 | 2.98 | | mg/Kg | | 119 | 80 - 120 | 3 | 20 |
| 1,2-Dichloroethane | | | 2.50 | 2.90 | | mg/Kg | | 116 | 60 - 145 | 4 | 20 |
| tert-Butyl alcohol (TBA) | | | 25.0 | 27.1 | | mg/Kg | | 108 | 65 - 140 | 1 | 20 |
| Naphthalene | | | 2.50 | 3.04 | | mg/Kg | | 121 | 50 - 140 | 8 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *65 - 140* |
| *Dibromofluoromethane (Surr)* | *105* | | *55 - 140* |
| *Toluene-d8 (Surr)* | *100* | | *60 - 140* |

**Lab Sample ID: 440-103180-A-7-B MS**
**Matrix: Solid**
**Analysis Batch: 240305**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 240364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0441 | 0.0453 | | mg/Kg | | 103 | 65 - 130 |
| Ethylbenzene | ND | | 0.0441 | 0.0461 | | mg/Kg | | 105 | 70 - 135 |
| m,p-Xylene | ND | | 0.0441 | 0.0496 | | mg/Kg | | 112 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0441 | 0.0477 | | mg/Kg | | 108 | 55 - 155 |
| o-Xylene | ND | | 0.0441 | 0.0486 | | mg/Kg | | 110 | 65 - 130 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0441 | 0.0539 | | mg/Kg | | 122 | 65 - 140 |
| Toluene | ND | | 0.0441 | 0.0480 | | mg/Kg | | 109 | 70 - 130 |
| 1,2-Dichloroethane | ND | | 0.0441 | 0.0451 | | mg/Kg | | 102 | 60 - 150 |
| Naphthalene | ND | | 0.0441 | 0.0460 | | mg/Kg | | 104 | 40 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *79 - 123* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-103180-A-7-C MSD**
**Matrix: Solid**
**Analysis Batch: 240305**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 240364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0449 | 0.0467 | | mg/Kg | | 104 | 65 - 130 | 3 | 20 |
| Ethylbenzene | ND | | 0.0449 | 0.0466 | | mg/Kg | | 104 | 70 - 135 | 1 | 25 |
| m,p-Xylene | ND | | 0.0449 | 0.0502 | | mg/Kg | | 112 | 70 - 130 | 1 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0449 | 0.0499 | | mg/Kg | | 111 | 55 - 155 | 5 | 35 |
| o-Xylene | ND | | 0.0449 | 0.0493 | | mg/Kg | | 110 | 65 - 130 | 1 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0449 | 0.0553 | | mg/Kg | | 123 | 65 - 140 | 3 | 25 |
| Toluene | ND | | 0.0449 | 0.0485 | | mg/Kg | | 108 | 70 - 130 | 1 | 20 |
| 1,2-Dichloroethane | ND | | 0.0449 | 0.0464 | | mg/Kg | | 103 | 60 - 150 | 3 | 25 |
| Naphthalene | ND | | 0.0449 | 0.0490 | | mg/Kg | | 109 | 40 - 150 | 6 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *79 - 123* |

**Lab Sample ID: MB 440-241306/4**
**Matrix: Water**
**Analysis Batch: 241306**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.50 | | ug/L | | | 03/09/15 09:40 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 03/09/15 09:40 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | | ug/L | | | 03/09/15 09:40 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 03/09/15 09:40 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 03/09/15 09:40 | 1 |
| 1,2-DCA | ND | | 0.50 | | ug/L | | | 03/09/15 09:40 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 03/09/15 09:40 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | | ug/L | | | 03/09/15 09:40 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *80 - 120* | | *03/09/15 09:40* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *76 - 132* | | *03/09/15 09:40* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* | | *03/09/15 09:40* | *1* |

**Lab Sample ID: LCS 440-241306/5**
**Matrix: Water**
**Analysis Batch: 241306**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 25.0 | 25.2 | | ug/L | | 101 | 68 - 130 |
| Ethylbenzene | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| m,p-Xylene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | 25.0 | 25.8 | | ug/L | | 103 | 63 - 131 |
| o-Xylene | 25.0 | 26.9 | | ug/L | | 107 | 70 - 130 |
| Toluene | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 |
| 1,2-DCA | 25.0 | 25.8 | | ug/L | | 103 | 57 - 138 |
| Naphthalene | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-241306/5**
**Matrix: Water**
**Analysis Batch: 241306**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | | | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *107* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *108* | | *80 - 128* |

**Lab Sample ID: 440-103407-A-3 MS**
**Matrix: Water**
**Analysis Batch: 241306**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 25.0 | 25.4 | | ug/L | | 101 | 66 - 130 | | |
| Ethylbenzene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 | | |
| m,p-Xylene | ND | | 25.0 | 27.4 | | ug/L | | 110 | 70 - 133 | | |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 27.2 | | ug/L | | 109 | 70 - 130 | | |
| o-Xylene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 70 - 133 | | |
| Toluene | ND | | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 | | |
| 1,2-DCA | ND | | 25.0 | 26.3 | | ug/L | | 105 | 56 - 146 | | |
| Naphthalene | ND | | 25.0 | 30.3 | | ug/L | | 121 | 60 - 140 | | |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 28.7 | | ug/L | | 115 | 70 - 131 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *106* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *108* | | *80 - 128* |

**Lab Sample ID: 440-103407-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 241306**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 25.0 | 24.6 | | ug/L | | 98 | 66 - 130 | 3 | 20 |
| Ethylbenzene | ND | | 25.0 | 25.6 | | ug/L | | 103 | 70 - 130 | 5 | 20 |
| m,p-Xylene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 70 - 133 | 5 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 | 5 | 25 |
| o-Xylene | ND | | 25.0 | 25.9 | | ug/L | | 104 | 70 - 133 | 5 | 20 |
| Toluene | ND | | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 | 3 | 20 |
| 1,2-DCA | ND | | 25.0 | 25.5 | | ug/L | | 102 | 56 - 146 | 3 | 20 |
| Naphthalene | ND | | 25.0 | 28.9 | | ug/L | | 116 | 60 - 140 | 5 | 30 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 26.4 | | ug/L | | 106 | 70 - 131 | 8 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *106* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 128* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-240030/5**
**Matrix: Solid**
**Analysis Batch: 240030**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/03/15 09:11 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* | | *03/03/15 09:11* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/03/15 09:11* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/03/15 09:11* | *1* |

**Lab Sample ID: LCS 440-240030/7**
**Matrix: Solid**
**Analysis Batch: 240030**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 1.00 | 0.771 | | mg/Kg | | 77 | 60 - 135 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* |

**Lab Sample ID: 440-103093-17 MS**
**Matrix: Solid**
**Analysis Batch: 240030**

**Client Sample ID: SB-12-34.5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.45 | 3.66 | | mg/Kg | | 106 | 55 - 140 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

**Lab Sample ID: 440-103093-17 MSD**
**Matrix: Solid**
**Analysis Batch: 240030**

**Client Sample ID: SB-12-34.5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.45 | 3.42 | | mg/Kg | | 99 | 55 - 140 | 7 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-240032/4**
**Matrix: Solid**
**Analysis Batch: 240032**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/03/15 08:50 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* | | *03/03/15 08:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/03/15 08:50* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/03/15 08:50* | *1* |

**Lab Sample ID: LCS 440-240032/6**
**Matrix: Solid**
**Analysis Batch: 240032**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 1.00 | 0.851 | | mg/Kg | | 85 | 60 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: 440-103093-12 MS**
**Matrix: Solid**
**Analysis Batch: 240032**

**Client Sample ID: SB-12-10**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.42 | 2.70 | | mg/Kg | | 79 | 55 - 140 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: 440-103093-12 MSD**
**Matrix: Solid**
**Analysis Batch: 240032**

**Client Sample ID: SB-12-10**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.42 | 3.54 | F2 | mg/Kg | | 104 | 55 - 140 | 27 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *102* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-240306/4**
**Matrix: Solid**
**Analysis Batch: 240306**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/04/15 08:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* | | *03/04/15 08:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/04/15 08:34* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* | | *03/04/15 08:34* | *1* |

**Lab Sample ID: LCS 440-240306/6**
**Matrix: Solid**
**Analysis Batch: 240306**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 1.00 | 0.739 | | mg/Kg | | 74 | 60 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* |

**Lab Sample ID: MB 440-240310/4**
**Matrix: Solid**
**Analysis Batch: 240310**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 10 | | mg/Kg | | | 03/04/15 08:35 | 100 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *98* | | *55 - 140* | | *03/04/15 08:35* | *100* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *65 - 140* | | *03/04/15 08:35* | *100* |
| *Toluene-d8 (Surr)* | *103* | | *60 - 140* | | *03/04/15 08:35* | *100* |

**Lab Sample ID: LCS 440-240310/7**
**Matrix: Solid**
**Analysis Batch: 240310**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 50.0 | 42.6 | | mg/Kg | | 85 | 60 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *98* | | *55 - 140* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *65 - 140* |
| *Toluene-d8 (Surr)* | *103* | | *60 - 140* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 440-240310/8**
**Matrix: Solid**
**Analysis Batch: 240310**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 50.0 | 42.8 | | mg/Kg | | 86 | 60 - 130 | 0 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *98* | | *55 - 140* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *65 - 140* |
| *Toluene-d8 (Surr)* | *104* | | *60 - 140* |

**Lab Sample ID: 440-103180-A-7-B MS**
**Matrix: Solid**
**Analysis Batch: 240306**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 240364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.04 | 3.27 | | mg/Kg | | 107 | 55 - 140 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *79 - 123* |

**Lab Sample ID: 440-103180-A-7-C MSD**
**Matrix: Solid**
**Analysis Batch: 240306**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 240364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.10 | 3.30 | | mg/Kg | | 107 | 55 - 140 | 1 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *79 - 123* |

**Lab Sample ID: MB 440-240898/4**
**Matrix: Solid**
**Analysis Batch: 240898**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 10 | | mg/Kg | | | 03/06/15 09:50 | 100 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *55 - 140* | | *03/06/15 09:50* | *100* |
| *4-Bromofluorobenzene (Surr)* | *108* | | *65 - 140* | | *03/06/15 09:50* | *100* |
| *Toluene-d8 (Surr)* | *115* | | *60 - 140* | | *03/06/15 09:50* | *100* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-240898/7**
**Matrix: Solid**
**Analysis Batch: 240898**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 50.0 | 48.0 | | mg/Kg | | 96 | 60 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *55 - 140* |
| *4-Bromofluorobenzene (Surr)* | *110* | | *65 - 140* |
| *Toluene-d8 (Surr)* | *112* | | *60 - 140* |

**Lab Sample ID: LCSD 440-240898/8**
**Matrix: Solid**
**Analysis Batch: 240898**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 50.0 | 46.8 | | mg/Kg | | 94 | 60 - 130 | 2 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *55 - 140* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *65 - 140* |
| *Toluene-d8 (Surr)* | *113* | | *60 - 140* |

**Lab Sample ID: MB 440-241307/4**
**Matrix: Water**
**Analysis Batch: 241307**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 50 | | ug/L | | | 03/09/15 09:40 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *76 - 132* | | *03/09/15 09:40* | *1* |
| *4-Bromofluorobenzene (Surr)* | *107* | | *80 - 120* | | *03/09/15 09:40* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* | | *03/09/15 09:40* | *1* |

**Lab Sample ID: LCS 440-241307/6**
**Matrix: Water**
**Analysis Batch: 241307**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 500 | 410 | | ug/L | | 82 | 55 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *104* | | *76 - 132* |
| *4-Bromofluorobenzene (Surr)* | *108* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 440-103407-A-3 MS**
**Matrix: Water**
**Analysis Batch: 241307**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 180 | | 1730 | 1910 | | ug/L | | 101 | 50 - 145 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *76 - 132* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *108* | | *80 - 128* |

**Lab Sample ID: 440-103407-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 241307**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 180 | | 1730 | 1830 | | ug/L | | 96 | 50 - 145 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *106* | | *76 - 132* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 128* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 440-241486/1-A**
**Matrix: Solid**
**Analysis Batch: 241547**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 241486**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 15:41 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/09/15 20:31 | 03/10/15 15:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *84* | | *40 - 140* | *03/09/15 20:31* | *03/10/15 15:41* | *1* |

**Lab Sample ID: LCS 440-241486/2-A**
**Matrix: Solid**
**Analysis Batch: 241547**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 241486**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | | | 66.7 | 51.7 | | mg/Kg | | 78 | 45 - 115 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *82* | | *40 - 140* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 440-241789/1-A**
**Matrix: Solid**
**Analysis Batch: 241964**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 241789**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 08:58 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 08:58 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *92* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 08:58* | *1* |

**Lab Sample ID: LCS 440-241789/2-A**
**Matrix: Solid**
**Analysis Batch: 241964**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 241789**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 66.7 | 56.8 | | mg/Kg | | 85 | 45 - 115 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *87* | | *40 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-240607/1-A ^5**
**Matrix: Solid**
**Analysis Batch: 241284**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 240607**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 2.0 | | mg/Kg | | 03/05/15 08:31 | 03/06/15 20:24 | 5 |

**Lab Sample ID: LCS 440-240607/2-A ^5**
**Matrix: Solid**
**Analysis Batch: 241284**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 240607**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Lead | 50.0 | 49.0 | | mg/Kg | | 98 | 80 - 120 |

**Lab Sample ID: 440-103416-A-1-B MS ^10**
**Matrix: Solid**
**Analysis Batch: 241457**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 240607**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.4 | | 50.0 | 57.9 | | mg/Kg | | 103 | 75 - 125 |

**Lab Sample ID: 440-103416-A-1-C MSD ^10**
**Matrix: Solid**
**Analysis Batch: 241457**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 240607**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 6.4 | | 50.0 | 52.3 | | mg/Kg | | 92 | 75 - 125 | 10 | 20 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 440-240677/1-A ^5**
**Matrix: Solid**
**Analysis Batch: 241461**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 240677**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 2.0 | | mg/Kg | | 03/05/15 11:16 | 03/09/15 16:36 | 5 |

**Lab Sample ID: LCS 440-240677/2-A ^5**
**Matrix: Solid**
**Analysis Batch: 241461**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 240677**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Lead | 49.8 | 49.8 | | mg/Kg | | 100 | 80 - 120 |

**Lab Sample ID: 440-103093-23 MS**
**Matrix: Solid**
**Analysis Batch: 241461**

**Client Sample ID: SB-14-15**
**Prep Type: Total/NA**
**Prep Batch: 240677**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.6 | | 49.0 | 52.6 | | mg/Kg | | 92 | 75 - 125 |

**Lab Sample ID: 440-103093-23 MSD**
**Matrix: Solid**
**Analysis Batch: 241461**

**Client Sample ID: SB-14-15**
**Prep Type: Total/NA**
**Prep Batch: 240677**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.6 | | 49.8 | 49.8 | | mg/Kg | | 85 | 75 - 125 | 5 | 20 |

## GC/MS VOA

### Analysis Batch: 240029

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-17 | SB-12-34.5 | Total/NA | Solid | 8260B | |
| 440-103093-17 MS | SB-12-34.5 | Total/NA | Solid | 8260B | |
| 440-103093-17 MSD | SB-12-34.5 | Total/NA | Solid | 8260B | |
| 440-103093-21 | SB-14-5 | Total/NA | Solid | 8260B | |
| 440-103093-22 | SB-14-10 | Total/NA | Solid | 8260B | |
| 440-103093-24 | SB-14-20 | Total/NA | Solid | 8260B | |
| 440-103093-25 | SB-14-25 | Total/NA | Solid | 8260B | |
| 440-103093-26 | SB-14-30 | Total/NA | Solid | 8260B | |
| 440-103093-28 | SB-11-5 | Total/NA | Solid | 8260B | |
| 440-103093-29 | SB-11-10 | Total/NA | Solid | 8260B | |
| 440-103093-30 | SB-11-15 | Total/NA | Solid | 8260B | |
| 440-103093-31 | SB-11-20 | Total/NA | Solid | 8260B | |
| 440-103093-32 | SB-11-25 | Total/NA | Solid | 8260B | |
| 440-103093-33 | SB-11-30 | Total/NA | Solid | 8260B | |
| 440-103093-34 | SB-11-34.5 | Total/NA | Solid | 8260B | |
| LCS 440-240029/6 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-240029/5 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 240030

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-17 | SB-12-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-17 MS | SB-12-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-17 MSD | SB-12-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-21 | SB-14-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-22 | SB-14-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-24 | SB-14-20 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-25 | SB-14-25 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-26 | SB-14-30 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-28 | SB-11-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-29 | SB-11-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-30 | SB-11-15 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-31 | SB-11-20 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-32 | SB-11-25 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-33 | SB-11-30 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-34 | SB-11-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCS 440-240030/7 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-240030/5 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

## GC/MS VOA (Continued)

### Analysis Batch: 240031

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-1 | SB-9-5 | Total/NA | Solid | 8260B | |
| 440-103093-2 | SB-9-10 | Total/NA | Solid | 8260B | |
| 440-103093-3 | SB-9-14.5 | Total/NA | Solid | 8260B | |
| 440-103093-4 | SB-9-19.5 | Total/NA | Solid | 8260B | |
| 440-103093-5 | SB-9-24.5 | Total/NA | Solid | 8260B | |
| 440-103093-6 | SB-9-27.5 | Total/NA | Solid | 8260B | |
| 440-103093-7 | SB-9-30 | Total/NA | Solid | 8260B | |
| 440-103093-8 | SB-9-34.5 | Total/NA | Solid | 8260B | |
| 440-103093-9 | SB-9-39.5 | Total/NA | Solid | 8260B | |
| 440-103093-10 | SB-9-44.5 | Total/NA | Solid | 8260B | |
| 440-103093-11 | SB-12-5 | Total/NA | Solid | 8260B | |
| 440-103093-12 | SB-12-10 | Total/NA | Solid | 8260B | |
| 440-103093-12 MS | SB-12-10 | Total/NA | Solid | 8260B | |
| 440-103093-12 MSD | SB-12-10 | Total/NA | Solid | 8260B | |
| 440-103093-13 | SB-12-15 | Total/NA | Solid | 8260B | |
| 440-103093-14 | SB-12-20 | Total/NA | Solid | 8260B | |
| 440-103093-15 | SB-12-25 | Total/NA | Solid | 8260B | |
| 440-103093-16 | SB-12-30 | Total/NA | Solid | 8260B | |
| LCS 440-240031/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-240031/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 240032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-1 | SB-9-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-2 | SB-9-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-6 | SB-9-27.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-7 | SB-9-30 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-9 | SB-9-39.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-10 | SB-9-44.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-11 | SB-12-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-12 | SB-12-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-12 MS | SB-12-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-12 MSD | SB-12-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-13 | SB-12-15 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-14 | SB-12-20 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-15 | SB-12-25 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-16 | SB-12-30 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCS 440-240032/6 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-240032/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

## GC/MS VOA (Continued)

### Prep Batch: 240195

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-3 | SB-9-14.5 | Total/NA | Solid | 5030B | |
| 440-103093-4 | SB-9-19.5 | Total/NA | Solid | 5030B | |
| 440-103093-23 | SB-14-15 | Total/NA | Solid | 5030B | |

### Analysis Batch: 240305

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-27 | SB-14-34.5 | Total/NA | Solid | 8260B | |
| 440-103180-A-7-B MS | Matrix Spike | Total/NA | Solid | 8260B | 240364 |
| 440-103180-A-7-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B | 240364 |
| LCS 440-240305/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-240305/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 240306

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-5 | SB-9-24.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-8 | SB-9-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103093-27 | SB-14-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103180-A-7-B MS | Matrix Spike | Total/NA | Solid | 8260B/CA_LUFT MS | 240364 |
| 440-103180-A-7-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B/CA_LUFT MS | 240364 |
| LCS 440-240306/6 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-240306/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

### Analysis Batch: 240309

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-23 | SB-14-15 | Total/NA | Solid | 8260B | 240195 |
| LCS 440-240309/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 440-240309/6 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 440-240309/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 240310

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-4 | SB-9-19.5 | Total/NA | Solid | 8260B/CA_LUFT MS | 240195 |
| 440-103093-23 | SB-14-15 | Total/NA | Solid | 8260B/CA_LUFT MS | 240195 |
| LCS 440-240310/7 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCSD 440-240310/8 | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-240310/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

### Prep Batch: 240364

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103180-A-7-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 440-103180-A-7-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

## GC/MS VOA (Continued)

### Analysis Batch: 240898

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-3 | SB-9-14.5 | Total/NA | Solid | 8260B/CA_LUFT MS | 240195 |
| LCS 440-240898/7 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCSD 440-240898/8 | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-240898/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

### Analysis Batch: 241306

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-18 | SB-12-26.5 | Total/NA | Water | 8260B | |
| 440-103093-19 | SB-9-26.5 | Total/NA | Water | 8260B | |
| 440-103093-20 | SB-14-26 | Total/NA | Water | 8260B | |
| 440-103093-35 | SB-11-35 | Total/NA | Water | 8260B | |
| 440-103407-A-3 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 440-103407-A-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| LCS 440-241306/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 440-241306/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 241307

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-18 | SB-12-26.5 | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103093-19 | SB-9-26.5 | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103093-20 | SB-14-26 | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103093-35 | SB-11-35 | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103407-A-3 MS | Matrix Spike | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103407-A-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 440-241307/6 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| MB 440-241307/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT MS | |

