



Site Investigation Report
1002 East Seneca Street
Seattle, Washington

Prepared for:
Epstein Family, LLC
Seattle, Washington

Prepared by:
ENVIRON International Corporation
Seattle, Washington

Date:
January 2015

Project Number:
30-34760B



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1 Introduction

ENVIRON International Corporation (ENVIRON) was retained by Epstein Family, LLC (“owner”) to conduct a Site Investigation of potentially petroleum-contaminated soil at a commercial property located 1002 East Seneca Street, in Seattle, Washington (“site” or “facility”). ENVIRON’s investigation was completed in accordance with the scopes of work dated November 20th and December 16th of 2014. This report summarizes the field activities, including the advancement of soil borings and collection of surface- and below-grade-soil-samples, as well as analytical testing results.

1.1 Property Setting and Background

The 0.41-acre site is located in Seattle, Washington (Figure 1). The site is developed with a 14,160-square foot building, which is located on the western edge of the property. The site was most recently occupied by Lifelong AIDS Alliance, a non-profit organization that provides support services for people living with human immunodeficiency virus and acquired immunodeficiency syndrome (HIV and AIDS). The building has a ground-floor level and a basement (lower level) which housed office operations, conference room space, and a kitchen. To the east of the building is a paved parking lot. There are no other structures on the site. The site is flanked by East Seneca Street to the south and 10th Avenue to the west.

The Site is being redeveloped at present to accommodate a new child care facility. During construction, a petroleum odor was encountered by workers in the basement in October of 2014. Subsequently, approximately 1.5 cubic yards of soil was excavated from a small pit where the odor was reported to be the strongest (Figure 1) and soil samples were collected by the owners from the excavated material, as well as from the side and base of the pit and submitted to a Washington State certified laboratory on October 16th of 2014. The samples were analyzed for diesel and heavy oil range organics. Diesel was detected at a concentration of 3,010 milligrams per kilogram (mg/kg) in the excavated material (Table 1), which exceeds the Model Toxics Control Act (MTCA) Method A cleanup value. Diesel was also detected at concentrations of 1,940 mg/kg (for the sample collected from the bottom of the pit) and 1,480 mg/kg (for the sample collected from the side of the pit). Heavy oil was not detected in any of the samples collected.

As a result, ENVIRON was retained by the owner to complete a Site Investigation and preparation of a report for submittal to the Washington State Department of Ecology (Ecology).

1.2 Report Contents

Following the introductory section, this report summarizes field activities performed by ENVIRON, provides a discussion of laboratory analytical results (including data obtained by the owners), and provides conclusions and recommendation based on the field observations and analytical results. Relevant summary tables and figures are included, and laboratory results are provided in Appendix A.

2 Field Activities

ENVIRON's initial field activities were conducted on November 25th and December 11th and consisted of the non-invasive sampling from the surface of exposed soils in the basement of the facility to evaluate the need of further investigation. Once a more defined scope of work was developed, field investigation activities included conducting utility clearance, advancing soil borings, and collection of soil samples. These field activities were conducted from December 22nd to the 24th of 2014 and are further described below.

2.1 Pre-Field Activities

Prior to conducting any field activities, ENVIRON prepared a site-specific Health and Safety Plan to minimize exposure of ENVIRON's field personnel to potentially hazardous materials and physical hazards. As part of the initial sampling, ENVIRON also performed a site visit to review the planned investigation areas, and mark proposed drilling locations. ENVIRON contacted the Utility Notification Center to notify public and private utility agencies of ENVIRON's intent to drill at the site, and retained a private utility locator (Underground Detection Services of Seattle, Washington) to locate and mark subsurface utility lines in the vicinity of each boring location. ENVIRON also worked with the owner to obtain the required permits to advance soil borings in the sidewalk right-of-way that is located to the immediate south of the front entrance of the facility.