## GC Semi VOA

### Prep Batch: 241486

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-1 | SB-9-5 | Total/NA | Solid | 3546 | |
| 440-103093-2 | SB-9-10 | Total/NA | Solid | 3546 | |
| 440-103093-3 | SB-9-14.5 | Total/NA | Solid | 3546 | |
| 440-103093-4 | SB-9-19.5 | Total/NA | Solid | 3546 | |
| 440-103093-5 | SB-9-24.5 | Total/NA | Solid | 3546 | |
| 440-103093-6 | SB-9-27.5 | Total/NA | Solid | 3546 | |
| 440-103093-7 | SB-9-30 | Total/NA | Solid | 3546 | |
| 440-103093-8 | SB-9-34.5 | Total/NA | Solid | 3546 | |
| 440-103093-9 | SB-9-39.5 | Total/NA | Solid | 3546 | |
| 440-103093-10 | SB-9-44.5 | Total/NA | Solid | 3546 | |

## GC Semi VOA (Continued)

### Prep Batch: 241486 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-11 | SB-12-5 | Total/NA | Solid | 3546 | |
| 440-103093-12 | SB-12-10 | Total/NA | Solid | 3546 | |
| 440-103093-13 | SB-12-15 | Total/NA | Solid | 3546 | |
| 440-103093-14 | SB-12-20 | Total/NA | Solid | 3546 | |
| 440-103093-15 | SB-12-25 | Total/NA | Solid | 3546 | |
| 440-103093-16 | SB-12-30 | Total/NA | Solid | 3546 | |
| 440-103093-17 | SB-12-34.5 | Total/NA | Solid | 3546 | |
| 440-103093-21 | SB-14-5 | Total/NA | Solid | 3546 | |
| LCS 440-241486/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 440-241486/1-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 241547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-1 | SB-9-5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-2 | SB-9-10 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-3 | SB-9-14.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-5 | SB-9-24.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-6 | SB-9-27.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-7 | SB-9-30 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-8 | SB-9-34.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-9 | SB-9-39.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-10 | SB-9-44.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-11 | SB-12-5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-12 | SB-12-10 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-13 | SB-12-15 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-15 | SB-12-25 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-16 | SB-12-30 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-17 | SB-12-34.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-21 | SB-14-5 | Total/NA | Solid | 8015B | 241486 |
| LCS 440-241486/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 241486 |
| MB 440-241486/1-A | Method Blank | Total/NA | Solid | 8015B | 241486 |

### Prep Batch: 241789

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-22 | SB-14-10 | Total/NA | Solid | 3546 | |
| 440-103093-23 | SB-14-15 | Total/NA | Solid | 3546 | |
| 440-103093-24 | SB-14-20 | Total/NA | Solid | 3546 | |
| 440-103093-25 | SB-14-25 | Total/NA | Solid | 3546 | |
| 440-103093-26 | SB-14-30 | Total/NA | Solid | 3546 | |
| 440-103093-27 | SB-14-34.5 | Total/NA | Solid | 3546 | |
| 440-103093-28 | SB-11-5 | Total/NA | Solid | 3546 | |
| 440-103093-29 | SB-11-10 | Total/NA | Solid | 3546 | |
| 440-103093-30 | SB-11-15 | Total/NA | Solid | 3546 | |
| 440-103093-31 | SB-11-20 | Total/NA | Solid | 3546 | |
| 440-103093-32 | SB-11-25 | Total/NA | Solid | 3546 | |
| 440-103093-33 | SB-11-30 | Total/NA | Solid | 3546 | |
| 440-103093-34 | SB-11-34.5 | Total/NA | Solid | 3546 | |
| LCS 440-241789/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 440-241789/1-A | Method Blank | Total/NA | Solid | 3546 | |

## GC Semi VOA (Continued)

### Analysis Batch: 241964

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-22 | SB-14-10 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-24 | SB-14-20 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-25 | SB-14-25 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-26 | SB-14-30 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-27 | SB-14-34.5 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-28 | SB-11-5 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-29 | SB-11-10 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-30 | SB-11-15 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-31 | SB-11-20 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-32 | SB-11-25 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-33 | SB-11-30 | Total/NA | Solid | 8015B | 241789 |
| 440-103093-34 | SB-11-34.5 | Total/NA | Solid | 8015B | 241789 |
| LCS 440-241789/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 241789 |
| MB 440-241789/1-A | Method Blank | Total/NA | Solid | 8015B | 241789 |

### Analysis Batch: 241967

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-4 | SB-9-19.5 | Total/NA | Solid | 8015B | 241486 |
| 440-103093-14 | SB-12-20 | Total/NA | Solid | 8015B | 241486 |

### Analysis Batch: 242226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-23 | SB-14-15 | Total/NA | Solid | 8015B | 241789 |

## Metals

### Prep Batch: 240607

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-1 | SB-9-5 | Total/NA | Solid | 3050B | |
| 440-103093-2 | SB-9-10 | Total/NA | Solid | 3050B | |
| 440-103093-3 | SB-9-14.5 | Total/NA | Solid | 3050B | |
| 440-103093-4 | SB-9-19.5 | Total/NA | Solid | 3050B | |
| 440-103093-5 | SB-9-24.5 | Total/NA | Solid | 3050B | |
| 440-103093-6 | SB-9-27.5 | Total/NA | Solid | 3050B | |
| 440-103093-7 | SB-9-30 | Total/NA | Solid | 3050B | |
| 440-103093-8 | SB-9-34.5 | Total/NA | Solid | 3050B | |
| 440-103093-9 | SB-9-39.5 | Total/NA | Solid | 3050B | |
| 440-103093-10 | SB-9-44.5 | Total/NA | Solid | 3050B | |
| 440-103093-11 | SB-12-5 | Total/NA | Solid | 3050B | |
| 440-103093-12 | SB-12-10 | Total/NA | Solid | 3050B | |
| 440-103093-13 | SB-12-15 | Total/NA | Solid | 3050B | |
| 440-103093-14 | SB-12-20 | Total/NA | Solid | 3050B | |
| 440-103093-15 | SB-12-25 | Total/NA | Solid | 3050B | |
| 440-103093-16 | SB-12-30 | Total/NA | Solid | 3050B | |
| 440-103093-17 | SB-12-34.5 | Total/NA | Solid | 3050B | |
| 440-103093-21 | SB-14-5 | Total/NA | Solid | 3050B | |
| 440-103093-22 | SB-14-10 | Total/NA | Solid | 3050B | |
| 440-103416-A-1-B MS ^10 | Matrix Spike | Total/NA | Solid | 3050B | |
| 440-103416-A-1-C MSD ^10 | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| LCS 440-240607/2-A ^5 | Lab Control Sample | Total/NA | Solid | 3050B | |

## Metals (Continued)

### Prep Batch: 240607 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 440-240607/1-A ^5 | Method Blank | Total/NA | Solid | 3050B | |

### Prep Batch: 240677

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-23 | SB-14-15 | Total/NA | Solid | 3050B | |
| 440-103093-23 MS | SB-14-15 | Total/NA | Solid | 3050B | |
| 440-103093-23 MSD | SB-14-15 | Total/NA | Solid | 3050B | |
| 440-103093-24 | SB-14-20 | Total/NA | Solid | 3050B | |
| 440-103093-25 | SB-14-25 | Total/NA | Solid | 3050B | |
| 440-103093-26 | SB-14-30 | Total/NA | Solid | 3050B | |
| 440-103093-27 | SB-14-34.5 | Total/NA | Solid | 3050B | |
| 440-103093-28 | SB-11-5 | Total/NA | Solid | 3050B | |
| 440-103093-29 | SB-11-10 | Total/NA | Solid | 3050B | |
| 440-103093-30 | SB-11-15 | Total/NA | Solid | 3050B | |
| 440-103093-31 | SB-11-20 | Total/NA | Solid | 3050B | |
| 440-103093-32 | SB-11-25 | Total/NA | Solid | 3050B | |
| 440-103093-33 | SB-11-30 | Total/NA | Solid | 3050B | |
| 440-103093-34 | SB-11-34.5 | Total/NA | Solid | 3050B | |
| LCS 440-240677/2-A ^5 | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 440-240677/1-A ^5 | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 241284

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-1 | SB-9-5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-2 | SB-9-10 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-3 | SB-9-14.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-4 | SB-9-19.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-5 | SB-9-24.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-6 | SB-9-27.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-7 | SB-9-30 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-8 | SB-9-34.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-9 | SB-9-39.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-10 | SB-9-44.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-11 | SB-12-5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-13 | SB-12-15 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-14 | SB-12-20 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-15 | SB-12-25 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-16 | SB-12-30 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-17 | SB-12-34.5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-21 | SB-14-5 | Total/NA | Solid | 6010B | 240607 |
| 440-103093-22 | SB-14-10 | Total/NA | Solid | 6010B | 240607 |
| LCS 440-240607/2-A ^5 | Lab Control Sample | Total/NA | Solid | 6010B | 240607 |
| MB 440-240607/1-A ^5 | Method Blank | Total/NA | Solid | 6010B | 240607 |

### Analysis Batch: 241457

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103416-A-1-B MS ^10 | Matrix Spike | Total/NA | Solid | 6010B | 240607 |
| 440-103416-A-1-C MSD ^10 | Matrix Spike Duplicate | Total/NA | Solid | 6010B | 240607 |

## Metals (Continued)

### Analysis Batch: 241460

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-12 | SB-12-10 | Total/NA | Solid | 6010B | 240607 |

### Analysis Batch: 241461

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103093-23 | SB-14-15 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-23 MS | SB-14-15 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-23 MSD | SB-14-15 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-24 | SB-14-20 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-25 | SB-14-25 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-26 | SB-14-30 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-27 | SB-14-34.5 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-28 | SB-11-5 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-29 | SB-11-10 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-30 | SB-11-15 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-31 | SB-11-20 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-32 | SB-11-25 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-33 | SB-11-30 | Total/NA | Solid | 6010B | 240677 |
| 440-103093-34 | SB-11-34.5 | Total/NA | Solid | 6010B | 240677 |
| LCS 440-240677/2-A ^5 | Lab Control Sample | Total/NA | Solid | 6010B | 240677 |
| MB 440-240677/1-A ^5 | Method Blank | Total/NA | Solid | 6010B | 240677 |

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| F2 | MS/MSD RPD exceeds control limits |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103093-1

## Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alaska | State Program | 10 | CA01531 | 06-30-15 |
| Arizona | State Program | 9 | AZ0671 | 10-13-15 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-15 |
| New Mexico | State Program | 6 | N/A | 01-29-15 * |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-15 * |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 06-06-15 |

* Certification renewal pending - certification considered valid.

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: Katherine Ward 240503-15.04-xxxx

INCIDENT # (ENV SERVICES): 98995745

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2-26-15

PAGE: 1 of 4

PO #:

SAP #: 135685

| | | | |
|---|---|---|---|
| SAMPLING COMPANY: Conestoga-Rovers & Associates | LOG CODE: CRAW | SITE ADDRESS: Street and City: 6039 College Avenue, Oakland | State: CA |
| GLOBAL ID NO.: T10000005056 | | | |
| ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608 | EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville | PHONE NO.: 510-420-3343 | E-MAIL: shell em edf@craworld.com |
| CONSULTANT PROJECT NO.: 240503-15.04-xxxx | | | |
| PROJECT CONTACT (Hardcopy or PDF Report to): Katherine Ward | SAMPLER NAME(S) (Print): Mike Lombard | LAB USE ONLY | |
| TELEPHONE: 510-420-3367 | FAX: 510-420-9170 | E-MAIL: kward@craworld.com | |

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@craworld.com

Encore samples have a hold time of 48 hours

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH-GRO, (8260B) | TPHd, (8015M) | TPHg (8260B) | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: (8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SB-9-5 | 2-25-15 | 0753 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-10 | | 0807 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-14.5 | | 0814 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-19.5 | | 0823 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-24.5 | | 0917 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-27.5 | | 0953 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-30 | | 1120 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-34.5 | | 1125 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-39.5 | | 1155 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| | SB-9-44.5 | | 1225 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature) | Date: 2-27-15 | Time: 1031 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: 2-27-15 | Time: 1558 |
| Relinquished by: (Signature) Tom Muller 2-27-15 | Received by: (Signature) TAI | Date: 02/28/15 | Time: 11:00 |

4.2/3.7° IR-64
3.8/3.3°

05/2/08 Revision

440-103093 Chain of Custody

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4/28/2015

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

**Please Check Appropriate Box:**
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Katherine Ward 240503-15.04-xxxx
INCIDENT # (ENV SERVICES): 98995745
☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #: 135685
DATE: 2-26-15
PAGE: 2 of 4

SAMPLING COMPANY: Conestoga-Rovers & Associates
LOG CODE: CRAW
SITE ADDRESS: Street and City: 6039 College Avenue, Oakland
State: CA
GLOBAL ID NO.: T10000005056
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608
EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville
PHONE NO.: 510-420-3343
E-MAIL: shell em edf@craworld.com
CONSULTANT PROJECT NO.: 240503-15.04-xxxx
PROJECT CONTACT (Hardcopy or PDF Report to): Katherine Ward
TELEPHONE: 510-420-3367
FAX: 510-420-9170
E-MAIL: kward@craworld.com
SAMPLER NAME(S) (Print): Mike Lombard
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS).
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
Copy of final report to Shell.Lab.Billing@craworld.com
Encore samples have a hold time of 48 hours

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, (8260B) | TPHd, (8015M) | TPHg (8260B) | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: _____(8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | SB-12-5 | 2-25-15 | 1355 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 12 | SB-12-10 | | 1404 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 13 | SB-12-15 | | 1415 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 14 | SB-12-20 | | 1430 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 15 | SB-12-25 | | 1500 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 16 | SB-12-30 | | 1556 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 17 | SB-12-34.5 | | 1555 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 18 | SB-12-26.5 | | 1515 | ~~SO~~ W | X | | | | | 4 | | | X | | | X | | | | X | X | | |
| 19 | SB-9-26.5 | | 1100 | W | X | | | | | 4 | | | X | | | X | | | | X | X | | |
| 20 | SB-14-26 | 2-26-15 | 0910 | W | X | | | | | 4 | | | X | | | X | | | | X | X | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date | Time |
|---|---|---|---|
| | | 2-27-15 | 1031 |
| | | 2-27-15 | 1558 |
| 2-27-15 1600 | | | |

05/2/08 Revision

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4/28/2015

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: Katherine Ward 240503-15.04-xxxx

PO #:

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 4 5

☐ CHECK IF NO INCIDENT # APPLIES

SAP #: 1 3 5 6 8 5

DATE: 2-26-15

PAGE: 3 of 4

| | | | |
|---|---|---|---|
| SAMPLING COMPANY: Conestoga-Rovers & Associates | LOG CODE: CRAW | SITE ADDRESS: Street and City: 6039 College Avenue, Oakland | State: CA |
| GLOBAL ID NO.: T10000005056 | | | |
| ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608 | | EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville | PHONE NO.: 510-420-3343 |
| E-MAIL: shell em edf@craworld.com | CONSULTANT PROJECT NO.: 240503-15.04-xxxx | | |
| PROJECT CONTACT (Hardcopy or PDF Report to): Katherine Ward | | SAMPLER NAME(S) (Print): Mike Lombard | LAB USE ONLY |
| TELEPHONE: 510-420-3367 | FAX: 510-420-9170 | E-MAIL: kward@craworld.com | |

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@craworld.com

Encore samples have a hold time of 48 hours

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, (8260B) | TPHd, (8015M) | TPHg (8260B) | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: _____ (8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | SB-14-5 | 2-26-15 | 0735 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 22 | SB-14-10 | | 0740 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 23 | SB-14-15 | | 0745 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 24 | SB-14-20 | | 0755 | SO | | | | | | 1 | | X | X | | X | | | | | 1 | X | X | |
| 25 | SB-14-25 | | 0825 | SO | | | | | | 1 | | X | X | | X | | | | | 1 | X | X | |
| 26 | SB-14-30 | | 0945 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 27 | SB-14-34.5 | ↓ | 0950 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |

| Relinquished by: (Signature) | Received by: (Signature) | Date | Time |
|---|---|---|---|
| | | 2-27-15 | 1031 |
| | | 2-27-15 | 1558 |
| 2-27-15 1600 | | | |

05/2/06 Revision

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4/28/2015

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Katherine Ward 240503-15.04-xxxx

PO #:

INCIDENT # (ENV SERVICES): 98995745

SAP #: 135685

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2-26-15

PAGE: 4 of 4

| SAMPLING COMPANY | LOG CODE |
|---|---|
| Conestoga-Rovers & Associates | CRAW |

| SITE ADDRESS: Street and City | State | GLOBAL ID NO: |
|---|---|---|
| 6039 College Avenue, Oakland | CA | T10000005056 |

| ADDRESS | EDF DELIVERABLE TO (Name, Company, Office Location) | PHONE NO. | E-MAIL | CONSULTANT PROJECT NO |
|---|---|---|---|---|
| 5900 Hollis Street, Suite A, Emeryville, CA 94608 | Anni Kreml, CRA, Emeryville | 510-420-3343 | shell.em.edf@craworld.com | 240503-15.04-xxxx |

| PROJECT CONTACT (Hardcopy or PDF Report to) | TELEPHONE | FAX | E-MAIL |
|---|---|---|---|
| Katherine Ward | 510-420-3367 | 510-420-9170 | kward@craworld.com |

SAMPLER NAME(S) (Print): Mike Lombard

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

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SPECIAL INSTRUCTIONS OR NOTES :

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Encore samples have a hold time of 48 hours

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SB-11-5 | 2-26-15 | 1030 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 02 | SB-11-10 | | 1036 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 03 | SB-11-15 | | 1043 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 04 | SB-11-20 | | 1052 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 05 | SB-11-25 | | 1120 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 06 | SB-11-30 | | 1535 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 07 | SB-11-34.5 | | 1550 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| 08 | SB-11-35 | ↓ | 1650 | W | X | | | | | 4 | | | X | | X | | | | | X | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date | Time |
|---|---|---|---|
| | | 2-27-15 | 1031 |
| | | 2-27-15 | 1558 |
| 2-27-15 1600 | | | |

05/2/08 Revision

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4/28/2015

# Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-103093-1

**Login Number: 103093**

**List Source: TestAmerica Irvine**

**List Number: 1**

**Creator: Kim, Guerry**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-103385-1
Client Project/Site: 6039 College Ave., Oakland
Revision: 1

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Ms. Katherine Ward

Heather Clark

*Authorized for release by:*
*4/28/2015 10:49:33 AM*

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 440-103385-1 | SB-10-5 | Solid | 02/27/15 07:50 | 03/03/15 09:35 |
| 440-103385-2 | SB-10-10 | Solid | 02/27/15 08:10 | 03/03/15 09:35 |
| 440-103385-3 | SB-10-15 | Solid | 02/27/15 08:15 | 03/03/15 09:35 |
| 440-103385-4 | SB-10-20 | Solid | 02/27/15 08:20 | 03/03/15 09:35 |
| 440-103385-5 | SB-10-25 | Solid | 02/27/15 08:28 | 03/03/15 09:35 |
| 440-103385-6 | SB-10-30 | Solid | 02/27/15 09:03 | 03/03/15 09:35 |
| 440-103385-7 | SB-10-34.5 | Solid | 02/27/15 09:40 | 03/03/15 09:35 |
| 440-103385-8 | SB-13-5 | Solid | 02/27/15 10:08 | 03/03/15 09:35 |
| 440-103385-9 | SB-13-10 | Solid | 02/27/15 10:13 | 03/03/15 09:35 |
| 440-103385-10 | SB-13-15 | Solid | 02/27/15 10:19 | 03/03/15 09:35 |
| 440-103385-11 | SB-13-20 | Solid | 02/27/15 10:32 | 03/03/15 09:35 |
| 440-103385-12 | SB-13-25 | Solid | 02/27/15 11:28 | 03/03/15 09:35 |
| 440-103385-13 | SB-13-30 | Solid | 02/27/15 11:43 | 03/03/15 09:35 |
| 440-103385-14 | SB-13-34.5 | Solid | 02/27/15 11:50 | 03/03/15 09:35 |
| 440-103385-15 | SB-10-35W | Water | 02/27/15 12:05 | 03/03/15 09:35 |
| 440-103385-16 | SB-13-28W | Water | 02/27/15 12:08 | 03/03/15 09:35 |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

## Job ID: 440-103385-1

### Laboratory: TestAmerica Irvine

**Narrative**

**Job Narrative**
**440-103385-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 3/3/2015 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

**GC/MS VOA**
Method(s) 8260B: Surrogate: Toluene-d8 recovery for the following sample(s) was outside the upper control limit: SB-13-15 (440-103385-10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: SB-10-15 (440-103385-3), SB-13-15 (440-103385-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260B/CA_LUFTMS: Surrogate recovery for the following sample was outside control limits: SB-13-15 (440-103385-10). Evidence of matrix interference due to non-target analytes is present; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
Method(s) 8015B: The MS/MSD were diluted due to abundance of target analytes: (LCS 440-241789/2-A). As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported. The batch was accepted based on the LCS recovery.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix: SB-10-10 (440-103385-2), SB-10-5 (440-103385-1). Elevated reporting limits (RLs) are provided.

BATCH# 241789
METHOD 3546 - 8015B - DIESEL - SOILS

Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix: SB-10-20 (440-103385-4), SB-10-25 (440-103385-5), SB-10-30 (440-103385-6), SB-10-34.5 (440-103385-7), SB-13-10 (440-103385-9), SB-13-15 (440-103385-10), SB-13-25 (440-103385-12), SB-13-34.5 (440-103385-14), SB-13-5 (440-103385-8). Elevated reporting limits (RLs) are provided.

BATCH# 242352
METHOD 3546 - 8015B - DIESEL/JET FUEL - SOILS

Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix: SB-10-15 (440-103385-3), SB-13-20 (440-103385-11). Elevated reporting limits (RLs) are provided.

BATCH# 242364
METHOD 3546 - 8015B - DIESEL - SOILS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**VOA Prep**

## Job ID: 440-103385-1 (Continued)

### Laboratory: TestAmerica Irvine (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

## Client Sample ID: SB-10-5

**Lab Sample ID: 440-103385-1**

**Date Collected: 02/27/15 07:50**
**Matrix: Solid**
**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.099 | | mg/Kg | | | 03/06/15 22:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* | | *03/06/15 22:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *112* | | *79 - 120* | | *03/06/15 22:21* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/06/15 22:21* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 22:21 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/06/15 22:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *79 - 120* | | *03/06/15 22:21* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* | | *03/06/15 22:21* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/06/15 22:21* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **45** | | 9.8 | | mg/Kg | | 03/10/15 18:37 | 03/11/15 22:47 | 1 |
| **ORO (C29-C40)** | **13** | | 9.8 | | mg/Kg | | 03/10/15 18:37 | 03/11/15 22:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *76* | | *40 - 140* | *03/10/15 18:37* | *03/11/15 22:47* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.1** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:15 | 5 |

## Client Sample ID: SB-10-10

**Lab Sample ID: 440-103385-2**

**Date Collected: 02/27/15 08:10**
**Matrix: Solid**
**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **4.9** | | 0.20 | | mg/Kg | | | 03/07/15 06:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *111* | | *60 - 120* | | *03/07/15 06:20* | *1* |
| *4-Bromofluorobenzene (Surr)* | *112* | | *79 - 120* | | *03/07/15 06:20* | *1* |
| *Toluene-d8 (Surr)* | *115* | | *79 - 123* | | *03/07/15 06:20* | *1* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

## Client Sample ID: SB-10-10

**Lab Sample ID: 440-103385-2**

**Date Collected: 02/27/15 08:10**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0039 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| Benzene | ND | | 0.0039 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| Ethylbenzene | ND | | 0.0039 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0039 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| m,p-Xylene | ND | | 0.0078 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0098 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| **Naphthalene** | **0.027** | | 0.0098 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| o-Xylene | ND | | 0.0039 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| Toluene | ND | | 0.0039 | | mg/Kg | | | 03/07/15 06:20 | 1 |
| Xylenes, Total | ND | | 0.0078 | | mg/Kg | | | 03/07/15 06:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *79 - 120* | | *03/07/15 06:20* | *1* |
| *Dibromofluoromethane (Surr)* | *111* | | *60 - 120* | | *03/07/15 06:20* | *1* |
| *Toluene-d8 (Surr)* | *115* | | *79 - 123* | | *03/07/15 06:20* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **20** | | 9.8 | | mg/Kg | | 03/10/15 18:37 | 03/12/15 01:01 | 1 |
| ORO (C29-C40) | ND | | 9.8 | | mg/Kg | | 03/10/15 18:37 | 03/12/15 01:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *66* | | *40 - 140* | *03/10/15 18:37* | *03/12/15 01:01* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.2** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:21 | 5 |

## Client Sample ID: SB-10-15

**Lab Sample ID: 440-103385-3**

**Date Collected: 02/27/15 08:15**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **640** | | 20 | | mg/Kg | | 03/09/15 13:46 | 03/10/15 13:14 | 200 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *55 - 140* | *03/09/15 13:46* | *03/10/15 13:14* | *200* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *65 - 140* | *03/09/15 13:46* | *03/10/15 13:14* | *200* |
| *Toluene-d8 (Surr)* | *112* | | *60 - 140* | *03/09/15 13:46* | *03/10/15 13:14* | *200* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0099 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| Benzene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| Ethylbenzene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0099 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| m,p-Xylene | ND | | 0.020 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.025 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| Naphthalene | ND | | 0.025 | | mg/Kg | | | 03/10/15 04:55 | 1 |

## Client Sample ID: SB-10-15

**Lab Sample ID: 440-103385-3**

**Date Collected: 02/27/15 08:15**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| Toluene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 04:55 | 1 |
| Xylenes, Total | ND | | 0.020 | | mg/Kg | | | 03/10/15 04:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *79 - 120* | | *03/10/15 04:55* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *60 - 120* | | *03/10/15 04:55* | *1* |
| *Toluene-d8 (Surr)* | *116* | | *79 - 123* | | *03/10/15 04:55* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **63** | | 9.9 | | mg/Kg | | 03/12/15 22:52 | 03/13/15 10:17 | 1 |
| ORO (C29-C40) | ND | | 9.9 | | mg/Kg | | 03/12/15 22:52 | 03/13/15 10:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *91* | | *40 - 140* | *03/12/15 22:52* | *03/13/15 10:17* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.5** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:23 | 5 |

## Client Sample ID: SB-10-20

**Lab Sample ID: 440-103385-4**

**Date Collected: 02/27/15 08:20**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **0.88** | | 0.10 | | mg/Kg | | | 03/07/15 01:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 01:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* | | *03/07/15 01:23* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/07/15 01:23* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:23 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 01:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* | | *03/07/15 01:23* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 01:23* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/07/15 01:23* | *1* |

## Client Sample ID: SB-10-20

**Lab Sample ID: 440-103385-4**

**Date Collected: 02/27/15 08:20**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 24 | | 9.9 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 12:42 | 1 |
| ORO (C29-C40) | ND | | 9.9 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 12:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *68* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 12:42* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 8.4 | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:25 | 5 |

## Client Sample ID: SB-10-25

**Lab Sample ID: 440-103385-5**

**Date Collected: 02/27/15 08:28**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 01:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 01:53* | *1* |
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* | | *03/07/15 01:53* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/07/15 01:53* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 01:53 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 01:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* | | *03/07/15 01:53* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 01:53* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/07/15 01:53* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.7 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:02 | 1 |
| ORO (C29-C40) | ND | | 9.7 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *71* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 13:02* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.4 | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:27 | 5 |

## Client Sample ID: SB-10-30

**Lab Sample ID: 440-103385-6**

**Date Collected: 02/27/15 09:03**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 02:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *115* | | *60 - 120* | | *03/07/15 02:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/07/15 02:23* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/07/15 02:23* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:23 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 02:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/07/15 02:23* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *60 - 120* | | *03/07/15 02:23* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/07/15 02:23* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.8 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:21 | 1 |
| ORO (C29-C40) | ND | | 9.8 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *86* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 13:21* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.1** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:28 | 5 |

## Client Sample ID: SB-10-34.5

**Lab Sample ID: 440-103385-7**

**Date Collected: 02/27/15 09:40**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 02:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 02:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *115* | | *79 - 120* | | *03/07/15 02:52* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 02:52* | *1* |

## Client Sample ID: SB-10-34.5

**Lab Sample ID: 440-103385-7**

**Date Collected: 02/27/15 09:40**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 02:52 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 02:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *79 - 120* | | *03/07/15 02:52* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 02:52* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 02:52* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.6 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:42 | 1 |
| ORO (C29-C40) | ND | | 9.6 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *83* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 13:42* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.8** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:35 | 5 |

## Client Sample ID: SB-13-5

**Lab Sample ID: 440-103385-8**

**Date Collected: 02/27/15 10:08**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 03:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *116* | | *60 - 120* | | *03/07/15 03:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *118* | | *79 - 120* | | *03/07/15 03:23* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/07/15 03:23* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:23 | 1 |

## Client Sample ID: SB-13-5

**Lab Sample ID: 440-103385-8**

**Date Collected: 02/27/15 10:08**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:23 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 03:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *79 - 120* | | *03/07/15 03:23* | *1* |
| *Dibromofluoromethane (Surr)* | *116* | | *60 - 120* | | *03/07/15 03:23* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* | | *03/07/15 03:23* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **35** | | 9.5 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 14:02 | 1 |
| **ORO (C29-C40)** | **24** | | 9.5 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 14:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *66* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 14:02* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **9.0** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:37 | 5 |

## Client Sample ID: SB-13-10

**Lab Sample ID: 440-103385-9**

**Date Collected: 02/27/15 10:13**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 03:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* | | *03/07/15 03:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *115* | | *79 - 120* | | *03/07/15 03:52* | *1* |
| *Toluene-d8 (Surr)* | *114* | | *79 - 123* | | *03/07/15 03:52* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 03:52 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 03:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *79 - 120* | | *03/07/15 03:52* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* | | *03/07/15 03:52* | *1* |
| *Toluene-d8 (Surr)* | *114* | | *79 - 123* | | *03/07/15 03:52* | *1* |

## Client Sample ID: SB-13-10

**Lab Sample ID: 440-103385-9**

**Date Collected: 02/27/15 10:13**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **34** | | 9.6 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 12:42 | 1 |
| ORO (C29-C40) | ND | | 9.6 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 12:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *90* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 12:42* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **7.5** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:39 | 5 |

## Client Sample ID: SB-13-15

**Lab Sample ID: 440-103385-10**

**Date Collected: 02/27/15 10:19**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **90** | | 10 | | mg/Kg | | 03/09/15 13:46 | 03/10/15 13:41 | 100 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *55 - 140* | *03/09/15 13:46* | *03/10/15 13:41* | *100* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *65 - 140* | *03/09/15 13:46* | *03/10/15 13:41* | *100* |
| *Toluene-d8 (Surr)* | *110* | | *60 - 140* | *03/09/15 13:46* | *03/10/15 13:41* | *100* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0099 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| Benzene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| Ethylbenzene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0099 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| m,p-Xylene | ND | | 0.020 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.025 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| Naphthalene | ND | | 0.025 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| o-Xylene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| Toluene | ND | | 0.0099 | | mg/Kg | | | 03/10/15 05:24 | 1 |
| Xylenes, Total | ND | | 0.020 | | mg/Kg | | | 03/10/15 05:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *79 - 120* | | *03/10/15 05:24* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *60 - 120* | | *03/10/15 05:24* | *1* |
| *Toluene-d8 (Surr)* | *124* | *X* | *79 - 123* | | *03/10/15 05:24* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **45** | | 9.8 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:02 | 1 |
| ORO (C29-C40) | ND | | 9.8 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *91* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 13:02* | *1* |

## Client Sample ID: SB-13-15

**Lab Sample ID: 440-103385-10**

**Date Collected: 02/27/15 10:19**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.7 | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:41 | 5 |

## Client Sample ID: SB-13-20

**Lab Sample ID: 440-103385-11**

**Date Collected: 02/27/15 10:32**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 2.0 | | 0.10 | | mg/Kg | | | 03/07/15 04:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *113* | | *60 - 120* | | *03/07/15 04:22* | *1* |
| *4-Bromofluorobenzene (Surr)* | *114* | | *79 - 120* | | *03/07/15 04:22* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 04:22* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:22 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 04:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *79 - 120* | | *03/07/15 04:22* | *1* |
| *Dibromofluoromethane (Surr)* | *113* | | *60 - 120* | | *03/07/15 04:22* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 04:22* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 10 | | mg/Kg | | 03/12/15 22:52 | 03/13/15 11:16 | 1 |
| ORO (C29-C40) | ND | | 10 | | mg/Kg | | 03/12/15 22:52 | 03/13/15 11:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *88* | | *40 - 140* | *03/12/15 22:52* | *03/13/15 11:16* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 8.7 | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:43 | 5 |

## Client Sample ID: SB-13-25

**Lab Sample ID: 440-103385-12**

**Date Collected: 02/27/15 11:28**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 04:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *113* | | *60 - 120* | | *03/07/15 04:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/07/15 04:52* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 04:52* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 04:52 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 04:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/07/15 04:52* | *1* |
| *Dibromofluoromethane (Surr)* | *113* | | *60 - 120* | | *03/07/15 04:52* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 04:52* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.7 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:21 | 1 |
| ORO (C29-C40) | ND | | 9.7 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *87* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 13:21* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **10** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:44 | 5 |

## Client Sample ID: SB-13-30

**Lab Sample ID: 440-103385-13**

**Date Collected: 02/27/15 11:43**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 05:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 05:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *114* | | *79 - 120* | | *03/07/15 05:21* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 05:21* | *1* |

## Client Sample ID: SB-13-30

**Lab Sample ID: 440-103385-13**

**Date Collected: 02/27/15 11:43**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:21 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 05:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *79 - 120* | | *03/07/15 05:21* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* | | *03/07/15 05:21* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* | | *03/07/15 05:21* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **DRO (C10-C28)** | **6.3** | | 5.0 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:42 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 13:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *63* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 13:42* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **9.0** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:46 | 5 |

## Client Sample ID: SB-13-34.5

**Lab Sample ID: 440-103385-14**

**Date Collected: 02/27/15 11:50**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 05:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *115* | | *60 - 120* | | *03/07/15 05:51* | *1* |
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/07/15 05:51* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/07/15 05:51* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:51 | 1 |

## Client Sample ID: SB-13-34.5

**Lab Sample ID: 440-103385-14**

**Date Collected: 02/27/15 11:50**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/07/15 05:51 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/07/15 05:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/07/15 05:51* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *60 - 120* | | *03/07/15 05:51* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* | | *03/07/15 05:51* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 9.5 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 14:02 | 1 |
| ORO (C29-C40) | ND | | 9.5 | | mg/Kg | | 03/12/15 16:34 | 03/13/15 14:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *86* | | *40 - 140* | *03/12/15 16:34* | *03/13/15 14:02* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **8.4** | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:48 | 5 |

## Client Sample ID: SB-10-35W

**Lab Sample ID: 440-103385-15**

**Date Collected: 02/27/15 12:05**

**Matrix: Water**

**Date Received: 03/03/15 09:35**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Fuel Hydrocarbons (C4-C12)** | **230** | | 50 | | ug/L | | | 03/11/15 20:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *99* | | *76 - 132* | | *03/11/15 20:26* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *80 - 120* | | *03/11/15 20:26* | *1* |
| *Toluene-d8 (Surr)* | *121* | | *80 - 128* | | *03/11/15 20:26* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.50 | | ug/L | | | 03/11/15 20:26 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 03/11/15 20:26 | 1 |
| **Methyl-t-Butyl Ether (MTBE)** | **0.98** | | 0.50 | | ug/L | | | 03/11/15 20:26 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 03/11/15 20:26 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 03/11/15 20:26 | 1 |
| 1,2-DCA | ND | | 0.50 | | ug/L | | | 03/11/15 20:26 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 03/11/15 20:26 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | | ug/L | | | 03/11/15 20:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *80 - 120* | | *03/11/15 20:26* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *76 - 132* | | *03/11/15 20:26* | *1* |
| *Toluene-d8 (Surr)* | *121* | | *80 - 128* | | *03/11/15 20:26* | *1* |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

**Client Sample ID: SB-13-28W**
**Date Collected: 02/27/15 12:08**
**Date Received: 03/03/15 09:35**

**Lab Sample ID: 440-103385-16**
**Matrix: Water**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 57 | | 50 | | ug/L | | | 03/11/15 21:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *97* | | *76 - 132* | | *03/11/15 21:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | | *03/11/15 21:47* | *1* |
| *Toluene-d8 (Surr)* | *119* | | *80 - 128* | | *03/11/15 21:47* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.50 | | ug/L | | | 03/11/15 21:47 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 03/11/15 21:47 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | | ug/L | | | 03/11/15 21:47 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 03/11/15 21:47 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 03/11/15 21:47 | 1 |
| 1,2-DCA | ND | | 0.50 | | ug/L | | | 03/11/15 21:47 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 03/11/15 21:47 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | | ug/L | | | 03/11/15 21:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | | *03/11/15 21:47* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *76 - 132* | | *03/11/15 21:47* | *1* |
| *Toluene-d8 (Surr)* | *119* | | *80 - 128* | | *03/11/15 21:47* | *1* |

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8260B/CA_LUFTMS | Volatile Organic Compounds by GC/MS | SW846 | TAL IRV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL IRV |
| 6010B | Metals (ICP) | SW846 | TAL IRV |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Client Sample ID: SB-10-5

**Lab Sample ID: 440-103385-1**

**Date Collected: 02/27/15 07:50**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.04 g | 10 mL | 241072 | 03/06/15 22:21 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.04 g | 10 mL | 241073 | 03/06/15 22:21 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.65 g | 1 mL | 241789 | 03/10/15 18:37 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.65 g | 1 mL | 241964 | 03/11/15 22:47 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.04 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.04 g | 50 mL | 241857 | 03/10/15 18:15 | VS | TAL IRV |

## Client Sample ID: SB-10-10

**Lab Sample ID: 440-103385-2**

**Date Collected: 02/27/15 08:10**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 2.56 g | 10 mL | 241072 | 03/07/15 06:20 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 2.56 g | 10 mL | 241073 | 03/07/15 06:20 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.69 g | 1 mL | 241789 | 03/10/15 18:37 | KDP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.69 g | 1 mL | 241964 | 03/12/15 01:01 | CN | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241857 | 03/10/15 18:21 | VS | TAL IRV |

## Client Sample ID: SB-10-15

**Lab Sample ID: 440-103385-3**

**Date Collected: 02/27/15 08:15**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 1.01 g | 10 mL | 241443 | 03/10/15 04:55 | WK | TAL IRV |
| Total/NA | Prep | 5030B | | | 10.03 g | 10 mL | 241394 | 03/09/15 13:46 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 200 | 10.03 g | 10 mL | 241558 | 03/10/15 13:14 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.60 g | 1 mL | 242364 | 03/12/15 22:52 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.60 g | 1 mL | 242531 | 03/13/15 10:17 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.00 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.00 g | 50 mL | 241857 | 03/10/15 18:23 | VS | TAL IRV |

## Client Sample ID: SB-10-20

**Lab Sample ID: 440-103385-4**

**Date Collected: 02/27/15 08:20**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 4.97 g | 10 mL | 241072 | 03/07/15 01:23 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 4.97 g | 10 mL | 241073 | 03/07/15 01:23 | WK | TAL IRV |

## Client Sample ID: SB-10-20

**Lab Sample ID: 440-103385-4**

**Date Collected: 02/27/15 08:20**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 7.55 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.55 g | 1 mL | 242529 | 03/13/15 12:42 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 241857 | 03/10/15 18:25 | VS | TAL IRV |

## Client Sample ID: SB-10-25

**Lab Sample ID: 440-103385-5**

**Date Collected: 02/27/15 08:28**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5 g | 10 mL | 241072 | 03/07/15 01:53 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5 g | 10 mL | 241073 | 03/07/15 01:53 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.70 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.70 g | 1 mL | 242529 | 03/13/15 13:02 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 1.99 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 1.99 g | 50 mL | 241857 | 03/10/15 18:27 | VS | TAL IRV |

## Client Sample ID: SB-10-30

**Lab Sample ID: 440-103385-6**

**Date Collected: 02/27/15 09:03**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.02 g | 10 mL | 241072 | 03/07/15 02:23 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.02 g | 10 mL | 241073 | 03/07/15 02:23 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.69 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.69 g | 1 mL | 242529 | 03/13/15 13:21 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 241857 | 03/10/15 18:28 | VS | TAL IRV |

## Client Sample ID: SB-10-34.5

**Lab Sample ID: 440-103385-7**

**Date Collected: 02/27/15 09:40**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 4.98 g | 10 mL | 241072 | 03/07/15 02:52 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 4.98 g | 10 mL | 241073 | 03/07/15 02:52 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.81 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.81 g | 1 mL | 242529 | 03/13/15 13:42 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.04 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.04 g | 50 mL | 241857 | 03/10/15 18:35 | VS | TAL IRV |

## Client Sample ID: SB-13-5

**Lab Sample ID: 440-103385-8**

**Date Collected: 02/27/15 10:08**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5 g | 10 mL | 241072 | 03/07/15 03:23 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5 g | 10 mL | 241073 | 03/07/15 03:23 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.90 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.90 g | 1 mL | 242529 | 03/13/15 14:02 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241857 | 03/10/15 18:37 | VS | TAL IRV |

## Client Sample ID: SB-13-10

**Lab Sample ID: 440-103385-9**

**Date Collected: 02/27/15 10:13**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 241072 | 03/07/15 03:52 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 241073 | 03/07/15 03:52 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.81 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.81 g | 1 mL | 242531 | 03/13/15 12:42 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241857 | 03/10/15 18:39 | VS | TAL IRV |

## Client Sample ID: SB-13-15

**Lab Sample ID: 440-103385-10**

**Date Collected: 02/27/15 10:19**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 1.01 g | 10 mL | 241443 | 03/10/15 05:24 | WK | TAL IRV |
| Total/NA | Prep | 5030B | | | 9.99 g | 10 mL | 241394 | 03/09/15 13:46 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 9.99 g | 10 mL | 241558 | 03/10/15 13:41 | AL | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.68 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.68 g | 1 mL | 242531 | 03/13/15 13:02 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241857 | 03/10/15 18:41 | VS | TAL IRV |

## Client Sample ID: SB-13-20

**Lab Sample ID: 440-103385-11**

**Date Collected: 02/27/15 10:32**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5 g | 10 mL | 241072 | 03/07/15 04:22 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5 g | 10 mL | 241073 | 03/07/15 04:22 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.53 g | 1 mL | 242364 | 03/12/15 22:52 | QCT | TAL IRV |

## Client Sample ID: SB-13-20

**Lab Sample ID: 440-103385-11**

**Date Collected: 02/27/15 10:32**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015B | | 1 | 7.53 g | 1 mL | 242529 | 03/13/15 11:16 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.03 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.03 g | 50 mL | 241857 | 03/10/15 18:43 | VS | TAL IRV |