2.2 Soil Borings

ENVIRON advanced soil borings in the vicinity of the pit, where elevated concentrations of diesel had been identified in the soil samples collected by the owner (Figure 1). Soil borings SB1, SB2, SB3, and SB4 were advanced in the basement using a track-mounted, direct-push drill rig operated by Cascade Drilling, of Woodinville, Washington. At each location, continuous soil cores were collected to depths ranging from 1 to 6 feet below ground surface (bgs), whereupon there was refusal that likely resulted from a till-like unit. Soil borings SB5 and SB6 were advanced immediately south of the facility, in the sidewalk area that is situated one-story above the basement, using direct-push drilling to advance each boring to depths of up to 22 feet bgs. The soil in each interval was screened for the presence of organic vapors using a photoionization detector (PID) and for lithologic purposes.

In the basement area, soil samples were collected where the greatest impacts occurred (based on field screening) and/or at the greatest depth of the boring, with at least one sample collected from each boring. During field screening activities, the greatest impacts were observed SB1 and SB3 and, as a result, two samples were collected from each boring; one soil sample was collected from what appeared to be the most impacted depth and one sample was collected at the greatest depth. (One sample was collected each from borings SB2 and SB4, at the greatest depth.)

No impacted soils were observed in the soil borings advanced immediately south of the facility (SB5 and SB6) but two samples were collected from each boring; one from the approximate depth of the surface of the basement and one at the greatest depths that the borings were advanced.

Groundwater was not encountered during the advancement of any boring.

2.3 Sample Processing and Analytical Program

All soil samples collected were placed into laboratory prepared containers, labeled, recorded on a chain of custody form, and stored in a cooler with ice pending delivery to Freemont Analytical, a Washington-certified laboratory located in Seattle, Washington.

Soil samples collected by ENVIRON were analyzed for diesel and heavy range total petroleum hydrocarbons by method NWTPH Dx/Dx, Gasoline by NWTPH Gx, and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by USEPA Method 8260. The laboratory reports and chain-of-custody forms are included as Appendix A.

2.4 Investigation Derived Waste

Any soil cuttings from the drilling activities (soil borings), sampling, and equipment decontamination activities were placed in Department of Transportation (DOT)-rated 55-gallon drums and stored on the site pending analytical results for waste classification.

3 Soil Analytical Results

Diesel was not detected in any of the surface- or sub-surface samples collected as part of this investigation (Table 2). Detected concentration of heavy oil were observed in samples SB3-6-122214, SS02, SS03, SS06, SS07, and SS09, with a maximum value of 422 mg/kg (SS09) and all were well below the MTCA Method A level of 2,000 mg/kg for heavy oil in soils. Also, gasoline was not detected in any of the samples analyzed and the only BTEX constituent detected was xylene at concentrations at an order-of-magnitude less than the MTCA Method A value for total xylenes.

4 Conclusions and Recommendations

Based on the results of this investigation, the extent of diesel contamination above MTCA Method A criteria at the facility is limited to the pit area near the south wall of the basement, where the odor was originally observed. Furthermore, any vertical migration of diesel in this area was likely confined by the hard and till-like unit that resulted in refusal for all borings that were advanced in the basement.

As a result, ENVIRON recommends the following to ensure that the residual-petroleum contaminated soils are mitigated to protect human health and the environment, including the needs of the new intended tenant:

- Excavate soils from the pit area to the depth of refusal. The extent of this excavation would be based on field observations but would likely be limited and not extend beyond locations SS05, SS07, and SB03/SS02 (Figure 1);
- Containerize the excavated soil for subsequent analysis, transport, and disposal off-site; and
- Oversee the excavation activities performed and collect of confirmation soil samples to ensure soils impacted MTCA Method A criteria have been removed.