## Client Sample ID: SB-13-25

**Lab Sample ID: 440-103385-12**

**Date Collected: 02/27/15 11:28**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.01 g | 10 mL | 241072 | 03/07/15 04:52 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.01 g | 10 mL | 241073 | 03/07/15 04:52 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.73 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.73 g | 1 mL | 242531 | 03/13/15 13:21 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241857 | 03/10/15 18:44 | VS | TAL IRV |

## Client Sample ID: SB-13-30

**Lab Sample ID: 440-103385-13**

**Date Collected: 02/27/15 11:43**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 4.99 g | 10 mL | 241072 | 03/07/15 05:21 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 4.99 g | 10 mL | 241073 | 03/07/15 05:21 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 15.04 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 15.04 g | 1 mL | 242531 | 03/13/15 13:42 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.00 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.00 g | 50 mL | 241857 | 03/10/15 18:46 | VS | TAL IRV |

## Client Sample ID: SB-13-34.5

**Lab Sample ID: 440-103385-14**

**Date Collected: 02/27/15 11:50**

**Matrix: Solid**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.02 g | 10 mL | 241072 | 03/07/15 05:51 | WK | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.02 g | 10 mL | 241073 | 03/07/15 05:51 | WK | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.86 g | 1 mL | 242352 | 03/12/15 16:34 | ES | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.86 g | 1 mL | 242531 | 03/13/15 14:02 | KW | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 240678 | 03/05/15 11:17 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241857 | 03/10/15 18:48 | VS | TAL IRV |

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

## Client Sample ID: SB-10-35W

**Lab Sample ID: 440-103385-15**

**Date Collected: 02/27/15 12:05**

**Matrix: Water**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 10 mL | 10 mL | 242059 | 03/11/15 20:26 | AA | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 10 mL | 10 mL | 242060 | 03/11/15 20:26 | RM | TAL IRV |

## Client Sample ID: SB-13-28W

**Lab Sample ID: 440-103385-16**

**Date Collected: 02/27/15 12:08**

**Matrix: Water**

**Date Received: 03/03/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 10 mL | 10 mL | 242059 | 03/11/15 21:47 | AA | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 10 mL | 10 mL | 242060 | 03/11/15 21:47 | RM | TAL IRV |

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-241072/4**
**Matrix: Solid**
**Analysis Batch: 241072**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/06/15 20:21 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/06/15 20:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/06/15 20:21* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *03/06/15 20:21* | *1* |
| *Toluene-d8 (Surr)* | *115* | | *79 - 123* | | *03/06/15 20:21* | *1* |

**Lab Sample ID: LCS 440-241072/26**
**Matrix: Solid**
**Analysis Batch: 241072**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0500 | 0.0568 | | mg/Kg | | 114 | 60 - 140 |
| Benzene | 0.0500 | 0.0502 | | mg/Kg | | 100 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0470 | | mg/Kg | | 94 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0536 | | mg/Kg | | 107 | 70 - 130 |
| m,p-Xylene | 0.0500 | 0.0469 | | mg/Kg | | 94 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0494 | | mg/Kg | | 99 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0477 | | mg/Kg | | 95 | 55 - 135 |
| o-Xylene | 0.0500 | 0.0472 | | mg/Kg | | 94 | 70 - 125 |
| Toluene | 0.0500 | 0.0468 | | mg/Kg | | 94 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *112* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *109* | | *79 - 123* |

**Lab Sample ID: 440-103385-1 MS**
**Matrix: Solid**
**Analysis Batch: 241072**

**Client Sample ID: SB-10-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0496 | 0.0576 | | mg/Kg | | 116 | 60 - 150 |
| Benzene | ND | | 0.0496 | 0.0503 | | mg/Kg | | 101 | 65 - 130 |
| Ethylbenzene | ND | | 0.0496 | 0.0459 | | mg/Kg | | 93 | 70 - 135 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0496 | 0.0539 | | mg/Kg | | 109 | 65 - 140 |
| m,p-Xylene | ND | | 0.0496 | 0.0461 | | mg/Kg | | 93 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0496 | 0.0520 | | mg/Kg | | 105 | 55 - 155 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-103385-1 MS**
**Matrix: Solid**
**Analysis Batch: 241072**

**Client Sample ID: SB-10-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0496 | 0.0445 | | mg/Kg | | 90 | 40 - 150 |
| o-Xylene | ND | | 0.0496 | 0.0467 | | mg/Kg | | 94 | 65 - 130 |
| Toluene | ND | | 0.0496 | 0.0467 | | mg/Kg | | 94 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

**Lab Sample ID: 440-103385-1 MSD**
**Matrix: Solid**
**Analysis Batch: 241072**

**Client Sample ID: SB-10-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0499 | 0.0599 | | mg/Kg | | 120 | 60 - 150 | 4 | 25 |
| Benzene | ND | | 0.0499 | 0.0500 | | mg/Kg | | 100 | 65 - 130 | 1 | 20 |
| Ethylbenzene | ND | | 0.0499 | 0.0461 | | mg/Kg | | 92 | 70 - 135 | 0 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0499 | 0.0561 | | mg/Kg | | 112 | 65 - 140 | 4 | 25 |
| m,p-Xylene | ND | | 0.0499 | 0.0461 | | mg/Kg | | 92 | 70 - 130 | 0 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0499 | 0.0534 | | mg/Kg | | 107 | 55 - 155 | 3 | 35 |
| Naphthalene | ND | | 0.0499 | 0.0499 | | mg/Kg | | 100 | 40 - 150 | 11 | 40 |
| o-Xylene | ND | | 0.0499 | 0.0466 | | mg/Kg | | 93 | 65 - 130 | 0 | 25 |
| Toluene | ND | | 0.0499 | 0.0462 | | mg/Kg | | 93 | 70 - 130 | 1 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: MB 440-241443/4**
**Matrix: Solid**
**Analysis Batch: 241443**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0020 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| Benzene | ND | | 0.0020 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| Ethylbenzene | ND | | 0.0020 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0020 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| m,p-Xylene | ND | | 0.0040 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0050 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| Naphthalene | ND | | 0.0050 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| o-Xylene | ND | | 0.0020 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| Toluene | ND | | 0.0020 | | mg/Kg | | | 03/09/15 20:02 | 1 |
| Xylenes, Total | ND | | 0.0040 | | mg/Kg | | | 03/09/15 20:02 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *79 - 120* | | *03/09/15 20:02* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-241443/4**
**Matrix: Solid**
**Analysis Batch: 241443**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *95* | | *60 - 120* | | *03/09/15 20:02* | *1* |
| *Toluene-d8 (Surr)* | *119* | | *79 - 123* | | *03/09/15 20:02* | *1* |

**Lab Sample ID: LCS 440-241443/5**
**Matrix: Solid**
**Analysis Batch: 241443**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0500 | 0.0396 | | mg/Kg | | 79 | 60 - 140 |
| Benzene | 0.0500 | 0.0524 | | mg/Kg | | 105 | 65 - 120 |
| Ethylbenzene | 0.0500 | 0.0460 | | mg/Kg | | 92 | 70 - 125 |
| 1,2-Dibromoethane (EDB) | 0.0500 | 0.0540 | | mg/Kg | | 108 | 70 - 130 |
| m,p-Xylene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 70 - 125 |
| Methyl-t-Butyl Ether (MTBE) | 0.0500 | 0.0457 | | mg/Kg | | 91 | 60 - 140 |
| Naphthalene | 0.0500 | 0.0503 | | mg/Kg | | 101 | 55 - 135 |
| o-Xylene | 0.0500 | 0.0496 | | mg/Kg | | 99 | 70 - 125 |
| Toluene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *96* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* |

**Lab Sample ID: 440-103701-A-4 MS**
**Matrix: Solid**
**Analysis Batch: 241443**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0502 | 0.0396 | | mg/Kg | | 79 | 60 - 150 |
| Benzene | ND | | 0.0502 | 0.0514 | | mg/Kg | | 102 | 65 - 130 |
| Ethylbenzene | ND | | 0.0502 | 0.0452 | | mg/Kg | | 90 | 70 - 135 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0502 | 0.0562 | | mg/Kg | | 112 | 65 - 140 |
| m,p-Xylene | ND | | 0.0502 | 0.0483 | | mg/Kg | | 96 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0502 | 0.0481 | | mg/Kg | | 96 | 55 - 155 |
| Naphthalene | ND | | 0.0502 | 0.0513 | | mg/Kg | | 102 | 40 - 150 |
| o-Xylene | ND | | 0.0502 | 0.0485 | | mg/Kg | | 97 | 65 - 130 |
| Toluene | ND | | 0.0502 | 0.0495 | | mg/Kg | | 99 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *96* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-103701-A-4 MSD**
**Matrix: Solid**
**Analysis Batch: 241443**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.0497 | 0.0459 | | mg/Kg | | 92 | 60 - 150 | 15 | 25 |
| Benzene | ND | | 0.0497 | 0.0521 | | mg/Kg | | 105 | 65 - 130 | 1 | 20 |
| Ethylbenzene | ND | | 0.0497 | 0.0458 | | mg/Kg | | 92 | 70 - 135 | 1 | 25 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0497 | 0.0596 | | mg/Kg | | 120 | 65 - 140 | 6 | 25 |
| m,p-Xylene | ND | | 0.0497 | 0.0493 | | mg/Kg | | 99 | 70 - 130 | 2 | 25 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.0497 | 0.0507 | | mg/Kg | | 102 | 55 - 155 | 5 | 35 |
| Naphthalene | ND | | 0.0497 | 0.0561 | | mg/Kg | | 113 | 40 - 150 | 9 | 40 |
| o-Xylene | ND | | 0.0497 | 0.0489 | | mg/Kg | | 98 | 65 - 130 | 1 | 25 |
| Toluene | ND | | 0.0497 | 0.0508 | | mg/Kg | | 102 | 70 - 130 | 2 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *96* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *112* | | *79 - 123* |

**Lab Sample ID: MB 440-242059/4**
**Matrix: Water**
**Analysis Batch: 242059**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.50 | | ug/L | | | 03/11/15 19:06 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 03/11/15 19:06 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | | ug/L | | | 03/11/15 19:06 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 03/11/15 19:06 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 03/11/15 19:06 | 1 |
| 1,2-DCA | ND | | 0.50 | | ug/L | | | 03/11/15 19:06 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 03/11/15 19:06 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | | ug/L | | | 03/11/15 19:06 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *80 - 120* | | *03/11/15 19:06* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *76 - 132* | | *03/11/15 19:06* | *1* |
| *Toluene-d8 (Surr)* | *118* | | *80 - 128* | | *03/11/15 19:06* | *1* |

**Lab Sample ID: LCS 440-242059/5**
**Matrix: Water**
**Analysis Batch: 242059**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 25.0 | 26.1 | | ug/L | | 104 | 68 - 130 |
| Ethylbenzene | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 |
| m,p-Xylene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |
| Methyl-t-Butyl Ether (MTBE) | 25.0 | 25.1 | | ug/L | | 100 | 63 - 131 |
| o-Xylene | 25.0 | 26.9 | | ug/L | | 107 | 70 - 130 |
| Toluene | 25.0 | 27.9 | | ug/L | | 112 | 70 - 130 |
| 1,2-DCA | 25.0 | 25.2 | | ug/L | | 101 | 57 - 138 |
| Naphthalene | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-242059/5**
**Matrix: Water**
**Analysis Batch: 242059**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | | | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *104* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* |

**Lab Sample ID: 440-103385-15 MS**
**Matrix: Water**
**Analysis Batch: 242059**

**Client Sample ID: SB-10-35W**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 25.0 | 26.5 | | ug/L | | 105 | 66 - 130 | | |
| Ethylbenzene | ND | | 25.0 | 28.6 | | ug/L | | 113 | 70 - 130 | | |
| m,p-Xylene | ND | | 25.0 | 27.9 | | ug/L | | 111 | 70 - 133 | | |
| Methyl-t-Butyl Ether (MTBE) | 0.98 | | 25.0 | 25.9 | | ug/L | | 100 | 70 - 130 | | |
| o-Xylene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 70 - 133 | | |
| Toluene | ND | | 25.0 | 28.6 | | ug/L | | 114 | 70 - 130 | | |
| 1,2-DCA | ND | | 25.0 | 25.0 | | ug/L | | 100 | 56 - 146 | | |
| Naphthalene | ND | | 25.0 | 28.6 | | ug/L | | 114 | 60 - 140 | | |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 27.3 | | ug/L | | 109 | 70 - 131 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* |

**Lab Sample ID: 440-103385-15 MSD**
**Matrix: Water**
**Analysis Batch: 242059**

**Client Sample ID: SB-10-35W**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 25.0 | 26.3 | | ug/L | | 104 | 66 - 130 | 0 | 20 |
| Ethylbenzene | ND | | 25.0 | 28.4 | | ug/L | | 112 | 70 - 130 | 1 | 20 |
| m,p-Xylene | ND | | 25.0 | 27.7 | | ug/L | | 111 | 70 - 133 | 1 | 25 |
| Methyl-t-Butyl Ether (MTBE) | 0.98 | | 25.0 | 24.3 | | ug/L | | 93 | 70 - 130 | 6 | 25 |
| o-Xylene | ND | | 25.0 | 27.1 | | ug/L | | 108 | 70 - 133 | 1 | 20 |
| Toluene | ND | | 25.0 | 28.7 | | ug/L | | 115 | 70 - 130 | 0 | 20 |
| 1,2-DCA | ND | | 25.0 | 23.9 | | ug/L | | 96 | 56 - 146 | 5 | 20 |
| Naphthalene | ND | | 25.0 | 26.6 | | ug/L | | 107 | 60 - 140 | 7 | 30 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 26.8 | | ug/L | | 107 | 70 - 131 | 2 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *114* | | *80 - 128* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-241073/4**
**Matrix: Solid**
**Analysis Batch: 241073**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/06/15 20:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 120* | | *03/06/15 20:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* | | *03/06/15 20:21* | *1* |
| *Toluene-d8 (Surr)* | *115* | | *79 - 123* | | *03/06/15 20:21* | *1* |

**Lab Sample ID: LCS 440-241073/6**
**Matrix: Solid**
**Analysis Batch: 241073**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 1.00 | 0.922 | | mg/Kg | | 92 | 60 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *111* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *112* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *113* | | *79 - 123* |

**Lab Sample ID: 440-103385-1 MS**
**Matrix: Solid**
**Analysis Batch: 241073**

**Client Sample ID: SB-10-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.42 | 3.78 | | mg/Kg | | 110 | 55 - 140 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *113* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *107* | | *79 - 123* |

**Lab Sample ID: 440-103385-1 MSD**
**Matrix: Solid**
**Analysis Batch: 241073**

**Client Sample ID: SB-10-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.44 | 3.99 | | mg/Kg | | 116 | 55 - 140 | 5 | 25 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *111* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-241558/4**
**Matrix: Solid**
**Analysis Batch: 241558**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 10 | | mg/Kg | | | 03/10/15 08:27 | 100 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *55 - 140* | | *03/10/15 08:27* | *100* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *65 - 140* | | *03/10/15 08:27* | *100* |
| *Toluene-d8 (Surr)* | *113* | | *60 - 140* | | *03/10/15 08:27* | *100* |

**Lab Sample ID: LCS 440-241558/7**
**Matrix: Solid**
**Analysis Batch: 241558**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 50.0 | 38.7 | | mg/Kg | | 77 | 60 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *55 - 140* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *65 - 140* |
| *Toluene-d8 (Surr)* | *113* | | *60 - 140* |

**Lab Sample ID: LCSD 440-241558/8**
**Matrix: Solid**
**Analysis Batch: 241558**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 50.0 | 39.9 | | mg/Kg | | 80 | 60 - 130 | 3 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *55 - 140* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *65 - 140* |
| *Toluene-d8 (Surr)* | *112* | | *60 - 140* |

**Lab Sample ID: MB 440-242060/4**
**Matrix: Water**
**Analysis Batch: 242060**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 50 | | ug/L | | | 03/11/15 19:06 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *97* | | *76 - 132* | | *03/11/15 19:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *80 - 120* | | *03/11/15 19:06* | *1* |
| *Toluene-d8 (Surr)* | *118* | | *80 - 128* | | *03/11/15 19:06* | *1* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-242060/6**
**Matrix: Water**
**Analysis Batch: 242060**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 500 | 395 | | ug/L | | 79 | 55 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *99* | | *76 - 132* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *119* | | *80 - 128* |

**Lab Sample ID: 440-103385-15 MS**
**Matrix: Water**
**Analysis Batch: 242060**

**Client Sample ID: SB-10-35W**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 230 | | 1730 | 1670 | | ug/L | | 83 | 50 - 145 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *101* | | *76 - 132* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *112* | | *80 - 128* |

**Lab Sample ID: 440-103385-15 MSD**
**Matrix: Water**
**Analysis Batch: 242060**

**Client Sample ID: SB-10-35W**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | 230 | | 1730 | 1600 | | ug/L | | 79 | 50 - 145 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *99* | | *76 - 132* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *114* | | *80 - 128* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 440-241789/1-A**
**Matrix: Solid**
**Analysis Batch: 241964**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 241789**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 08:58 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/10/15 18:35 | 03/11/15 08:58 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *92* | | *40 - 140* | *03/10/15 18:35* | *03/11/15 08:58* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 440-241789/2-A**
**Matrix: Solid**
**Analysis Batch: 241964**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 241789**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | | | 66.7 | 56.8 | | mg/Kg | | 85 | 45 - 115 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *87* | | *40 - 140* |

**Lab Sample ID: MB 440-242352/1-A**
**Matrix: Solid**
**Analysis Batch: 242911**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 242352**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 5.0 | | mg/Kg | | 03/12/15 16:34 | 03/16/15 12:56 | 1 |
| ORO (C29-C40) | ND | | 5.0 | | mg/Kg | | 03/12/15 16:34 | 03/16/15 12:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *94* | | *40 - 140* | *03/12/15 16:34* | *03/16/15 12:56* | *1* |

**Lab Sample ID: LCS 440-242352/2-A**
**Matrix: Solid**
**Analysis Batch: 242911**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 242352**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | | | 66.7 | 57.1 | | mg/Kg | | 86 | 45 - 115 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *80* | | *40 - 140* |

**Lab Sample ID: 440-103973-H-3-C MS**
**Matrix: Solid**
**Analysis Batch: 242521**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 242352**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 390 | | 66.6 | 469 | 4 | mg/Kg | | 115 | 40 - 120 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *46* | | *40 - 140* |

**Lab Sample ID: 440-103973-H-3-D MSD**
**Matrix: Solid**
**Analysis Batch: 242521**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 242352**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 390 | | 66.5 | 532 | 4 | mg/Kg | | 210 | 40 - 120 | 13 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *51* | | *40 - 140* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 440-242364/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 242520** — **Prep Batch: 242364**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | | | 66.7 | 62.9 | | mg/Kg | | 94 | 45 - 115 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *94* | | *40 - 140* |

**Lab Sample ID: 440-103505-M-1-A MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 242520** — **Prep Batch: 242364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 100 | F1 | 66.2 | 92.1 | F1 | mg/Kg | | -18 | 40 - 120 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *89* | | *40 - 140* |

**Lab Sample ID: 440-103505-M-1-B MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 242520** — **Prep Batch: 242364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 100 | F1 | 65.7 | 86.3 | F1 | mg/Kg | | -27 | 40 - 120 | 6 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *83* | | *40 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-240678/1-A ^5** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 241857** — **Prep Batch: 240678**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 2.0 | | mg/Kg | | 03/05/15 11:17 | 03/10/15 18:10 | 5 |

**Lab Sample ID: LCS 440-240678/2-A ^5** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 241857** — **Prep Batch: 240678**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | | | 49.8 | 51.6 | | mg/Kg | | 104 | 80 - 120 | | |

**Lab Sample ID: 440-103385-1 MS** — **Client Sample ID: SB-10-5**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 241857** — **Prep Batch: 240678**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.1 | | 50.0 | 62.9 | | mg/Kg | | 112 | 75 - 125 | | |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-103385-1 MSD**
**Matrix: Solid**
**Analysis Batch: 241857**

**Client Sample ID: SB-10-5**
**Prep Type: Total/NA**
**Prep Batch: 240678**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.1 | | 49.5 | 69.0 | | mg/Kg | | 125 | 75 - 125 | 9 | 20 |

## GC/MS VOA

### Analysis Batch: 241072

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-1 | SB-10-5 | Total/NA | Solid | 8260B | |
| 440-103385-1 MS | SB-10-5 | Total/NA | Solid | 8260B | |
| 440-103385-1 MSD | SB-10-5 | Total/NA | Solid | 8260B | |
| 440-103385-2 | SB-10-10 | Total/NA | Solid | 8260B | |
| 440-103385-4 | SB-10-20 | Total/NA | Solid | 8260B | |
| 440-103385-5 | SB-10-25 | Total/NA | Solid | 8260B | |
| 440-103385-6 | SB-10-30 | Total/NA | Solid | 8260B | |
| 440-103385-7 | SB-10-34.5 | Total/NA | Solid | 8260B | |
| 440-103385-8 | SB-13-5 | Total/NA | Solid | 8260B | |
| 440-103385-9 | SB-13-10 | Total/NA | Solid | 8260B | |
| 440-103385-11 | SB-13-20 | Total/NA | Solid | 8260B | |
| 440-103385-12 | SB-13-25 | Total/NA | Solid | 8260B | |
| 440-103385-13 | SB-13-30 | Total/NA | Solid | 8260B | |
| 440-103385-14 | SB-13-34.5 | Total/NA | Solid | 8260B | |
| LCS 440-241072/26 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-241072/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 241073