Tables

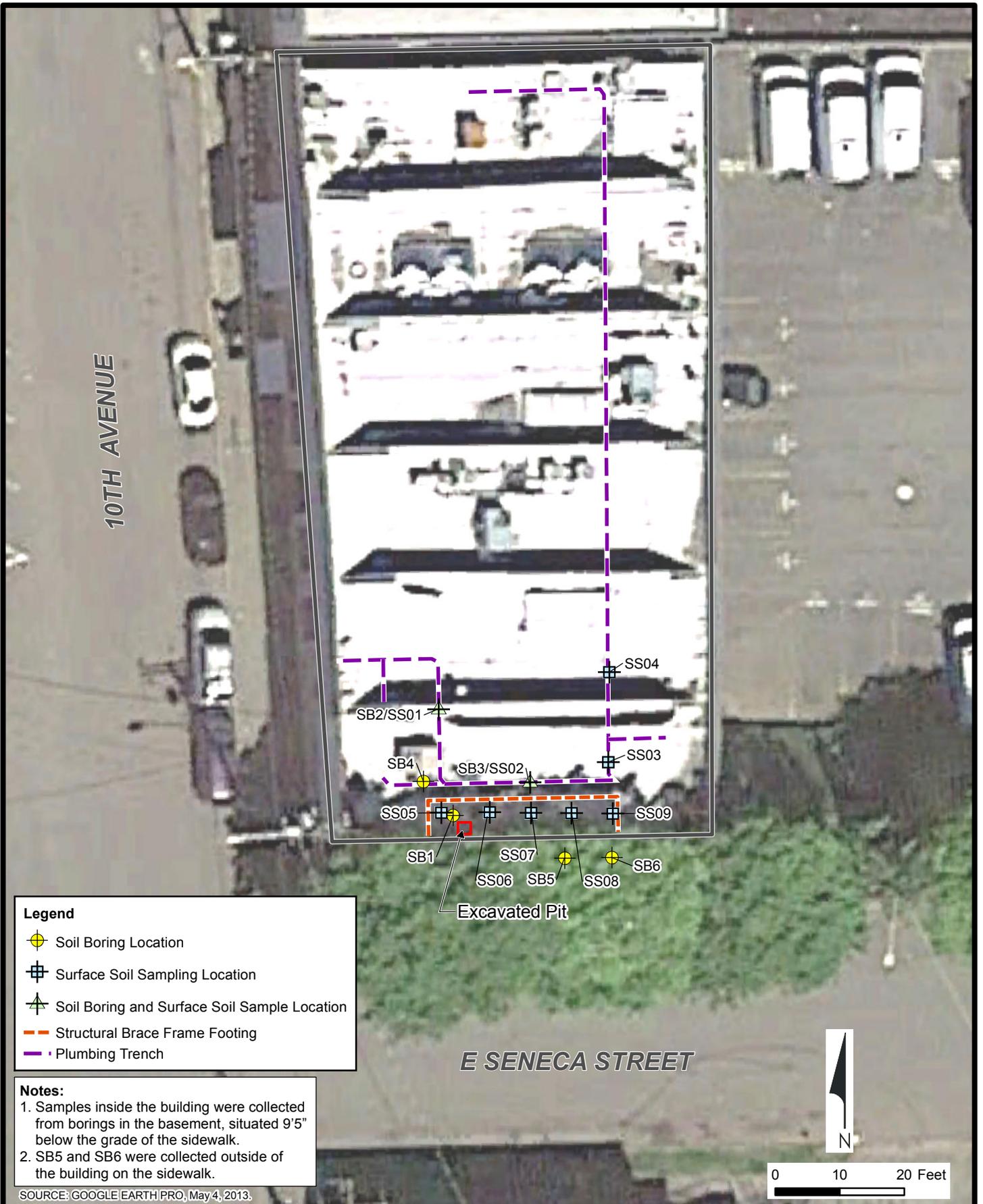
Table 1: Summary of Soil Sampling Performed by the Epsteins at 1002 E Seneca Street

| Sample Name | Sample Date | Type of Sample | Sample Depth (ft bgs) | Concentration (mg/Kg) | |
|--|-------------|----------------|--------------------------|-----------------------|-----------|
| | | | | Diesel (Fuel Oil) | Heavy Oil |
| 1 (Dirt Pile) | 10/16/2014 | Surface Soil | 2 | 3,010 | <49.2 |
| 2 Bottom | 10/16/2014 | Surface Soil | 3.5 | 1,940 | <45.9 |
| 3 Pit N Side Middle | 10/16/2014 | Surface Soil | 2 | 1,480 | <54.8 |
| MTCA Method A Soil Values | | | | 2,000 | 2,000 |
| <p>Notes: < = Concentration was below reporting limit, therefore non-detect Bolded values indicate concentrations exceeding MTCA Method A levels ft bgs = Feet below ground surface MTCA = Model Toxics Control Act mg/Kg = Milligrams per kilogram NA = Not applicable/not available</p> | | | | | |

Table 2: Summary of Detections in Soil at 1002 E Seneca Street

| Sample Name | Boring Location According to Figure 1 | Sample Date | Type of Sample | Sample Depth (ft bgs) | Concentration (mg/Kg) | | | | | | | |
|---|---------------------------------------|-------------|----------------|-----------------------|-----------------------|-----------|----------|---------|---------|--------------|--------------------------|----------|
| | | | | | Diesel (Fuel Oil) | Heavy Oil | Gasoline | Benzene | Toluene | Ethylbenzene | m,p-Xylene | o-Xylene |
| SB1-1-122214 | SB1 | 12/22/2014 | Soil Boring | 1 | <22.0 | <55.0 | <4.97 | <0.0199 | <0.0199 | <0.0298 | <0.0199 | <0.0199 |
| SB1-6-122214 | SB1 | 12/22/2014 | Soil Boring | 6 | <21.7 | <54.2 | <4.80 | <0.0192 | <0.0192 | <0.0288 | <0.0192 | <0.0192 |
| SB2-6-122214 | SB2/SS01 | 12/22/2014 | Soil Boring | 6 | <21.9 | <54.8 | <4.51 | <0.0181 | <0.0181 | <0.0271 | <0.0181 | <0.0181 |
| SB3-3-122214 | SB3/SS02 | 12/22/2014 | Soil Boring | 3 | <21.7 | <54.4 | <4.23 | <0.0169 | <0.0169 | <0.0254 | 0.103 | 0.0169 |
| SB3-6-122214 | SB3/SS02 | 12/22/2014 | Soil Boring | 6 | <21.8 | 73.0 | <5.05 | <0.0202 | <0.0202 | <0.0303 | <0.0202 | <0.0202 |
| SB4-4-122214 | SB4 | 12/22/2014 | Soil Boring | 4 | <22.1 | <55.3 | <4.67 | <0.0187 | <0.0187 | <0.0280 | <0.0187 | <0.0187 |
| SB5-11-122414 | SB5 | 12/24/2014 | Soil Boring | 11 | <19.7 | <49.2 | <5.0 | <0.0200 | <0.0200 | <0.0300 | <0.0200 | <0.0200 |
| SB5-22-122414 | SB5 | 12/24/2014 | Soil Boring | 22 | <20.5 | <51.3 | <4.28 | <0.0171 | <0.0171 | <0.0257 | <0.0171 | <0.0171 |
| SB6-11-122414 | SB6 | 12/24/2014 | Soil Boring | 11 | <22.0 | <55.0 | <4.96 | <0.0198 | <0.0198 | <0.0298 | <0.0198 | <0.0198 |
| SB6-18.5-122414 | SB6 | 12/24/2014 | Soil Boring | 18.5 | <18.7 | <46.9 | <6.96 | <0.0279 | <0.0279 | <0.0418 | <0.0279 | <0.0279 |
| SS01 | SB2/SS01 | 11/25/2014 | Surface Soil | 0-0.5 | <20.0 | <50.0 | <4.62 | <0.0185 | <0.0185 | <0.0277 | <0.0185 | <0.0185 |
| SS02 | SB3/SS02 | 11/25/2014 | Surface Soil | 0-0.5 | <21.4 | 235 | <4.72 | <0.0189 | <0.0189 | <0.0283 | <0.0189 | <0.0189 |
| SS03 | SS03 | 11/25/2014 | Surface Soil | 0-0.5 | <20.6 | 53 | <4.91 | <0.0197 | <0.0197 | <0.0295 | <0.0197 | <0.0197 |
| SS04 | SS04 | 11/25/2014 | Surface Soil | 0-0.5 | <22.1 | <55.4 | <4.83 | <0.0193 | <0.0193 | <0.0290 | <0.0193 | <0.0193 |
| SS05 | SS05 | 12/11/2014 | Surface Soil | 0-0.5 | <22.2 | <55.5 | <4.39 | <0.0176 | <0.0176 | <0.0263 | <0.0176 | <0.0176 |
| SS06 | SS06 | 12/11/2014 | Surface Soil | 0-0.5 | <21.3 | 336 | <4.80 | <0.0192 | <0.0192 | <0.0288 | <0.0192 | <0.0192 |
| SS07 | SS07 | 12/11/2014 | Surface Soil | 0-0.5 | <21.7 | 160 | <4.64 | <0.0186 | <0.0186 | <0.0278 | <0.0186 | <0.0186 |
| SS08 | SS08 | 12/11/2014 | Surface Soil | 0-0.5 | <19.2 | <47.9 | <6.18 | <0.0247 | <0.0247 | <0.0371 | <0.0247 | <0.0247 |
| SS09 | SS09 | 12/11/2014 | Surface Soil | 0-0.5 | <21.4 | 422 | <5.52 | <0.0221 | <0.0221 | <0.0331 | <0.0221 | <0.0221 |
| MTCA Method A Soil Values | | | | | 2,000 | 2,000 | 100 | 0.03 | 7.00 | 6.00 | 9.00 (for total xylenes) | |
| <p>Notes: < = Concentration was below reporting limit, therefore non-detect ft bgs = Feet below ground surface MTCA = Model Toxics Control Act mg/Kg = Milligrams per kilogram NA = Not applicable/not available</p> | | | | | | | | | | | | |