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-1 | SB-10-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-1 MS | SB-10-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-1 MSD | SB-10-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-2 | SB-10-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-4 | SB-10-20 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-5 | SB-10-25 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-6 | SB-10-30 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-7 | SB-10-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-8 | SB-13-5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-9 | SB-13-10 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-11 | SB-13-20 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-12 | SB-13-25 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-13 | SB-13-30 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103385-14 | SB-13-34.5 | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCS 440-241073/6 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-241073/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

### Prep Batch: 241394

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-3 | SB-10-15 | Total/NA | Solid | 5030B | |

## GC/MS VOA (Continued)

### Prep Batch: 241394 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-10 | SB-13-15 | Total/NA | Solid | 5030B | |

### Analysis Batch: 241443

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-3 | SB-10-15 | Total/NA | Solid | 8260B | |
| 440-103385-10 | SB-13-15 | Total/NA | Solid | 8260B | |
| 440-103701-A-4 MS | Matrix Spike | Total/NA | Solid | 8260B | |
| 440-103701-A-4 MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B | |
| LCS 440-241443/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-241443/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 241558

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-3 | SB-10-15 | Total/NA | Solid | 8260B/CA_LUFT MS | 241394 |
| 440-103385-10 | SB-13-15 | Total/NA | Solid | 8260B/CA_LUFT MS | 241394 |
| LCS 440-241558/7 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| LCSD 440-241558/8 | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-241558/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

### Analysis Batch: 242059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-15 | SB-10-35W | Total/NA | Water | 8260B | |
| 440-103385-15 MS | SB-10-35W | Total/NA | Water | 8260B | |
| 440-103385-15 MSD | SB-10-35W | Total/NA | Water | 8260B | |
| 440-103385-16 | SB-13-28W | Total/NA | Water | 8260B | |
| LCS 440-242059/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 440-242059/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 242060

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-15 | SB-10-35W | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103385-15 MS | SB-10-35W | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103385-15 MSD | SB-10-35W | Total/NA | Water | 8260B/CA_LUFT MS | |
| 440-103385-16 | SB-13-28W | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 440-242060/6 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| MB 440-242060/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT MS | |

## GC Semi VOA

### Prep Batch: 241789

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-1 | SB-10-5 | Total/NA | Solid | 3546 | |

## GC Semi VOA (Continued)

### Prep Batch: 241789 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-2 | SB-10-10 | Total/NA | Solid | 3546 | |
| LCS 440-241789/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 440-241789/1-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 241964

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-1 | SB-10-5 | Total/NA | Solid | 8015B | 241789 |
| 440-103385-2 | SB-10-10 | Total/NA | Solid | 8015B | 241789 |
| LCS 440-241789/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 241789 |
| MB 440-241789/1-A | Method Blank | Total/NA | Solid | 8015B | 241789 |

### Prep Batch: 242352

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-4 | SB-10-20 | Total/NA | Solid | 3546 | |
| 440-103385-5 | SB-10-25 | Total/NA | Solid | 3546 | |
| 440-103385-6 | SB-10-30 | Total/NA | Solid | 3546 | |
| 440-103385-7 | SB-10-34.5 | Total/NA | Solid | 3546 | |
| 440-103385-8 | SB-13-5 | Total/NA | Solid | 3546 | |
| 440-103385-9 | SB-13-10 | Total/NA | Solid | 3546 | |
| 440-103385-10 | SB-13-15 | Total/NA | Solid | 3546 | |
| 440-103385-12 | SB-13-25 | Total/NA | Solid | 3546 | |
| 440-103385-13 | SB-13-30 | Total/NA | Solid | 3546 | |
| 440-103385-14 | SB-13-34.5 | Total/NA | Solid | 3546 | |
| 440-103973-H-3-C MS | Matrix Spike | Total/NA | Solid | 3546 | |
| 440-103973-H-3-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 3546 | |
| LCS 440-242352/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 440-242352/1-A | Method Blank | Total/NA | Solid | 3546 | |

### Prep Batch: 242364

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-3 | SB-10-15 | Total/NA | Solid | 3546 | |
| 440-103385-11 | SB-13-20 | Total/NA | Solid | 3546 | |
| 440-103505-M-1-A MS | Matrix Spike | Total/NA | Solid | 3546 | |
| 440-103505-M-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 3546 | |
| LCS 440-242364/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |

### Analysis Batch: 242520

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103505-M-1-A MS | Matrix Spike | Total/NA | Solid | 8015B | 242364 |
| 440-103505-M-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B | 242364 |
| LCS 440-242364/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 242364 |

### Analysis Batch: 242521

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103973-H-3-C MS | Matrix Spike | Total/NA | Solid | 8015B | 242352 |
| 440-103973-H-3-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B | 242352 |

### Analysis Batch: 242529

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-4 | SB-10-20 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-5 | SB-10-25 | Total/NA | Solid | 8015B | 242352 |

## GC Semi VOA (Continued)

### Analysis Batch: 242529 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-6 | SB-10-30 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-7 | SB-10-34.5 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-8 | SB-13-5 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-11 | SB-13-20 | Total/NA | Solid | 8015B | 242364 |

### Analysis Batch: 242531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-3 | SB-10-15 | Total/NA | Solid | 8015B | 242364 |
| 440-103385-9 | SB-13-10 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-10 | SB-13-15 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-12 | SB-13-25 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-13 | SB-13-30 | Total/NA | Solid | 8015B | 242352 |
| 440-103385-14 | SB-13-34.5 | Total/NA | Solid | 8015B | 242352 |

### Analysis Batch: 242911

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 440-242352/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 242352 |
| MB 440-242352/1-A | Method Blank | Total/NA | Solid | 8015B | 242352 |

## Metals

### Prep Batch: 240678

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-1 | SB-10-5 | Total/NA | Solid | 3050B | |
| 440-103385-1 MS | SB-10-5 | Total/NA | Solid | 3050B | |
| 440-103385-1 MSD | SB-10-5 | Total/NA | Solid | 3050B | |
| 440-103385-2 | SB-10-10 | Total/NA | Solid | 3050B | |
| 440-103385-3 | SB-10-15 | Total/NA | Solid | 3050B | |
| 440-103385-4 | SB-10-20 | Total/NA | Solid | 3050B | |
| 440-103385-5 | SB-10-25 | Total/NA | Solid | 3050B | |
| 440-103385-6 | SB-10-30 | Total/NA | Solid | 3050B | |
| 440-103385-7 | SB-10-34.5 | Total/NA | Solid | 3050B | |
| 440-103385-8 | SB-13-5 | Total/NA | Solid | 3050B | |
| 440-103385-9 | SB-13-10 | Total/NA | Solid | 3050B | |
| 440-103385-10 | SB-13-15 | Total/NA | Solid | 3050B | |
| 440-103385-11 | SB-13-20 | Total/NA | Solid | 3050B | |
| 440-103385-12 | SB-13-25 | Total/NA | Solid | 3050B | |
| 440-103385-13 | SB-13-30 | Total/NA | Solid | 3050B | |
| 440-103385-14 | SB-13-34.5 | Total/NA | Solid | 3050B | |
| LCS 440-240678/2-A ^5 | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 440-240678/1-A ^5 | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 241857

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-1 | SB-10-5 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-1 MS | SB-10-5 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-1 MSD | SB-10-5 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-2 | SB-10-10 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-3 | SB-10-15 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-4 | SB-10-20 | Total/NA | Solid | 6010B | 240678 |

## Metals (Continued)

### Analysis Batch: 241857 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103385-5 | SB-10-25 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-6 | SB-10-30 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-7 | SB-10-34.5 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-8 | SB-13-5 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-9 | SB-13-10 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-10 | SB-13-15 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-11 | SB-13-20 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-12 | SB-13-25 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-13 | SB-13-30 | Total/NA | Solid | 6010B | 240678 |
| 440-103385-14 | SB-13-34.5 | Total/NA | Solid | 6010B | 240678 |
| LCS 440-240678/2-A ^5 | Lab Control Sample | Total/NA | Solid | 6010B | 240678 |
| MB 440-240678/1-A ^5 | Method Blank | Total/NA | Solid | 6010B | 240678 |

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD Recovery exceeds the control limits |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103385-1

## Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alaska | State Program | 10 | CA01531 | 06-30-15 |
| Arizona | State Program | 9 | AZ0671 | 10-13-15 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-15 |
| New Mexico | State Program | 6 | N/A | 01-29-15 * |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-15 * |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 06-06-15 |

* Certification renewal pending - certification considered valid.

# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**
- ☐ CALSCIENCE ( )
- ☐ SPL ( )
- ☐ XENCO ( )
- ☑ TEST AMERICA ( )
- ☐ OTHER ( )

**Please Check Appropriate Box:**
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

**Print Bill To Contact Name:** Katherine Ward 240503-15.04-xxxx

**PO #**

**INCIDENT # (ENV SERVICES):** 9 8 9 9 5 7 4 5

**SAP #:** 1 3 5 6 8 5

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2-27-15

PAGE: 1 of 2

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 6039 College Avenue, Oakland

State: CA

GLOBAL ID NO.: T10000005056

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shell.em.edf@craworld.com

CONSULTANT PROJECT NO.: 240503-15.04-xxxx

PROJECT CONTACT (Hardcopy or PDF Report to): Katherine Ward

SAMPLER NAME(S) (Print): Mike Lombard

LAB USE ONLY

TELEPHONE: 510-420-3367

FAX: 510-420-9170

E-MAIL: kward@craworld.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell.Lab.Billing@craworld.com

Encore samples have a hold time of 48 hours

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

TEMPERATURE ON RECEIPT C°: CS 4.0/3.2 IR-71

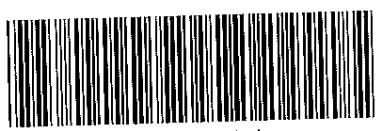
| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | [illegible] | TPH [illegible] | TPHd, [illegible] | TPHg [illegible] | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: (8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SB-10-5 | 2-27-15 | 0750 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-10-10 | | 0810 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-10-15 | | 0815 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-10-20 | | 0820 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-10-25 | | 0828 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-10-30 | | 0903 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-10-34.5 | | 0940 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-13-5 | | 1008 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-13-10 | | 1013 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |
| | SB-13-15 | | 1019 | SO | | | | | | 1 | | X | X | | X | | | | | X | X | X | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] 13/5 | [signature] | 3/2/15 | 1130 AM |
| [signature] 3/2/15 | [signature] | 3/3/15 | 9:35 |
| | | | |

Fed: 6329 1552 4949

05/2/08 Revision

44[illegible]385 Chain of Custody



Page 43 of 45

4/28/2015

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: Katherine Ward 240503-15.04-xxxx

INCIDENT # (ENV SERVICES): 98994574

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2-27-15

PAGE: 2 of 2

PO #:

SAP #: 135685

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 6039 College Avenue, Oakland

State: CA

GLOBAL ID NO.: T10000005056

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shell.em.edf@craworld.com

CONSULTANT PROJECT NO.: 240503-15.04-xxxx

PROJECT CONTACT (Hardcopy or PDF Report to): Katherine Ward

SAMPLER NAME(S) (Print): Mike Lombard

LAB USE ONLY

TELEPHONE: 510-420-3367

FAX: 510-420-9170

E-MAIL: kward@craworld.com

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

- ☐ LA - RWQCB REPORT FORMAT
- ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@craworld.com

Encore samples have a **hold time of 48 hours**

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C°: (CS) 4.0/3.2 IR-71

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. CONTAINERS | TPH-GRO, (8260B) | TPHd, (8015M) | TPHg (8260B) | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: ____ (8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SB-13-20 | 2-27-15 | 1032 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 02 | SB-13-25 | | 1128 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 03 | SB-13-30 | | 1143 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 04 | SB-13-34.5 | | 1150 | SO | | | | | | 1 | | X | X | | | X | | | | X | X | X | |
| 05 | SB-10-35W | | 1205 | W | X | | | | | 4 | | | X | | | X | | | | X | X | | |
| 06 | SB-13-25W | | 1108 | W | X | | | | | 4 | | | X | | | X | | | | X | X | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | | 3/2/15 | 1130 AM |
| 3/2/15 1315 | | 3/3/15 | 9:35 |
| | | | |

05/2/06 Revision

4/28/2015

# Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-103385-1

**Login Number: 103385**

**List Source: TestAmerica Irvine**

**List Number: 1**

**Creator: Freitag, Kevin R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-103536-1
Client Project/Site: 6039 College Ave., Oakland

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Ms. Katherine Ward

Heather Clark

*Authorized for release by:*
*3/19/2015 2:21:47 PM*

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 440-103536-4 | CRA-A | Solid | 02/27/15 11:30 | 03/03/15 09:35 |

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

## Job ID: 440-103536-1

**Laboratory: TestAmerica Irvine**

**Narrative**

**Job Narrative**
**440-103536-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 3/3/2015 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

**GC/MS VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix: CRA-A (440-103536-4). Elevated reporting limits (RLs) are provided.

BATCH# 242364
METHOD 3546 - 8015B - DIESEL - SOILS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

**Client Sample ID: CRA-A**
**Date Collected: 02/27/15 11:30**
**Date Received: 03/03/15 09:35**

**Lab Sample ID: 440-103536-4**
**Matrix: Solid**

### Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.098 | | mg/Kg | | | 03/07/15 16:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/07/15 16:51* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/07/15 16:51* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/07/15 16:51* | *1* |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00098 | | mg/Kg | | | 03/07/15 16:51 | 1 |
| Ethylbenzene | ND | | 0.00098 | | mg/Kg | | | 03/07/15 16:51 | 1 |
| **Toluene** | **0.0012** | | 0.00098 | | mg/Kg | | | 03/07/15 16:51 | 1 |
| Xylenes, Total | ND | | 0.0020 | | mg/Kg | | | 03/07/15 16:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *79 - 120* | | *03/07/15 16:51* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 120* | | *03/07/15 16:51* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *79 - 123* | | *03/07/15 16:51* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | | 10 | | mg/Kg | | 03/12/15 17:13 | 03/13/15 10:17 | 1 |
| ORO (C29-C40) | ND | | 10 | | mg/Kg | | 03/12/15 17:13 | 03/13/15 10:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *79* | | *40 - 140* | *03/12/15 17:13* | *03/13/15 10:17* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 9.9 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Arsenic** | **6.5** | | 3.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Barium** | **130** | | 1.5 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Beryllium** | **0.60** | | 0.50 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| Cadmium | ND | | 0.50 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Chromium** | **62** | | 0.99 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Cobalt** | **10** | | 0.99 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Copper** | **28** | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Lead** | **7.0** | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| Molybdenum | ND | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Nickel** | **70** | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| Selenium | ND | | 3.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| Thallium | ND | | 9.9 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Vanadium** | **55** | | 0.99 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| **Zinc** | **59** | | 5.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 14:09 | 5 |
| Silver | ND | | 1.5 | | mg/Kg | | 03/10/15 22:18 | 03/11/15 13:40 | 5 |

### Method: 6010B - Metals (ICP) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | ND | | 0.10 | | mg/L | | | 03/19/15 09:29 | 20 |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

**Client Sample ID: CRA-A**
**Date Collected: 02/27/15 11:30**
**Date Received: 03/03/15 09:35**

**Lab Sample ID: 440-103536-4**
**Matrix: Solid**

**Method: 7471A - Mercury (CVAA)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.34 | | 0.020 | | mg/Kg | | 03/11/15 18:06 | 03/11/15 22:07 | 1 |

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8260B/CA_LUFTMS | Volatile Organic Compounds by GC/MS | SW846 | TAL IRV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL IRV |
| 6010B | Metals (ICP) | SW846 | TAL IRV |
| 7471A | Mercury (CVAA) | SW846 | TAL IRV |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

## Client Sample ID: CRA-A

**Date Collected: 02/27/15 11:30**
**Date Received: 03/03/15 09:35**

## Lab Sample ID: 440-103536-4

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 5.09 g | 10 mL | 241122 | 03/07/15 16:51 | AA | TAL IRV |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 5.09 g | 10 mL | 241123 | 03/07/15 16:51 | AA | TAL IRV |
| Total/NA | Prep | 3546 | | | 7.49 g | 1 mL | 242364 | 03/12/15 17:13 | QCT | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 7.49 g | 1 mL | 242529 | 03/13/15 10:17 | KW | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 50.01 g | 500 mL | 243025 | 03/16/15 17:41 | EN | TAL IRV |
| STLC Citrate | Analysis | 6010B | | 20 | | | 243744 | 03/19/15 09:29 | VS | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.01 g | 50 mL | 241815 | 03/10/15 22:18 | CH | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.01 g | 50 mL | 242023 | 03/11/15 13:40 | TK | TAL IRV |
| Total/NA | Prep | 3050B | | | 2.02 g | 50 mL | 241413 | 03/09/15 14:40 | DT | TAL IRV |
| Total/NA | Analysis | 6010B | | 5 | 2.02 g | 50 mL | 241708 | 03/10/15 14:09 | EN | TAL IRV |
| Total/NA | Prep | 7471A | | | 0.50 g | 50 mL | 242085 | 03/11/15 18:06 | DB | TAL IRV |
| Total/NA | Analysis | 7471A | | 1 | 0.50 g | 50 mL | 242151 | 03/11/15 22:07 | DB | TAL IRV |

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-241122/4**
**Matrix: Solid**
**Analysis Batch: 241122**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0010 | | mg/Kg | | | 03/07/15 09:23 | 1 |
| Ethylbenzene | ND | | 0.0010 | | mg/Kg | | | 03/07/15 09:23 | 1 |
| Toluene | ND | | 0.0010 | | mg/Kg | | | 03/07/15 09:23 | 1 |
| Xylenes, Total | ND | | 0.0020 | | mg/Kg | | | 03/07/15 09:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/07/15 09:23* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/07/15 09:23* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/07/15 09:23* | *1* |

**Lab Sample ID: LCS 440-241122/5**
**Matrix: Solid**
**Analysis Batch: 241122**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.0500 | 0.0536 | | mg/Kg | | 107 | 65 - 120 | | |
| Ethylbenzene | | | 0.0500 | 0.0519 | | mg/Kg | | 104 | 70 - 125 | | |
| m,p-Xylene | | | 0.0500 | 0.0571 | | mg/Kg | | 114 | 70 - 125 | | |
| o-Xylene | | | 0.0500 | 0.0559 | | mg/Kg | | 112 | 70 - 125 | | |
| Toluene | | | 0.0500 | 0.0546 | | mg/Kg | | 109 | 70 - 125 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *79 - 123* |

**Lab Sample ID: 440-103666-E-4-A MSD**
**Matrix: Solid**
**Analysis Batch: 241122**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 241145**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0542 | 0.0597 | | mg/Kg | | 110 | 65 - 130 | 7 | 20 |
| Ethylbenzene | ND | | 0.0542 | 0.0574 | | mg/Kg | | 106 | 70 - 135 | 6 | 25 |
| m,p-Xylene | ND | | 0.0542 | 0.0631 | | mg/Kg | | 116 | 70 - 130 | 5 | 25 |
| o-Xylene | ND | | 0.0542 | 0.0614 | | mg/Kg | | 113 | 65 - 130 | 6 | 25 |
| Toluene | ND | | 0.0542 | 0.0602 | | mg/Kg | | 111 | 70 - 130 | 5 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-103666-G-4-A MS**
**Matrix: Solid**
**Analysis Batch: 241122**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 241145**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0541 | 0.0558 | | mg/Kg | | 103 | 65 - 130 |
| Ethylbenzene | ND | | 0.0541 | 0.0543 | | mg/Kg | | 100 | 70 - 135 |
| m,p-Xylene | ND | | 0.0541 | 0.0600 | | mg/Kg | | 111 | 70 - 130 |
| o-Xylene | ND | | 0.0541 | 0.0581 | | mg/Kg | | 107 | 65 - 130 |
| Toluene | ND | | 0.0541 | 0.0570 | | mg/Kg | | 105 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *79 - 123* |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-241123/4**
**Matrix: Solid**
**Analysis Batch: 241123**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 0.10 | | mg/Kg | | | 03/07/15 09:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* | | *03/07/15 09:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *79 - 120* | | *03/07/15 09:23* | *1* |
| *Toluene-d8 (Surr)* | *108* | | *79 - 123* | | *03/07/15 09:23* | *1* |

**Lab Sample ID: LCS 440-241123/6**
**Matrix: Solid**
**Analysis Batch: 241123**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | | | 1.00 | 0.788 | | mg/Kg | | 79 | 60 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *111* | | *79 - 123* |

**Lab Sample ID: 440-103666-E-4-A MSD**
**Matrix: Solid**
**Analysis Batch: 241123**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 241145**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.74 | 4.19 | | mg/Kg | | 112 | 55 - 140 | 10 | 25 |

## Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 440-103666-E-4-A MSD**
**Matrix: Solid**
**Analysis Batch: 241123**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 241145**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *106* | | *79 - 123* |

**Lab Sample ID: 440-103666-G-4-A MS**
**Matrix: Solid**
**Analysis Batch: 241123**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 241145**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Fuel Hydrocarbons (C4-C12) | ND | | 3.73 | 3.79 | | mg/Kg | | 102 | 55 - 140 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *79 - 120* |
| *Toluene-d8 (Surr)* | *105* | | *79 - 123* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: LCS 440-242364/2-A**
**Matrix: Solid**
**Analysis Batch: 242520**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 242364**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 66.7 | 62.9 | | mg/Kg | | 94 | 45 - 115 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane* | *94* | | *40 - 140* |

**Lab Sample ID: 440-103505-M-1-A MS**
**Matrix: Solid**
**Analysis Batch: 242520**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 242364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 100 | F1 | 66.2 | 92.1 | F1 | mg/Kg | | -18 | 40 - 120 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane* | *89* | | *40 - 140* |