Figures



Legend

- Soil Boring Location
- Surface Soil Sampling Location
- Soil Boring and Surface Soil Sample Location
- Structural Brace Frame Footing
- Plumbing Trench

Notes:

1. Samples inside the building were collected from borings in the basement, situated 9'5" below the grade of the sidewalk.
2. SB5 and SB6 were collected outside of the building on the sidewalk.

SOURCE: GOOGLE EARTH PRO, May 4, 2013.

| | | |
|---|--|----------------------------|
|  | <p>Surface Soil Sampling and Soil Boring Locations Epstein Family LLC 1002 E Seneca Street Seattle, Washington 98122</p> | <p>Figure 1</p> |
|---|--|----------------------------|

| | | | | |
|-------------|-----------------|----------------------------|-----------|----------|
| Drafter: RS | Date: 1/16/2015 | Contract Number: 30-34760B | Approved: | Revised: |
|-------------|-----------------|----------------------------|-----------|----------|

Path: Q:\DRAWINGS\3034760b\3034760b-layout-seattle.mxd

Appendix A

Laboratory Results



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Epstein Family LLC
Steve Epstein
2308 48th Ave
Seattle, WA 98116

RE: Seneca
Lab ID: 1410180

October 20, 2014

Attention Steve Epstein:

Fremont Analytical, Inc. received 3 sample(s) on 10/16/2014 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway
President



Date: 10/20/2014

CLIENT: Epstein Family LLC
Project: Seneca
Lab Order: 1410180

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|---------------------|---------------------|--------------------|
| 1410180-001 | 1 (Dirt Pile) | 10/16/2014 4:40 PM | 10/16/2014 5:45 PM |
| 1410180-002 | 2 Bottom | 10/16/2014 4:45 PM | 10/16/2014 5:45 PM |
| 1410180-003 | 3 Pit N Side Middle | 10/16/2014 4:50 PM | 10/16/2014 5:45 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Epstein Family LLC

Project: Seneca

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



CLIENT: Epstein Family LLC

Project: Seneca

Lab ID: 1410180-001

Collection Date: 10/16/2014 4:40:00 PM

Client Sample ID: 1 (Dirt Pile)

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-----------|----------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9043 | Analyst: EC |
| Diesel (Fuel Oil) | 3,010 | 19.7 | | mg/Kg-dry | 1 | 10/17/2014 5:48:00 PM |
| Heavy Oil | ND | 49.2 | | mg/Kg-dry | 1 | 10/17/2014 5:48:00 PM |
| Surr: 2-Fluorobiphenyl | 95.9 | 50-150 | | %REC | 1 | 10/17/2014 5:48:00 PM |
| Surr: o-Terphenyl | 97.8 | 50-150 | | %REC | 1 | 10/17/2014 5:48:00 PM |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----|------|-------|------------------|-----------------------|
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R17468 | Analyst: KZ |
| Percent Moisture | 8.44 | | | wt% | 1 | 10/17/2014 1:26:27 PM |

Lab ID: 1410180-002

Collection Date: 10/16/2014 4:45:00 PM

Client Sample ID: 2 Bottom

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-----------|----------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9043 | Analyst: EC |
| Diesel (Fuel Oil) | 1,940 | 18.4 | | mg/Kg-dry | 1 | 10/17/2014 6:20:00 PM |
| Heavy Oil | ND | 45.9 | | mg/Kg-dry | 1 | 10/17/2014 6:20:00 PM |
| Surr: 2-Fluorobiphenyl | 102 | 50-150 | | %REC | 1 | 10/17/2014 6:20:00 PM |
| Surr: o-Terphenyl | 109 | 50-150 | | %REC | 1 | 10/17/2014 6:20:00 PM |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----|------|-------|------------------|-----------------------|
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R17468 | Analyst: KZ |
| Percent Moisture | 8.48 | | | wt% | 1 | 10/17/2014 1:26:27 PM |

Qualifiers:

| | | | |
|----|---|----|--|
| B | Analyte detected in the associated Method Blank | D | Dilution was required |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |



CLIENT: Epstein Family LLC

Project: Seneca

Lab ID: 1410180-003

Collection Date: 10/16/2014 4:50:00 PM

Client Sample ID: 3 Pit N Side Middle

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-----------|------------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9043 | Analyst: EC |
| Diesel (Fuel Oil) | 1,480 | 21.9 | | mg/Kg-dry | 1 | 10/20/2014 9:02:00 AM |
| Heavy Oil | ND | 54.8 | | mg/Kg-dry | 1 | 10/20/2014 9:02:00 AM |
| Surr: 2-Fluorobiphenyl | 91.9 | 50-150 | | %REC | 1 | 10/20/2014 9:02:00 AM |
| Surr: o-Terphenyl | 87.4 | 50-150 | | %REC | 1 | 10/20/2014 9:02:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R17468 | Analyst: KZ |
| Percent Moisture | 10.2 | | | wt% | 1 | 10/17/2014 1:26:27 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1410180
CLIENT: Epstein Family LLC
Project: Seneca

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Sample ID: LCS-9043 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 10/17/2014 | RunNo: 17484 | | | | |
|----------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9043 | | | | | Analysis Date: 10/17/2014 | SeqNo: 349065 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|---|------|----|-----|--|--|--|--|
| Diesel (Fuel Oil) | 453 | 20.0 | 500.0 | 0 | 90.6 | 65 | 135 | | | | |
| Surr: 2-Fluorobiphenyl | 21.3 | | 20.00 | | 107 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 19.4 | | 20.00 | | 97.1 | 50 | 150 | | | | |

| Sample ID: MB-9043 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 10/17/2014 | RunNo: 17484 | | | | |
|---------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9043 | | | | | Analysis Date: 10/20/2014 | SeqNo: 349175 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|--|------|----|-----|--|--|--|--|
| Diesel (Fuel Oil) | ND | 20.0 | | | | | | | | | |
| Heavy Oil | ND | 50.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 17.4 | | 20.00 | | 87.1 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 16.3 | | 20.00 | | 81.7 | 50 | 150 | | | | |

| Sample ID: 1410180-003ADUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 10/17/2014 | RunNo: 17484 | | | | |
|---------------------------------------|-----------------------|-------------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: 3 Pit N Side Middle | Batch ID: 9043 | | | | | Analysis Date: 10/20/2014 | SeqNo: 349234 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|-------|------|-------|--|------|----|-----|-------|------|----|--|
| Diesel (Fuel Oil) | 1,200 | 21.9 | | | | | | 1,478 | 20.3 | 30 | |
| Heavy Oil | ND | 54.7 | | | | | | 0 | | 30 | |
| Surr: 2-Fluorobiphenyl | 20.1 | | 21.89 | | 92.0 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 19.5 | | 21.89 | | 88.9 | 50 | 150 | | 0 | | |