**Lab Sample ID: 440-103505-M-1-B MSD**
**Matrix: Solid**
**Analysis Batch: 242520**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 242364**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 100 | F1 | 65.7 | 86.3 | F1 | mg/Kg | | -27 | 40 - 120 | 6 | 30 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 440-103505-M-1-B MSD**
**Matrix: Solid**
**Analysis Batch: 242520**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 242364**

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *83* | | *40 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-241413/1-A ^5**
**Matrix: Solid**
**Analysis Batch: 241708**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 241413**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 9.9 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Arsenic | ND | | 3.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Barium | ND | | 1.5 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Beryllium | ND | | 0.50 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Cadmium | ND | | 0.50 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Chromium | ND | | 0.99 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Cobalt | ND | | 0.99 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Copper | ND | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Lead | ND | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Molybdenum | ND | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Nickel | ND | | 2.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Selenium | ND | | 3.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Thallium | ND | | 9.9 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Vanadium | ND | | 0.99 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |
| Zinc | ND | | 5.0 | | mg/Kg | | 03/09/15 14:40 | 03/10/15 13:40 | 5 |

**Lab Sample ID: LCS 440-241413/2-A ^5**
**Matrix: Solid**
**Analysis Batch: 241708**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 241413**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 49.8 | 53.0 | | mg/Kg | | 106 | 80 - 120 |
| Arsenic | 49.8 | 50.0 | | mg/Kg | | 100 | 80 - 120 |
| Barium | 49.8 | 52.1 | | mg/Kg | | 105 | 80 - 120 |
| Beryllium | 49.8 | 50.0 | | mg/Kg | | 100 | 80 - 120 |
| Cadmium | 49.8 | 48.5 | | mg/Kg | | 98 | 80 - 120 |
| Chromium | 49.8 | 51.3 | | mg/Kg | | 103 | 80 - 120 |
| Cobalt | 49.8 | 51.5 | | mg/Kg | | 103 | 80 - 120 |
| Copper | 49.8 | 52.0 | | mg/Kg | | 104 | 80 - 120 |
| Lead | 49.8 | 51.4 | | mg/Kg | | 103 | 80 - 120 |
| Molybdenum | 49.8 | 51.3 | | mg/Kg | | 103 | 80 - 120 |
| Nickel | 49.8 | 51.8 | | mg/Kg | | 104 | 80 - 120 |
| Selenium | 49.8 | 46.3 | | mg/Kg | | 93 | 80 - 120 |
| Thallium | 49.8 | 50.0 | | mg/Kg | | 100 | 80 - 120 |
| Vanadium | 49.8 | 51.3 | | mg/Kg | | 103 | 80 - 120 |
| Zinc | 49.8 | 49.1 | | mg/Kg | | 99 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-103823-H-1-C MS ^5**
**Matrix: Solid**
**Analysis Batch: 241708**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 241413**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 50.0 | 51.3 | | mg/Kg | | 103 | 75 - 125 |
| Arsenic | 4.0 | | 50.0 | 53.5 | | mg/Kg | | 99 | 75 - 125 |
| Barium | 110 | | 50.0 | 163 | | mg/Kg | | 113 | 75 - 125 |
| Beryllium | ND | | 50.0 | 52.1 | | mg/Kg | | 103 | 75 - 125 |
| Cadmium | 0.68 | | 50.0 | 48.8 | | mg/Kg | | 96 | 75 - 125 |
| Chromium | 32 | | 50.0 | 84.5 | | mg/Kg | | 105 | 75 - 125 |
| Cobalt | 9.9 | | 50.0 | 61.4 | | mg/Kg | | 103 | 75 - 125 |
| Copper | 28 | | 50.0 | 84.6 | | mg/Kg | | 113 | 75 - 125 |
| Lead | 11 | | 50.0 | 60.5 | | mg/Kg | | 100 | 75 - 125 |
| Molybdenum | ND | | 50.0 | 51.1 | | mg/Kg | | 102 | 75 - 125 |
| Nickel | 21 | | 50.0 | 73.5 | | mg/Kg | | 105 | 75 - 125 |
| Selenium | ND | | 50.0 | 45.5 | | mg/Kg | | 91 | 75 - 125 |
| Thallium | ND | | 50.0 | 47.8 | | mg/Kg | | 96 | 75 - 125 |
| Vanadium | 60 | F1 | 50.0 | 122 | | mg/Kg | | 125 | 75 - 125 |
| Zinc | 65 | | 50.0 | 112 | | mg/Kg | | 95 | 75 - 125 |

**Lab Sample ID: 440-103823-H-1-D MSD ^5**
**Matrix: Solid**
**Analysis Batch: 241708**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 241413**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 49.5 | 50.2 | | mg/Kg | | 101 | 75 - 125 | 2 | 20 |
| Arsenic | 4.0 | | 49.5 | 52.5 | | mg/Kg | | 98 | 75 - 125 | 2 | 20 |
| Barium | 110 | | 49.5 | 161 | | mg/Kg | | 111 | 75 - 125 | 1 | 20 |
| Beryllium | ND | | 49.5 | 52.9 | | mg/Kg | | 106 | 75 - 125 | 1 | 20 |
| Cadmium | 0.68 | | 49.5 | 51.5 | | mg/Kg | | 103 | 75 - 125 | 5 | 20 |
| Chromium | 32 | | 49.5 | 88.2 | | mg/Kg | | 113 | 75 - 125 | 4 | 20 |
| Cobalt | 9.9 | | 49.5 | 61.0 | | mg/Kg | | 103 | 75 - 125 | 1 | 20 |
| Copper | 28 | | 49.5 | 86.0 | | mg/Kg | | 116 | 75 - 125 | 2 | 20 |
| Lead | 11 | | 49.5 | 57.6 | | mg/Kg | | 95 | 75 - 125 | 5 | 20 |
| Molybdenum | ND | | 49.5 | 50.8 | | mg/Kg | | 103 | 75 - 125 | 1 | 20 |
| Nickel | 21 | | 49.5 | 73.0 | | mg/Kg | | 105 | 75 - 125 | 1 | 20 |
| Selenium | ND | | 49.5 | 45.4 | | mg/Kg | | 92 | 75 - 125 | 0 | 20 |
| Thallium | ND | | 49.5 | 47.8 | | mg/Kg | | 97 | 75 - 125 | 0 | 20 |
| Vanadium | 60 | F1 | 49.5 | 124 | F1 | mg/Kg | | 130 | 75 - 125 | 1 | 20 |
| Zinc | 65 | | 49.5 | 113 | | mg/Kg | | 98 | 75 - 125 | 1 | 20 |

**Lab Sample ID: MB 440-241815/1-A**
**Matrix: Solid**
**Analysis Batch: 242023**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 241815**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.30 | | mg/Kg | | 03/10/15 22:18 | 03/11/15 12:33 | 1 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 440-241815/2-A ^5**
**Matrix: Solid**
**Analysis Batch: 242023**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 241815**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | | | 25.3 | 22.2 | | mg/Kg | | 88 | 80 - 120 | | |

**Lab Sample ID: 440-103823-H-1-H MS ^5**
**Matrix: Solid**
**Analysis Batch: 242023**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 241815**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 25.3 | 21.3 | | mg/Kg | | 85 | 75 - 125 | | |

**Lab Sample ID: 440-103823-H-1-I MSD ^5**
**Matrix: Solid**
**Analysis Batch: 242023**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 241815**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 25.3 | 21.2 | | mg/Kg | | 84 | 75 - 125 | 1 | 20 |

**Lab Sample ID: MB 440-243025/1-A ^20**
**Matrix: Solid**
**Analysis Batch: 243744**

**Client Sample ID: Method Blank**
**Prep Type: STLC Citrate**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | ND | | 0.10 | | mg/L | | | 03/19/15 09:23 | 20 |

**Lab Sample ID: LCS 440-243025/2-A ^20**
**Matrix: Solid**
**Analysis Batch: 243744**

**Client Sample ID: Lab Control Sample**
**Prep Type: STLC Citrate**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | | | 20.0 | 19.3 | | mg/L | | 97 | 80 - 120 | | |

**Lab Sample ID: 440-103536-4 MS**
**Matrix: Solid**
**Analysis Batch: 243744**

**Client Sample ID: CRA-A**
**Prep Type: STLC Citrate**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | ND | | 20.0 | 19.3 | | mg/L | | 96 | 75 - 125 | | |

**Lab Sample ID: 440-103536-4 MSD**
**Matrix: Solid**
**Analysis Batch: 243744**

**Client Sample ID: CRA-A**
**Prep Type: STLC Citrate**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | ND | | 20.0 | 18.8 | | mg/L | | 94 | 75 - 125 | 3 | 20 |

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 440-242085/1-A**
**Matrix: Solid**
**Analysis Batch: 242151**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 242085**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.020 | | mg/Kg | | 03/11/15 17:27 | 03/11/15 21:25 | 1 |

**Lab Sample ID: LCS 440-242085/2-A**
**Matrix: Solid**
**Analysis Batch: 242151**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 242085**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.800 | 0.895 | | mg/Kg | | 112 | 80 - 120 |

**Lab Sample ID: 440-103805-A-6-L MS**
**Matrix: Solid**
**Analysis Batch: 242151**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 242085**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.045 | | 0.816 | 0.920 | | mg/Kg | | 107 | 70 - 130 |

**Lab Sample ID: 440-103805-A-6-M MSD**
**Matrix: Solid**
**Analysis Batch: 242151**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 242085**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.045 | | 0.784 | 0.874 | | mg/Kg | | 106 | 70 - 130 | 5 | 20 |

## GC/MS VOA

### Analysis Batch: 241122

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 8260B | |
| 440-103666-E-4-A MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B | 241145 |
| 440-103666-G-4-A MS | Matrix Spike | Total/NA | Solid | 8260B | 241145 |
| LCS 440-241122/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 440-241122/4 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 241123

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 8260B/CA_LUFT MS | |
| 440-103666-E-4-A MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B/CA_LUFT MS | 241145 |
| 440-103666-G-4-A MS | Matrix Spike | Total/NA | Solid | 8260B/CA_LUFT MS | 241145 |
| LCS 440-241123/6 | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | |
| MB 440-241123/4 | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | |

### Prep Batch: 241145

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103666-E-4-A MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |
| 440-103666-G-4-A MS | Matrix Spike | Total/NA | Solid | 5035 | |

## GC Semi VOA

### Prep Batch: 242364

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103505-M-1-A MS | Matrix Spike | Total/NA | Solid | 3546 | |
| 440-103505-M-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 3546 | |
| 440-103536-4 | CRA-A | Total/NA | Solid | 3546 | |
| LCS 440-242364/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |

### Analysis Batch: 242520

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103505-M-1-A MS | Matrix Spike | Total/NA | Solid | 8015B | 242364 |
| 440-103505-M-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B | 242364 |
| LCS 440-242364/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 242364 |

### Analysis Batch: 242529

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 8015B | 242364 |

## Metals

### Prep Batch: 241413

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 3050B | |
| 440-103823-H-1-C MS ^5 | Matrix Spike | Total/NA | Solid | 3050B | |
| 440-103823-H-1-D MSD ^5 | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| LCS 440-241413/2-A ^5 | Lab Control Sample | Total/NA | Solid | 3050B | |

## Metals (Continued)

### Prep Batch: 241413 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 440-241413/1-A ^5 | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 241708

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 6010B | 241413 |
| 440-103823-H-1-C MS ^5 | Matrix Spike | Total/NA | Solid | 6010B | 241413 |
| 440-103823-H-1-D MSD ^5 | Matrix Spike Duplicate | Total/NA | Solid | 6010B | 241413 |
| LCS 440-241413/2-A ^5 | Lab Control Sample | Total/NA | Solid | 6010B | 241413 |
| MB 440-241413/1-A ^5 | Method Blank | Total/NA | Solid | 6010B | 241413 |

### Prep Batch: 241815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 3050B | |
| 440-103823-H-1-H MS ^5 | Matrix Spike | Total/NA | Solid | 3050B | |
| 440-103823-H-1-I MSD ^5 | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| LCS 440-241815/2-A ^5 | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 440-241815/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 242023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 6010B | 241815 |
| 440-103823-H-1-H MS ^5 | Matrix Spike | Total/NA | Solid | 6010B | 241815 |
| 440-103823-H-1-I MSD ^5 | Matrix Spike Duplicate | Total/NA | Solid | 6010B | 241815 |
| LCS 440-241815/2-A ^5 | Lab Control Sample | Total/NA | Solid | 6010B | 241815 |
| MB 440-241815/1-A | Method Blank | Total/NA | Solid | 6010B | 241815 |

### Prep Batch: 242085

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 7471A | |
| 440-103805-A-6-L MS | Matrix Spike | Total/NA | Solid | 7471A | |
| 440-103805-A-6-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471A | |
| LCS 440-242085/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 440-242085/1-A | Method Blank | Total/NA | Solid | 7471A | |

### Analysis Batch: 242151

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | Total/NA | Solid | 7471A | 242085 |
| 440-103805-A-6-L MS | Matrix Spike | Total/NA | Solid | 7471A | 242085 |
| 440-103805-A-6-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471A | 242085 |
| LCS 440-242085/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 242085 |
| MB 440-242085/1-A | Method Blank | Total/NA | Solid | 7471A | 242085 |

### Leach Batch: 243025

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | STLC Citrate | Solid | CA WET Citrate | |
| 440-103536-4 MS | CRA-A | STLC Citrate | Solid | CA WET Citrate | |
| 440-103536-4 MSD | CRA-A | STLC Citrate | Solid | CA WET Citrate | |
| LCS 440-243025/2-A ^20 | Lab Control Sample | STLC Citrate | Solid | CA WET Citrate | |
| MB 440-243025/1-A ^20 | Method Blank | STLC Citrate | Solid | CA WET Citrate | |

## Metals (Continued)

### Analysis Batch: 243744

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-103536-4 | CRA-A | STLC Citrate | Solid | 6010B | 243025 |
| 440-103536-4 MS | CRA-A | STLC Citrate | Solid | 6010B | 243025 |
| 440-103536-4 MSD | CRA-A | STLC Citrate | Solid | 6010B | 243025 |
| LCS 440-243025/2-A ^20 | Lab Control Sample | STLC Citrate | Solid | 6010B | 243025 |
| MB 440-243025/1-A ^20 | Method Blank | STLC Citrate | Solid | 6010B | 243025 |

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD Recovery exceeds the control limits |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD Recovery exceeds the control limits |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6039 College Ave., Oakland

TestAmerica Job ID: 440-103536-1

## Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alaska | State Program | 10 | CA01531 | 06-30-15 |
| Arizona | State Program | 9 | AZ0671 | 10-13-15 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-15 |
| New Mexico | State Program | 6 | N/A | 01-29-15 * |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-15 * |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 06-06-15 |

* Certification renewal pending - certification considered valid.

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Katherine Ward 240503-15.04-xxxx

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 4 5 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 1 3 5 6 8 5

DATE: 2-27-15

PAGE: 1 of 1

| | | | |
|---|---|---|---|
| SAMPLING COMPANY: Conestoga-Rovers & Associates | LOG CODE: CRAW | SITE ADDRESS: Street and City: 6039 College Ave. Oakland | State: CA |
| ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608 | | EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville | PHONE NO.: 510-420-3343 |
| PROJECT CONTACT (Hardcopy or PDF Report to): Katherine Ward | | E-MAIL: shelledf@craworld.com | CONSULTANT PROJECT NO.: 240503-15.04-xxxx |
| TELEPHONE: 510-420-3367 | FAX: 510-420-9170 | E-MAIL: kward@craworld.com | GLOBAL ID NO.: T10000005056 |
| SAMPLER NAME(S) (Print): Sampler's Name: Mike Lombard | | | LAB USE ONLY |

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:
Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

cc: Bbarlow@craworld.com, Derisman@craworld.com and Shell.Lab.Billing@craworld.com Call composite sample IDs and field point names. CRA-A, CRA-B, etc

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH - Purgeable (8260B) | TPH - Extractable (8015M) | BTEX (8260B) | 5 Oxygenates (8260B) | MTBE (8260B) | TBA (8260B) | DIPE (8260B) | TAME (8260B) | ETBE (8260B) | 1,2 DCA (8260B) | EDB (8260B) | Ethanol (8260B) | Methanol (8015M) | TPH - MO (8015M) | CAM17 Metals - Total (6010) | SVOCs (8270C) | VOCs (8260) | PCBs (8082) | Test for disposal (See Attached) | TEMPERATURE ON RECEIPT C° | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CRA-1 | 2-27-15 | 1130 | SO | | | | | | 1 | X | X | X | | | | | | | | | | | X | X | | | | X | (S) 4.0/3.2 | Please call |
| | CRA-2 | 2-27-15 | 1135 | SO | | | | | | 1 | X | X | X | | | | | | | | | | | X | X | | | | X | IR-71 | composite sample |
| | CRA-3 | 2-27-15 | 1140 | SO | | | | | | 1 | X | X | X | | | | | | | | | | | X | X | | | | X | | CRA-A |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Per Contingency Sheet, |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | for Solids & Liquids; |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | run STLC and / or TCLP |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | as needed. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Solids ONLY; |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | run Fish Toxicity |

440-103536 Chain of Custody

| | | | |
|---|---|---|---|
| Relinquished by (Signature): [signature] | Received by (Signature): [signature] | Date: 3/2/15 | Time: 1130 AM |
| Relinquished by (Signature): [signature] 3/2/15 1315 | Received by (Signature): [signature] | Date: 3/3/15 | Time: 9:35 |
| Relinquished by (Signature): | Received by (Signature): | Date: | Time: |

Fed-Ex 6329 1552 4949 1.4 C°

05/2/06 Revision

## California Contingent Analyses - Metals

| Metal | Trigger level TTLC (mg/kg) | Requirement (based on CCR 66261.24) [Both Solids and Liquids] |
|---|---|---|
| Antimony | 150 | STLC required if TTLC ≥ 150 mg/kg |
| Arsenic | 50/100 | STLC required if TTLC ≥ 50 mg/kg; TCLP required if TTLC ≥ 100 mg/kg |
| Barium | 1,000/2,000 | STLC required if TTLC ≥ 1,000 mg/kg; TCLP required if TTLC ≥ 2,000 mg/kg |
| Beryllium | 7.5 | STLC required if TTLC ≥ 7.5 mg/kg |
| Cadmium | 10/20 | STLC required if TTLC ≥ 10 mg/kg; TCLP required if TTLC ≥ 20 mg/kg |
| Chromium | 50/100 | STLC required if TTLC ≥ 50 mg/kg; TCLP required if TTLC ≥ 100 mg/kg |
| Cobalt | 800 | STLC required if TTLC ≥ 800 mg/kg |
| Copper | 250 | STLC required if TTLC ≥ 250 mg/kg |
| Lead | **13/50/100** | Organic lead required if TTLC lead ≥ 13 mg/kg STLC required if TTLC ≥ 50 mg/kg; TCLP required if TTLC ≥ 100 mg/kg |
| Mercury | 2/4 | STLC required if TTLC ≥ 2 mg/kg; TCLP required if TTLC ≥ 4 mg/kg |
| Molybdenum | 3,500 | STLC required if TTLC ≥ 350 mg/kg |
| Nickel | 200 | STLC required if TTLC ≥ 200 mg/kg |
| Selenium | 10/20 | STLC required if TTLC ≥ 10 mg/kg; TCLP required if TTLC ≥ 20 mg/kg |
| Silver | 50/100 | STLC required if TTLC ≥ 50 mg/kg; TCLP required if TTLC ≥ 100 mg/kg |
| Thallium | 70 | STLC required if TTLC ≥ 70 mg/kg |
| Vanadium | 240 | STLC required if TTLC ≥ 240 mg/kg |
| Zinc | 2,500 | STLC required if TTLC ≥ 2,500 mg/kg |

## California Contingent Analyses - Organics

| Organic Constituents | Trigger level TTLC (mg/kg) | Requirement (based on CCR 66261.24) [Both Solids and Liquids] |
|---|---|---|
| Benzene | 10 | TCLP benzene required if TTLC ≥ 10 mg/kg |
| Pentachlorophenol | 1.7 | STLC required if TTLC ≥ 1.7 |
| Trichloroethylene | 10/204 | STLC required if TTLC ≥ 10 mg/kg; TCLP required if TTLC ≥ 204 mg/kg |

| Organic Constituents | (mg/kg) | Requirements based on TSDF permits **[ONLY for Solids if they meet the below criteria]** |
|---|---|---|
| TPHd | 20,000 | Requires fish bioassay (Acute Aquatic 96 hr LC 50) |
| TPHg | 5,900 | Requires fish bioassay (Acute Aquatic 96 hr LC 50) |
| TPHmo | 10,000 | Requires fish bioassay (Acute Aquatic 96 hr LC 50) |
| TRPH (tot rec pet hc) | 5,000 | Requires fish bioassay (Acute Aquatic 96 hr LC 50) |

# Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-103536-1

**Login Number: 103536**

**List Source: TestAmerica Irvine**

**List Number: 1**

**Creator: Blocker, Kristina M**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | False | Compositing requested on the COC. |
| Residual Chlorine Checked. | N/A | |

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Supplemental Report 1

The original report has been revised/corrected.