| Sample ID: CCV-DX-9043B | SampType: CCV | Units: mg/Kg | | | | Prep Date: 10/20/2014 | RunNo: 17484 | | | | |
|--------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 9043 | | | | | Analysis Date: 10/20/2014 | SeqNo: 349235 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-----|------|-------|---|------|----|-----|--|--|--|--|
| Diesel (Fuel Oil) | 460 | 20.0 | 500.0 | 0 | 92.0 | 80 | 120 | | | | |
|-------------------|-----|------|-------|---|------|----|-----|--|--|--|--|

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1410180
CLIENT: Epstein Family LLC
Project: Seneca

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Sample ID: CCV-DX-9043B | SampType: CCV | Units: mg/Kg | | | | Prep Date: 10/20/2014 | RunNo: 17484 | | | | |
|--------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 9043 | | | | | Analysis Date: 10/20/2014 | SeqNo: 349235 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|--|-------|--|-----|----|-----|--|--|--|--|
| Surr: 2-Fluorobiphenyl | 21.5 | | 20.00 | | 108 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 21.4 | | 20.00 | | 107 | 50 | 150 | | | | |

| Sample ID: CCV-OIL-9043B | SampType: CCV | Units: mg/Kg | | | | Prep Date: 10/20/2014 | RunNo: 17484 | | | | |
|---------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 9043 | | | | | Analysis Date: 10/20/2014 | SeqNo: 349236 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|---|------|----|-----|--|--|--|--|
| Heavy Oil | 946 | 50.0 | 1,000 | 0 | 94.6 | 80 | 120 | | | | |
| Surr: 2-Fluorobiphenyl | 17.7 | | 20.00 | | 88.6 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 18.1 | | 20.00 | | 90.6 | 50 | 150 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Client Name: **EPSTEIN**
 Logged by: **Clare Griggs**

Work Order Number: **1410180**
 Date Received: **10/16/2014 5:45:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Sample received straight from field.
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Environ International Corporation

Ken Ames

901 5th Ave., Ste. 2820

Seattle, WA 98164

RE: Seneca St (Epstein)

Lab ID: 1411265

December 02, 2014

Attention Ken Ames:

Fremont Analytical, Inc. received 6 sample(s) on 11/25/2014 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward
Project Manager

CC:

Amy Kephart



Date: 12/02/2014

CLIENT: Environ International Corporation
Project: Seneca St (Epstein)
Lab Order: 1411265

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1411265-001 | SS01 | 11/25/2014 10:45 AM | 11/25/2014 1:10 PM |
| 1411265-002 | SS02 | 11/25/2014 10:55 AM | 11/25/2014 1:10 PM |
| 1411265-003 | SS03 | 11/25/2014 11:05 AM | 11/25/2014 1:10 PM |
| 1411265-004 | SS04 | 11/25/2014 11:17 AM | 11/25/2014 1:10 PM |
| 1411265-005 | SP01 | 11/25/2014 11:20 AM | 11/25/2014 1:10 PM |
| 1411265-006 | Trip Blank | 11/24/2014 10:30 AM | 11/25/2014 1:10 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Environ International Corporation**Project:** Seneca St (Epstein)

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1411265

Date Reported: 12/2/2014

Client: Environ International Corporation

Collection Date: 11/25/2014 10:45:00 AM

Project: Seneca St (Epstein)