# WORK ORDER NUMBER: 15-03-0698

*The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Conestoga-Rovers & Associates

**Client Project Name:** 6039 College Ave., Oakland, CA

**Attention:** Peter Schaefer
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Sheila Lau for

Approved for release on 04/28/2015 by:
Xuan Dang
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 15-03-0698


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# Work Order Narrative

Work Order: 15-03-0698 Page 1 of 1

**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 03/10/15. They were assigned to Work Order 15-03-0698.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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# Sample Summary

| | | | |
|---|---|---|---|
| Client: | Conestoga-Rovers & Associates<br>5900 Hollis Street, Suite A<br>Emeryville, CA 94608-2008 | Work Order: | 15-03-0698 |
| | | Project Name: | 6039 College Ave., Oakland, CA |
| | | PO Number: | |
| | | Date/Time Received: | 03/10/15 11:00 |
| | | Number of Containers: | 6 |
| Attn: | Peter Schaefer | | |

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|---|---|---|---|---|
| SVP-7 | 15-03-0698-1 | 03/09/15 12:04 | 1 | Air |
| SVP-8 | 15-03-0698-2 | 03/09/15 13:03 | 1 | Air |
| SVP-9 | 15-03-0698-3 | 03/09/15 10:24 | 1 | Air |
| SVP-10 | 15-03-0698-4 | 03/09/15 13:55 | 1 | Air |
| SVP-11 | 15-03-0698-5 | 03/09/15 11:05 | 2 | Air |

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# Case Narrative

Work Order: 15-03-0698 Page 1 of 1

**Modified EPA 8260 in Air**

This method is used to determine the concentration of BTEX/Oxygenates/Naphthalene having a vapor pressure greater than $10^{-1}$ torr at 25°C at standard pressure in a air matrix. The method is similar to EPA TO-15 and uses air standards for calibration. Method specifics are listed in the table below. A known volume of sample is directed from the container (Summa® canister or Tedlar™ bag) through a solid multi-module (glass beads, tenex, cryofocuser) concentrator. Following concentration, the VOCs are thermally desorbed onto a gas chromatographic column for separation and then detected on a mass selective detector.

**Comparison of Calscience TO-15 (Modified) versus EPA 8260 (Modified) in Air**

| Requirement | Calscience TO-15(M) | Calscience EPA 8260(M) in Air |
|---|---|---|
| BFB Acceptance Criteria | SW846 Protocol | SW846 Protocol |
| Initial Calibration | Allowable % RSD for each Target <= 30%, 10% of analytes allowed <= 40% | Allowable % RSD for each Target Analyte < 30%, 10% of analytes allowed < 40% |
| Initial Calibration Verification (ICV) - Second Source Standard (LCS) | Analytes contained in the LCS standard evaluated against historical control limits for the LCS | BTEX and MTBE only - <= 30%D |
| Daily Calibration Verification (CCV) | **Full List Analysis:** Allowable % Difference for each CCC analytes is <= 30% | BTEX and MTBE only - <= 30%D |
| | **Target List Analysis:** Allowable % Difference for each target analytes is <= 30% | |
| Daily Calibration Verification (CCV) - Internal Standard Area Response | Allowable +/- 50% (Range: 50% to 150%) | Allowable +/- 50% (Range: 50% to 150%) |
| Method Blank, Laboratory Control Sample and Sample - Internal Standard Area Response | Allowable +/- 50% of the mean area response of most recent Calibration Verification (Range: 50% to 150%) | Allowable +/- 50% of the mean area response of the most recent Calilbration Verification (Range: 50% to 150%) |
| Surrogates | 1,4-Bromoflurobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/- 3S | 1,4-Bromoflurobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/- 3S |

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# Detections Summary

| | | | |
|---|---|---|---|
| Client: | Conestoga-Rovers & Associates | Work Order: | 15-03-0698 |
| | 5900 Hollis Street, Suite A | Project Name: | 6039 College Ave., Oakland, CA |
| | Emeryville, CA 94608-2008 | Received: | 03/10/15 |
| Attn: | Peter Schaefer | | |



| Client SampleID / Analyte | Result | Qualifiers | RL | Units | Method | Extraction |
|---|---|---|---|---|---|---|
| SVP-7 (15-03-0698-1) | | | | | | |
| Carbon Dioxide | 12.2 | | 0.500 | %v | ASTM D-1946 | N/A |
| Oxygen (+ Argon) | 6.48 | | 0.500 | %v | ASTM D-1946 | N/A |
| TPH as Gasoline | 53000 | | 7000 | ug/m3 | EPA TO-3M | N/A |
| SVP-8 (15-03-0698-2) | | | | | | |
| Carbon Dioxide | 10.5 | | 0.500 | %v | ASTM D-1946 | N/A |
| Oxygen (+ Argon) | 7.20 | | 0.500 | %v | ASTM D-1946 | N/A |
| Helium | 0.343 | | 0.0100 | %v | ASTM D-1946 (M) | N/A |
| TPH as Gasoline | 46000 | | 7000 | ug/m3 | EPA TO-3M | N/A |
| SVP-9 (15-03-0698-3) | | | | | | |
| Carbon Dioxide | 1.91 | | 0.500 | %v | ASTM D-1946 | N/A |
| Oxygen (+ Argon) | 20.2 | | 0.500 | %v | ASTM D-1946 | N/A |
| Helium | 0.0111 | | 0.0100 | %v | ASTM D-1946 (M) | N/A |
| TPH as Gasoline | 35000 | | 7000 | ug/m3 | EPA TO-3M | N/A |
| SVP-10 (15-03-0698-4) | | | | | | |
| Carbon Dioxide | 6.50 | | 0.500 | %v | ASTM D-1946 | N/A |
| Oxygen (+ Argon) | 14.4 | | 0.500 | %v | ASTM D-1946 | N/A |
| Helium | 0.0734 | | 0.0100 | %v | ASTM D-1946 (M) | N/A |
| TPH as Gasoline | 18000 | | 7000 | ug/m3 | EPA TO-3M | N/A |
| SVP-11 (15-03-0698-5) | | | | | | |
| Carbon Dioxide | 5.69 | | 0.500 | %v | ASTM D-1946 | N/A |
| Oxygen (+ Argon) | 12.6 | | 0.500 | %v | ASTM D-1946 | N/A |
| Helium | 0.0250 | | 0.0100 | %v | ASTM D-1946 (M) | N/A |
| Naphthalene | 8.2 | | 2.0 | ng/sample | EPA TO-17 (M) | N/A |
| TPH as Gasoline | 27000 | | 7000 | ug/m3 | EPA TO-3M | N/A |

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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# Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 03/10/15
Work Order: 15-03-0698
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 6039 College Ave., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-7** | **15-03-0698-1-A** | **03/09/15 12:04** | **Air** | **GC 65** | **N/A** | **03/10/15 13:36** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Methane | ND | 0.500 | 1.00 | |
| Carbon Dioxide | 12.2 | 0.500 | 1.00 | |
| Oxygen (+ Argon) | 6.48 | 0.500 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-8** | **15-03-0698-2-A** | **03/09/15 13:03** | **Air** | **GC 65** | **N/A** | **03/10/15 13:55** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Methane | ND | 0.500 | 1.00 | |
| Carbon Dioxide | 10.5 | 0.500 | 1.00 | |
| Oxygen (+ Argon) | 7.20 | 0.500 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-9** | **15-03-0698-3-B** | **03/09/15 10:24** | **Air** | **GC 65** | **N/A** | **03/10/15 14:14** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Methane | ND | 0.500 | 1.00 | |
| Carbon Dioxide | 1.91 | 0.500 | 1.00 | |
| Oxygen (+ Argon) | 20.2 | 0.500 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-10** | **15-03-0698-4-A** | **03/09/15 13:55** | **Air** | **GC 65** | **N/A** | **03/10/15 14:35** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Methane | ND | 0.500 | 1.00 | |
| Carbon Dioxide | 6.50 | 0.500 | 1.00 | |
| Oxygen (+ Argon) | 14.4 | 0.500 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-11** | **15-03-0698-5-A** | **03/09/15 11:05** | **Air** | **GC 65** | **N/A** | **03/10/15 14:53** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Methane | ND | 0.500 | 1.00 | |
| Carbon Dioxide | 5.69 | 0.500 | 1.00 | |
| Oxygen (+ Argon) | 12.6 | 0.500 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 03/10/15
Work Order: 15-03-0698
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 6039 College Ave., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-16-444-157** | **N/A** | **Air** | **GC 65** | **N/A** | **03/10/15 10:28** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Methane | ND | 0.500 | 1.00 | |
| Carbon Dioxide | ND | 0.500 | 1.00 | |
| Oxygen (+ Argon) | ND | 0.500 | 1.00 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Project: 6039 College Ave., Oakland, CA

| | |
|---|---|
| Date Received: | 03/10/15 |
| Work Order: | 15-03-0698 |
| Preparation: | N/A |
| Method: | ASTM D-1946 (M) |
| Units: | %v |



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-7** | **15-03-0698-1-A** | **03/09/15 12:04** | **Air** | **GC 55** | **N/A** | **03/10/15 13:36** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Helium | ND | 0.0100 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-8** | **15-03-0698-2-A** | **03/09/15 13:03** | **Air** | **GC 55** | **N/A** | **03/10/15 13:57** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Helium | 0.343 | 0.0100 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-9** | **15-03-0698-3-B** | **03/09/15 10:24** | **Air** | **GC 55** | **N/A** | **03/10/15 14:41** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Helium | 0.0111 | 0.0100 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-10** | **15-03-0698-4-A** | **03/09/15 13:55** | **Air** | **GC 55** | **N/A** | **03/10/15 15:23** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Helium | 0.0734 | 0.0100 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-11** | **15-03-0698-5-A** | **03/09/15 11:05** | **Air** | **GC 55** | **N/A** | **03/10/15 16:15** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Helium | 0.0250 | 0.0100 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-12-872-772** | **N/A** | **Air** | **GC 55** | **N/A** | **03/10/15 10:17** | **150310L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Helium | ND | 0.0100 | 1.00 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Project: 6039 College Ave., Oakland, CA

Date Received: 03/10/15
Work Order: 15-03-0698
Preparation: N/A
Method: EPA 8260B (M)
Units: ug/m3



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-7** | **15-03-0698-1-A** | **03/09/15 12:04** | **Air** | **GC/MS II** | **N/A** | **03/11/15 05:29** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | ND | 52 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 88 | 47-156 | |
| 1,2-Dichloroethane-d4 | 81 | 47-156 | |
| Toluene-d8 | 95 | 47-156 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-8** | **15-03-0698-2-A** | **03/09/15 13:03** | **Air** | **GC/MS II** | **N/A** | **03/11/15 06:19** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | ND | 52 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 90 | 47-156 | |
| 1,2-Dichloroethane-d4 | 80 | 47-156 | |
| Toluene-d8 | 95 | 47-156 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-9** | **15-03-0698-3-B** | **03/09/15 10:24** | **Air** | **GC/MS II** | **N/A** | **03/10/15 18:00** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | ND | 65 | 1.24 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 105 | 47-156 | |
| 1,2-Dichloroethane-d4 | 92 | 47-156 | |
| Toluene-d8 | 95 | 47-156 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-10** | **15-03-0698-4-A** | **03/09/15 13:55** | **Air** | **GC/MS II** | **N/A** | **03/11/15 07:09** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | ND | 52 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 91 | 47-156 | |
| 1,2-Dichloroethane-d4 | 81 | 47-156 | |
| Toluene-d8 | 95 | 47-156 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA 8260B (M) |
| | | Units: | ug/m3 |
| Project: 6039 College Ave., Oakland, CA | | | Page 2 of 2 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-11** | **15-03-0698-5-A** | **03/09/15 11:05** | **Air** | **GC/MS II** | **N/A** | **03/11/15 08:01** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | ND | 52 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 89 | 47-156 | |
| 1,2-Dichloroethane-d4 | 80 | 47-156 | |
| Toluene-d8 | 95 | 47-156 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-13-041-1691** | **N/A** | **Air** | **GC/MS II** | **N/A** | **03/10/15 15:00** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | ND | 52 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 95 | 47-156 | |
| 1,2-Dichloroethane-d4 | 93 | 47-156 | |
| Toluene-d8 | 97 | 47-156 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA 8260B (M) |
| | | Units: | ug/m3 |
| Project: 6039 College Ave., Oakland, CA | | | Page 1 of 3 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-7** | **15-03-0698-1-A** | **03/09/15 12:04** | **Air** | **GC/MS II** | **N/A** | **03/11/15 05:29** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Benzene | ND | 16 | 1.00 | |
| 1,2-Dibromoethane | ND | 38 | 1.00 | |
| 1,2-Dichloroethane | ND | 20 | 1.00 | |
| Ethylbenzene | ND | 22 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 18 | 1.00 | |
| o-Xylene | ND | 22 | 1.00 | |
| p/m-Xylene | ND | 22 | 1.00 | |
| Xylenes (total) | ND | 22 | 1.00 | |
| Toluene | ND | 19 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 88 | 57-129 | |
| 1,2-Dichloroethane-d4 | 81 | 47-137 | |
| Toluene-d8 | 95 | 78-156 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-8** | **15-03-0698-2-A** | **03/09/15 13:03** | **Air** | **GC/MS II** | **N/A** | **03/11/15 06:19** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Benzene | ND | 16 | 1.00 | |
| 1,2-Dibromoethane | ND | 38 | 1.00 | |
| 1,2-Dichloroethane | ND | 20 | 1.00 | |
| Ethylbenzene | ND | 22 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 18 | 1.00 | |
| o-Xylene | ND | 22 | 1.00 | |
| p/m-Xylene | ND | 22 | 1.00 | |
| Xylenes (total) | ND | 22 | 1.00 | |
| Toluene | ND | 19 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 90 | 57-129 | |
| 1,2-Dichloroethane-d4 | 80 | 47-137 | |
| Toluene-d8 | 95 | 78-156 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA 8260B (M) |
| | | Units: | ug/m3 |
| Project: 6039 College Ave., Oakland, CA | | | Page 2 of 3 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-9** | **15-03-0698-3-B** | **03/09/15 10:24** | **Air** | **GC/MS II** | **N/A** | **03/10/15 18:00** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Benzene | ND | 20 | 1.24 | |
| 1,2-Dibromoethane | ND | 48 | 1.24 | |
| 1,2-Dichloroethane | ND | 25 | 1.24 | |
| Ethylbenzene | ND | 27 | 1.24 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 22 | 1.24 | |
| o-Xylene | ND | 27 | 1.24 | |
| p/m-Xylene | ND | 27 | 1.24 | |
| Xylenes (total) | ND | 27 | 1.00 | |
| Toluene | ND | 23 | 1.24 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 105 | 57-129 | |
| 1,2-Dichloroethane-d4 | 92 | 47-137 | |
| Toluene-d8 | 95 | 78-156 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-10** | **15-03-0698-4-A** | **03/09/15 13:55** | **Air** | **GC/MS II** | **N/A** | **03/11/15 07:09** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Benzene | ND | 16 | 1.00 | |
| 1,2-Dibromoethane | ND | 38 | 1.00 | |
| 1,2-Dichloroethane | ND | 20 | 1.00 | |
| Ethylbenzene | ND | 22 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 18 | 1.00 | |
| o-Xylene | ND | 22 | 1.00 | |
| p/m-Xylene | ND | 22 | 1.00 | |
| Xylenes (total) | ND | 22 | 1.00 | |
| Toluene | ND | 19 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 91 | 57-129 | |
| 1,2-Dichloroethane-d4 | 81 | 47-137 | |
| Toluene-d8 | 95 | 78-156 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA 8260B (M) |
| | | Units: | ug/m3 |
| Project: 6039 College Ave., Oakland, CA | | | Page 3 of 3 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-11** | **15-03-0698-5-A** | **03/09/15 11:05** | **Air** | **GC/MS II** | **N/A** | **03/11/15 08:01** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Benzene | ND | 16 | 1.00 | |
| 1,2-Dibromoethane | ND | 38 | 1.00 | |
| 1,2-Dichloroethane | ND | 20 | 1.00 | |
| Ethylbenzene | ND | 22 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 18 | 1.00 | |
| o-Xylene | ND | 22 | 1.00 | |
| p/m-Xylene | ND | 22 | 1.00 | |
| Xylenes (total) | ND | 22 | 1.00 | |
| Toluene | ND | 19 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 89 | 57-129 | |
| 1,2-Dichloroethane-d4 | 80 | 47-137 | |
| Toluene-d8 | 95 | 78-156 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-16-512-72** | **N/A** | **Air** | **GC/MS II** | **N/A** | **03/10/15 15:00** | **150310L04** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Benzene | ND | 16 | 1.00 | |
| 1,2-Dibromoethane | ND | 38 | 1.00 | |
| 1,2-Dichloroethane | ND | 20 | 1.00 | |
| Ethylbenzene | ND | 22 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 18 | 1.00 | |
| o-Xylene | ND | 22 | 1.00 | |
| p/m-Xylene | ND | 22 | 1.00 | |
| Xylenes (total) | ND | 22 | 1.00 | |
| Toluene | ND | 19 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 95 | 57-129 | |
| 1,2-Dichloroethane-d4 | 93 | 47-137 | |
| Toluene-d8 | 97 | 78-156 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Project: 6039 College Ave., Oakland, CA

Date Received: 03/10/15
Work Order: 15-03-0698
Preparation: N/A
Method: EPA TO-17 (M)
Units: ng/sample



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-11** | **15-03-0698-5-B** | **03/09/15 11:05** | **Air** | **GC/MS MMM** | **N/A** | **03/16/15 17:21** | **150316L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | 8.2 | 2.0 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 95 | 57-129 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-15-178-29** | **N/A** | **Air** | **GC/MS MMM** | **N/A** | **03/16/15 15:52** | **150316L01** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| Naphthalene | ND | 2.0 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|---|---|---|---|
| 1,4-Bromofluorobenzene | 99 | 57-129 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Analytical Report

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA TO-3M |
| | | Units: | ug/m3 |
| Project: 6039 College Ave., Oakland, CA | | | Page 1 of 1 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-7** | **15-03-0698-1-A** | **03/09/15 12:04** | **Air** | **GC 13** | **N/A** | **03/10/15 13:51** | **150310L02** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| TPH as Gasoline | 53000 | 7000 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-8** | **15-03-0698-2-A** | **03/09/15 13:03** | **Air** | **GC 13** | **N/A** | **03/10/15 14:13** | **150310L02** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| TPH as Gasoline | 46000 | 7000 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-9** | **15-03-0698-3-B** | **03/09/15 10:24** | **Air** | **GC 13** | **N/A** | **03/10/15 14:26** | **150310L02** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| TPH as Gasoline | 35000 | 7000 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-10** | **15-03-0698-4-A** | **03/09/15 13:55** | **Air** | **GC 13** | **N/A** | **03/10/15 14:37** | **150310L02** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| TPH as Gasoline | 18000 | 7000 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **SVP-11** | **15-03-0698-5-A** | **03/09/15 11:05** | **Air** | **GC 13** | **N/A** | **03/10/15 14:47** | **150310L02** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| TPH as Gasoline | 27000 | 7000 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **098-01-005-6161** | **N/A** | **Air** | **GC 13** | **N/A** | **03/10/15 09:09** | **150310L02** |

| Parameter | Result | RL | DF | Qualifiers |
|---|---|---|---|---|
| TPH as Gasoline | ND | 7000 | 1.00 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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# Quality Control - Sample Duplicate

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA TO-3M |
| Project: 6039 College Ave., Oakland, CA | | | Page 1 of 1 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---|---|---|---|---|---|---|
| **15-03-0712-4** | **Sample** | **Air** | **GC 13** | **N/A** | **03/10/15 17:51** | **150310D02** |
| **15-03-0712-4** | **Sample Duplicate** | **Air** | **GC 13** | **N/A** | **03/10/15 19:23** | **150310D02** |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|
| TPH as Gasoline | 13840 | 12830 | 8 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits

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# Quality Control - LCS/LCSD

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | ASTM D-1946 |
| Project: 6039 College Ave., Oakland, CA | | | Page 1 of 7 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|---|
| **099-16-444-157** | **LCS** | **Air** | **GC 65** | **N/A** | **03/10/15 09:51** | **150310L01** |
| **099-16-444-157** | **LCSD** | **Air** | **GC 65** | **N/A** | **03/10/15 10:09** | **150310L01** |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Methane | 4.500 | 4.326 | 96 | 4.330 | 96 | 80-120 | 0 | 0-30 | |
| Carbon Dioxide | 15.00 | 14.71 | 98 | 14.76 | 98 | 80-120 | 0 | 0-30 | |
| Carbon Monoxide | 6.990 | 6.681 | 96 | 6.684 | 96 | 80-120 | 0 | 0-30 | |
| Oxygen (+ Argon) | 4.010 | 4.124 | 103 | 4.137 | 103 | 80-120 | 0 | 0-30 | |
| Nitrogen | 69.50 | 69.18 | 100 | 69.26 | 100 | 80-120 | 0 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits

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# Quality Control - LCS/LCSD

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | ASTM D-1946 (M) |
| Project: 6039 College Ave., Oakland, CA | | | Page 2 of 7 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|---|
| **099-12-872-772** | **LCS** | **Air** | **GC 55** | **N/A** | **03/10/15 09:33** | **150310L01** |
| **099-12-872-772** | **LCSD** | **Air** | **GC 55** | **N/A** | **03/10/15 09:55** | **150310L01** |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Helium | 1.000 | 1.043 | 104 | 1.046 | 105 | 80-120 | 0 | 0-30 | |
| Hydrogen | 1.000 | 0.9757 | 98 | 0.9779 | 98 | 80-120 | 0 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits

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# Quality Control - LCS/LCSD

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA 8260B (M) |
| Project: 6039 College Ave., Oakland, CA | | | Page 3 of 7 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|---|
| **099-13-041-1691** | **LCS** | **Air** | **GC/MS II** | **N/A** | **03/10/15 12:29** | **150310L04** |
| **099-13-041-1691** | **LCSD** | **Air** | **GC/MS II** | **N/A** | **03/10/15 13:20** | **150310L04** |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 79.87 | 76.72 | 96 | 79.83 | 100 | 60-156 | 44-172 | 4 | 0-40 | |
| Toluene | 94.21 | 90.93 | 97 | 91.18 | 97 | 56-146 | 41-161 | 0 | 0-43 | |
| Ethylbenzene | 108.6 | 106.6 | 98 | 107.0 | 99 | 52-154 | 35-171 | 0 | 0-38 | |
| p/m-Xylene | 217.1 | 200.8 | 92 | 202.1 | 93 | 42-156 | 23-175 | 1 | 0-41 | |
| o-Xylene | 108.6 | 101.2 | 93 | 101.4 | 93 | 52-148 | 36-164 | 0 | 0-38 | |
| Methyl-t-Butyl Ether (MTBE) | 90.13 | 85.68 | 95 | 87.52 | 97 | 45-147 | 28-164 | 2 | 0-25 | |
| Tert-Butyl Alcohol (TBA) | 151.6 | 147.2 | 97 | 147.0 | 97 | 60-140 | 47-153 | 0 | 0-35 | |
| Diisopropyl Ether (DIPE) | 104.5 | 86.90 | 83 | 88.67 | 85 | 60-140 | 47-153 | 2 | 0-35 | |
| Ethyl-t-Butyl Ether (ETBE) | 104.5 | 97.28 | 93 | 100.1 | 96 | 60-140 | 47-153 | 3 | 0-35 | |
| Tert-Amyl-Methyl Ether (TAME) | 104.5 | 103.5 | 99 | 106.3 | 102 | 60-140 | 47-153 | 3 | 0-35 | |
| Naphthalene | 131.1 | 131.7 | 100 | 132.9 | 101 | 60-140 | 47-153 | 1 | 0-30 | |
| Ethanol | 188.4 | 166.0 | 88 | 170.1 | 90 | 47-137 | 32-152 | 2 | 0-35 | |
| 1,1-Difluoroethane | 67.54 | 60.09 | 89 | 61.06 | 90 | 78-156 | 65-169 | 2 | 0-35 | |
| Isopropanol | 61.45 | 52.62 | 86 | 54.00 | 88 | 78-156 | 65-169 | 3 | 0-35 | |

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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# Quality Control - LCS/LCSD

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Project: 6039 College Ave., Oakland, CA

Date Received: 03/10/15
Work Order: 15-03-0698
Preparation: N/A
Method: EPA 8260B (M)
Page 4 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|---|
| **099-16-512-72** | **LCS** | **Air** | **GC/MS II** | **N/A** | **03/10/15 12:29** | **150310L04** |
| **099-16-512-72** | **LCSD** | **Air** | **GC/MS II** | **N/A** | **03/10/15 13:20** | **150310L04** |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 79.87 | 76.72 | 96 | 79.83 | 100 | 60-156 | 44-172 | 4 | 0-40 | |
| Bromodichloromethane | 167.5 | 146.9 | 88 | 151.6 | 90 | 50-150 | 33-167 | 3 | 0-35 | |
| Bromoform | 258.4 | 242.8 | 94 | 243.6 | 94 | 50-150 | 33-167 | 0 | 0-38 | |
| Bromomethane | 97.08 | 77.88 | 80 | 79.73 | 82 | 50-150 | 33-167 | 2 | 0-35 | |
| Carbon Tetrachloride | 157.3 | 131.4 | 84 | 135.2 | 86 | 64-154 | 49-169 | 3 | 0-32 | |
| Chlorobenzene | 115.1 | 109.5 | 95 | 110.1 | 96 | 50-150 | 33-167 | 0 | 0-35 | |
| Chloroethane | 65.96 | 56.41 | 86 | 57.77 | 88 | 50-150 | 33-167 | 2 | 0-35 | |
| Chloroform | 122.1 | 101.9 | 83 | 103.3 | 85 | 50-150 | 33-167 | 1 | 0-35 | |
| Chloromethane | 51.63 | 44.85 | 87 | 45.05 | 87 | 50-150 | 33-167 | 0 | 0-35 | |
| Dibromochloromethane | 213.0 | 191.2 | 90 | 192.3 | 90 | 50-150 | 33-167 | 1 | 0-35 | |
| Dichlorodifluoromethane | 123.6 | 97.72 | 79 | 99.28 | 80 | 50-150 | 33-167 | 2 | 0-35 | |
| Diisopropyl Ether (DIPE) | 104.5 | 86.90 | 83 | 88.67 | 85 | 60-140 | 47-153 | 2 | 0-30 | |
| 1,1-Dichloroethane | 101.2 | 89.64 | 89 | 92.41 | 91 | 50-150 | 33-167 | 3 | 0-35 | |
| 1,1-Dichloroethene | 99.12 | 81.09 | 82 | 79.65 | 80 | 50-150 | 33-167 | 2 | 0-35 | |
| 1,2-Dibromoethane | 192.1 | 185.2 | 96 | 185.8 | 97 | 54-144 | 39-159 | 0 | 0-36 | |
| 1,2-Dichlorobenzene | 150.3 | 145.3 | 97 | 145.9 | 97 | 34-160 | 13-181 | 0 | 0-47 | |
| 1,2-Dichloroethane | 101.2 | 85.28 | 84 | 87.28 | 86 | 69-153 | 55-167 | 2 | 0-35 | |
| 1,2-Dichloropropane | 115.5 | 109.7 | 95 | 113.7 | 98 | 67-157 | 52-172 | 4 | 0-35 | |
| 1,3-Dichlorobenzene | 150.3 | 143.3 | 95 | 144.0 | 96 | 50-150 | 33-167 | 0 | 0-35 | |
| 1,4-Dichlorobenzene | 150.3 | 145.0 | 96 | 145.4 | 97 | 36-156 | 16-176 | 0 | 0-47 | |
| c-1,3-Dichloropropene | 113.5 | 117.5 | 104 | 121.5 | 107 | 61-157 | 45-173 | 3 | 0-35 | |
| c-1,2-Dichloroethene | 99.12 | 95.77 | 97 | 97.81 | 99 | 50-150 | 33-167 | 2 | 0-35 | |
| t-1,2-Dichloroethene | 99.12 | 92.89 | 94 | 94.97 | 96 | 50-150 | 33-167 | 2 | 0-35 | |
| t-1,3-Dichloropropene | 113.5 | 119.4 | 105 | 123.1 | 109 | 50-150 | 33-167 | 3 | 0-35 | |
| Ethyl-t-Butyl Ether (ETBE) | 104.5 | 97.28 | 93 | 100.1 | 96 | 60-140 | 47-153 | 3 | 0-30 | |
| Ethylbenzene | 108.6 | 106.6 | 98 | 107.0 | 99 | 52-154 | 35-171 | 0 | 0-38 | |
| 4-Ethyltoluene | 122.9 | 121.1 | 99 | 121.4 | 99 | 50-150 | 33-167 | 0 | 0-35 | |
| Methyl-t-Butyl Ether (MTBE) | 90.13 | 85.68 | 95 | 87.52 | 97 | 50-150 | 33-167 | 2 | 0-35 | |
| Methylene Chloride | 86.84 | 79.30 | 91 | 80.98 | 93 | 50-150 | 33-167 | 2 | 0-35 | |
| o-Xylene | 108.6 | 101.2 | 93 | 101.4 | 93 | 52-148 | 36-164 | 0 | 0-38 | |
| p/m-Xylene | 217.1 | 200.8 | 92 | 202.1 | 93 | 42-156 | 23-175 | 1 | 0-41 | |
| Styrene | 106.5 | 104.5 | 98 | 105.5 | 99 | 50-150 | 33-167 | 1 | 0-35 | |
| Tert-Amyl-Methyl Ether (TAME) | 104.5 | 103.5 | 99 | 106.3 | 102 | 60-140 | 47-153 | 3 | 0-30 | |
| Tert-Butyl Alcohol (TBA) | 151.6 | 147.2 | 97 | 147.0 | 97 | 60-140 | 47-153 | 0 | 0-30 | |
| Tetrachloroethene | 169.6 | 160.2 | 94 | 161.0 | 95 | 56-152 | 40-168 | 1 | 0-40 | |
| Toluene | 94.21 | 90.93 | 97 | 91.18 | 97 | 56-146 | 41-161 | 0 | 0-43 | |

RPD: Relative Percent Difference. CL: Control Limits

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# Quality Control - LCS/LCSD

| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | Preparation: | N/A |
| | Method: | EPA 8260B (M) |
| Project: 6039 College Ave., Oakland, CA | | Page 5 of 7 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 134.3 | 126.0 | 94 | 130.7 | 97 | 63-159 | 47-175 | 4 | 0-34 | |
| Trichlorofluoromethane | 140.5 | 104.5 | 74 | 106.9 | 76 | 50-150 | 33-167 | 2 | 0-35 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 191.6 | 165.0 | 86 | 168.2 | 88 | 50-150 | 33-167 | 2 | 0-35 | |
| 1,1,1-Trichloroethane | 136.4 | 115.8 | 85 | 117.1 | 86 | 50-150 | 33-167 | 1 | 0-35 | |
| 1,1,2-Trichloroethane | 136.4 | 125.8 | 92 | 131.0 | 96 | 65-149 | 51-163 | 4 | 0-37 | |
| 1,3,5-Trimethylbenzene | 122.9 | 116.6 | 95 | 116.4 | 95 | 50-150 | 33-167 | 0 | 0-35 | |
| 1,1,2,2-Tetrachloroethane | 171.6 | 153.3 | 89 | 153.5 | 89 | 50-150 | 33-167 | 0 | 0-35 | |
| 1,2,4-Trimethylbenzene | 122.9 | 110.9 | 90 | 111.0 | 90 | 50-150 | 33-167 | 0 | 0-35 | |
| 1,2,4-Trichlorobenzene | 185.5 | 201.9 | 109 | 201.1 | 108 | 50-150 | 33-167 | 0 | 0-35 | |
| Vinyl Chloride | 63.91 | 54.02 | 85 | 54.70 | 86 | 45-177 | 23-199 | 1 | 0-36 | |

Total number of LCS compounds: 46
Total number of ME compounds: 0
Total number of ME compounds allowed: 2
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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# Quality Control - LCS/LCSD

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA TO-17 (M) |
| Project: 6039 College Ave., Oakland, CA | | | Page 6 of 7 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|---|
| **099-15-178-29** | **LCS** | **Air** | **GC/MS MMM** | **N/A** | **03/16/15 13:15** | **150316L01** |
| **099-15-178-29** | **LCSD** | **Air** | **GC/MS MMM** | **N/A** | **03/16/15 14:14** | **150316L01** |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 100.0 | 84.46 | 84 | 96.57 | 97 | 40-190 | 13 | 0-35 | |

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RPD: Relative Percent Difference. CL: Control Limits

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# Quality Control - LCS

| | | | |
|---|---|---|---|
| Conestoga-Rovers & Associates | | Date Received: | 03/10/15 |
| 5900 Hollis Street, Suite A | | Work Order: | 15-03-0698 |
| Emeryville, CA 94608-2008 | | Preparation: | N/A |
| | | Method: | EPA TO-3M |
| Project: 6039 College Ave., Oakland, CA | | | Page 7 of 7 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS Batch Number |
|---|---|---|---|---|---|---|
| **098-01-005-6161** | **LCS** | **Air** | **GC 13** | **N/A** | **03/10/15 08:58** | **150310L02** |

| Parameter | Spike Added | Conc. Recovered | LCS %Rec. | %Rec. CL | Qualifiers |
|---|---|---|---|---|---|
| TPH as Gasoline | 932500 | 855800 | 92 | 80-120 | |

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RPD: Relative Percent Difference. CL: Control Limits

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# Glossary of Terms and Qualifiers

Work Order: 15-03-0698 Page 1 of 1

| Qualifiers | Definition |
|---|---|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| CI | See case narrative. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

**Please Check Appropriate Box:**
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

**Print Bill To Contact Name:** Katherine Ward 240503-15.04-xxxx

**INCIDENT # (ENV SERVICES):** 9 8 9 9 5 7 4 5 — [ ] CHECK IF NO INCIDENT # APPLIES

**PO #:**

**SAP #:** 1 3 5 6 8 5

DATE: 3-9-15

PAGE: 1 of 1

| | |
|---|---|
| SAMPLING COMPANY: | Conestoga-Rovers & Associates |
| LOG CODE: | CRAW |
| ADDRESS: | 5900 Hollis Street, Suite A, Emeryville, CA 94608 |
| PROJECT CONTACT (Hardcopy or PDF Report to): | Peter Schaefer, Katherine Ward |
| TELEPHONE: | 510-420-3367 |
| FAX: | 510-420-9170 |
| E-MAIL: | pschaefer@craworld.com kward@craworld.com |
| SITE ADDRESS: Street and City | 6039 College Avenue, Oakland |
| State | CA |
| GLOBAL ID NO.: | T10000005056 |
| EDF DELIVERABLE TO (Name, Company, Office Location): | Anni Kreml, CRA, Emeryville |
| PHONE NO.: | 510-420-3343 |
| E-MAIL: | shell.em.edf@craworld.com |
| CONSULTANT PROJECT NO.: | 240503-15.04-xxxx |
| SAMPLER NAME(S) (Print): | Mike Lombard |

LAB USE ONLY: 15-03-0698

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell.Lab.Billing@craworld.com

- [x] SHELL CONTRACT RATE APPLIES
- [x] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, (8260B) | TPHd, (8015M) | TPHg (8260B) | | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: (8260B) | 1,2-DCA, 1,2-DBA (8260B) | Naphthalene (8260B) | Total Lead (6010B) | Helium ASTMD 1649 (M) | Methane ASTMD 1946 | CO2 ASTMD 1946 | O2 ASTMD 1946 | Naphthalene (TO-17) | | | TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SVP-7 | 3-9-15 | 1204 | AIR | | | | | | 1 | | | X | | | X | | | | | X | X | | X | X | X | X | | | | |
| 2 | SVP-8 | | 1303 | AIR | | | | | | 1 | | | X | | | X | | | | | X | X | | X | X | X | X | | | | |
| 3 | SVP-9 | | 1024 | AIR | | | | | | 1 | | | X | | | X | | | | | X | X | | X | X | X | X | | | | |
| 4 | SVP-10 | | 1355 | AIR | | | | | | 1 | | | X | | | X | | | | | X | X | | X | X | X | X | | | | |
| 5 | SVP-11 | | 1105 | AIR | | | | | | 2 | | | X | | | X | | | | | X | X | | X | X | X | X | X | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature) Tom O'Malley ECI | Date: 3/9/15 | Time: 1600 |
| Relinquished by: (Signature) Tom O'Malley 7005D 3/9/15 1730 | Received by: (Signature) | Date: | Time: |
| Relinquished by: (Signature) | Received by: (Signature) | Date: 3/10/15 | Time: 1100 |

05/2/06 Revision



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GSO

800-322-5555 www.gso.com

0648

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
CB&I, PORT COSTA, PHILLIPS 66, CRA
Delivery Instructions:

Signature Type: REQUIRED

Tracking #: 527183040 EPS

ORC A
GARDEN GROVE

D92845A

35038439

Print Date: 3/9/2015 3:46 PM

LABEL INSTRUCTIONS:



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GSO

800-322-5555 www.gso.com

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
CRA
Delivery Instructions:

Signature Type: REQUIRED

Tracking #: 527184066 NPS

ORC A
GARDEN GROVE

D92845A

35041255

Print Date: 3/9/2015 4:15 PM

LABEL INSTRUCTIONS:

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WORK ORDER #: 15-03-0696

# SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA DATE: 03/10/15

**TEMPERATURE:** Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.4 °C + 0.2 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

**CUSTODY SEALS INTACT:**

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 15

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 3W

| SAMPLE CONDITION: | Yes | No | N/A |
|---|---|---|---|
| Chain-Of-Custody (COC) document(s) received with samples | ☑ | ☐ | ☐ |
| COC document(s) received complete | ☑ | ☐ | ☐ |
| ☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| ☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished. | | | |
| Sampler's name indicated on COC | ☑ | ☐ | ☐ |
| Sample container label(s) consistent with COC | ☑ | ☐ | ☐ |
| Sample container(s) intact and good condition | ☑ | ☐ | ☐ |
| Proper containers and sufficient volume for analyses requested | ☑ | ☐ | ☐ |
| Analyses received within holding time | ☑ | ☐ | ☐ |
| Aqueous samples received within 15-minute holding time | | | |
| ☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen | ☐ | ☐ | ☑ |
| Proper preservation noted on COC or sample container | ☐ | ☐ | ☑ |
| ☐ Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace | ☐ | ☐ | ☑ |
| Tedlar bag(s) free of condensation | ☐ | ☐ | ☑ |

**CONTAINER TYPE:**

**Solid:** ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

**Aqueous:** ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

**Air:** ☐Tedlar® ☐Canister **Other:** ☑ST **Trip Blank Lot#:**_____ Labeled/Checked by: 3W

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: ES

Preservative: **h:** HCL **n:** $HNO_3$ **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** $H_3PO_4$ **s:** $H_2SO_4$ **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 3W

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WORK ORDER #: 15-03-0698

# SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA

DATE: 03/10/15

**TEMPERATURE:** Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature ____.____ °C + 0.2 °C (CF) = ____.____ °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

**Ambient Temperature:** ☑ Air ☐ Filter **Checked by:** JS

**CUSTODY SEALS INTACT:**

☑ Box ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** JS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** JW

| **SAMPLE CONDITION:** | Yes | No | N/A |
|---|---|---|---|
| Chain-Of-Custody (COC) document(s) received with samples | ☑ | ☐ | ☐ |
| COC document(s) received complete | ☑ | ☐ | ☐ |
| ☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| ☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished. | | | |
| Sampler's name indicated on COC | ☑ | ☐ | ☐ |
| Sample container label(s) consistent with COC | ☑ | ☐ | ☐ |
| Sample container(s) intact and good condition | ☐ | ☑ | ☐ |
| Proper containers and sufficient volume for analyses requested | ☑ | ☐ | ☐ |
| Analyses received within holding time | ☑ | ☐ | ☐ |
| Aqueous samples received within 15-minute holding time | | | |
| ☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen | ☐ | ☐ | ☑ |
| Proper preservation noted on COC or sample container | ☐ | ☐ | ☑ |
| ☐ Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace | ☐ | ☐ | ☑ |
| Tedlar bag(s) free of condensation | ☑ | ☐ | ☐ |

**CONTAINER TYPE:**

**Solid:** ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

**Aqueous:** ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

**Air:** ☑Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** JW

**Container:** **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** RM

**Preservative:** **h:** HCL **n:** $HNO_3$ **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** $H_3PO_4$ **s:** $H_2SO_4$ **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** JW



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WORK ORDER #: 15-03-0698

# SAMPLE ANOMALY FORM

## SAMPLES - CONTAINERS & LABELS:

**Comments:**

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☑ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☑ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☑ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

(-3) SVP-9 received leaking on the base of the valve, low in volume.

## HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

| Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Cont. received | Analysis |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**Comments:** _____

*Transferred at Client's request.

Initial / Date: JVO 03/10/15



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# APPENDIX F

# WASTE DISPOSAL MANIFESTS

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|---|
| | NOT REQUIRED | 1 | 510-219-3082 | 07004117 |

**GENERATOR**

5. Generator's Name and Mailing Address
Shell Oil Products US c/o CRA, Attn: Derek Eisman
6520 Corporate Drive, Indianapolis, IN 46278
Generator's Phone: 317-291-7041

Generator's Site Address (if different than mailing address)
6039 College Avenue
Oakland, CA 94618

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Management - Altamont Landfill
10840 Altamont Pass Rd, Livermore, CA 94551
Facility's Phone: 925-455-7301 (Peggy)
U.S. EPA ID Number: NOT REQUIRED

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-Hazardous Waste Solid (Soil) | 005 | DM | 1100 | P | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

Received
05-08-2015
CRA, INC.
Indianapolis

13. Special Handling Instructions and Additional Information
Wear level D protective equipment while handling. Weights or volumes are approximate.

RIPR#: 104461 SAP#10008083
Incident#: 98985745
Profile#: 616757CA
Project #: 75006-6-23 CRA# 240503
3x55

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: AIS on Behalf of SOPUS - J. Sherman
Signature: MS
Month: 4 Day: 1 Year: 15

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARCO MARTINEZ
Signature: Marco Martinez
Month: 4 Day: 1 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: KATO
Signature
Month: 4 Day: 5 Year: 15

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| NOT REQUIRED | 1 | 800-424-9300 | 7004116 |

5. Generator's Name and Mailing Address
Shell Oil Products US c/o CRA
6520 Corporate Drive, Indianapolis, IN. 46278
Generator's Phone: 317-291-7041 Attn: Derek Elsman

Generator's Site Address (if different than mailing address)
6039 College Avenue
Oakland, CA 94618

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach, CA. 90813 562-432-5445
Facility's Phone:
U.S. EPA ID Number: CAD028406019

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-Hazardous Waste Liquid (Decon Water) | 001 | TT | 55 | G | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

Received
May 8, 2015
CRA, INC.
Indianapolis

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.
RIPR#: 104460 SAP#10008093
Incident#: 98995745 Profile#27578
Project #: 75003-6-23 CRA Project#240503
D115100 1455

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: AIS on behalf of SOPUS - J Sherman
Signature:
Month 4 Day 1 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARCO MARTINEZ
Signature:
Month 4 Day 1 Year 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17 Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

1135

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month 4 Day 16 Year 15