Lab ID: 1411265-001

Matrix: Soil

Client Sample ID: SS01

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|-----------|------------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9441 | Analyst: EC |
| Diesel (Fuel Oil) | ND | 20.0 | | mg/Kg-dry | 1 | 11/26/2014 3:07:00 AM |
| Heavy Oil | ND | 50.0 | | mg/Kg-dry | 1 | 11/26/2014 3:07:00 AM |
| Surr: 2-Fluorobiphenyl | 98.3 | 50-150 | | %REC | 1 | 11/26/2014 3:07:00 AM |
| Surr: o-Terphenyl | 98.0 | 50-150 | | %REC | 1 | 11/26/2014 3:07:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | | | Batch ID: 9469 | Analyst: BC |
| Gasoline | ND | 4.62 | | mg/Kg-dry | 1 | 11/27/2014 5:27:00 PM |
| Surr: 4-Bromofluorobenzene | 99.5 | 65-135 | | %REC | 1 | 11/27/2014 5:27:00 PM |
| Surr: Toluene-d8 | 101 | 65-135 | | %REC | 1 | 11/27/2014 5:27:00 PM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | | Batch ID: 9469 | Analyst: EM |
| Benzene | ND | 0.0185 | | mg/Kg-dry | 1 | 11/27/2014 5:27:00 PM |
| Toluene | ND | 0.0185 | | mg/Kg-dry | 1 | 11/27/2014 5:27:00 PM |
| Ethylbenzene | ND | 0.0277 | | mg/Kg-dry | 1 | 11/27/2014 5:27:00 PM |
| m,p-Xylene | ND | 0.0185 | | mg/Kg-dry | 1 | 11/27/2014 5:27:00 PM |
| o-Xylene | ND | 0.0185 | | mg/Kg-dry | 1 | 11/27/2014 5:27:00 PM |
| Surr: Dibromofluoromethane | 91.7 | 63.7-129 | | %REC | 1 | 11/27/2014 5:27:00 PM |
| Surr: Toluene-d8 | 102 | 64.3-131 | | %REC | 1 | 11/27/2014 5:27:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 98.0 | 63.1-141 | | %REC | 1 | 11/27/2014 5:27:00 PM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R18296 | Analyst: SL |
| Percent Moisture | 13.1 | | | wt% | 1 | 11/25/2014 2:28:00 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1411265

Date Reported: 12/2/2014

Client: Environ International Corporation

Collection Date: 11/25/2014 10:55:00 AM

Project: Seneca St (Epstein)

Lab ID: 1411265-002

Matrix: Soil

Client Sample ID: SS02

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9441 | | Analyst: EC | |
| Diesel (Fuel Oil) | ND | 21.4 | | mg/Kg-dry | 1 | 11/26/2014 3:38:00 AM |
| Heavy Oil | 235 | 53.4 | | mg/Kg-dry | 1 | 11/26/2014 3:38:00 AM |
| Surr: 2-Fluorobiphenyl | 98.5 | 50-150 | | %REC | 1 | 11/26/2014 3:38:00 AM |
| Surr: o-Terphenyl | 98.3 | 50-150 | | %REC | 1 | 11/26/2014 3:38:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9469 | | Analyst: BC | |
| Gasoline | ND | 4.72 | | mg/Kg-dry | 1 | 11/27/2014 5:56:00 PM |
| Surr: 4-Bromofluorobenzene | 97.8 | 65-135 | | %REC | 1 | 11/27/2014 5:56:00 PM |
| Surr: Toluene-d8 | 101 | 65-135 | | %REC | 1 | 11/27/2014 5:56:00 PM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9469 | | Analyst: EM | |
| Benzene | ND | 0.0189 | | mg/Kg-dry | 1 | 11/27/2014 5:56:00 PM |
| Toluene | ND | 0.0189 | | mg/Kg-dry | 1 | 11/27/2014 5:56:00 PM |
| Ethylbenzene | ND | 0.0283 | | mg/Kg-dry | 1 | 11/27/2014 5:56:00 PM |
| m,p-Xylene | ND | 0.0189 | | mg/Kg-dry | 1 | 11/27/2014 5:56:00 PM |
| o-Xylene | ND | 0.0189 | | mg/Kg-dry | 1 | 11/27/2014 5:56:00 PM |
| Surr: Dibromofluoromethane | 91.0 | 63.7-129 | | %REC | 1 | 11/27/2014 5:56:00 PM |
| Surr: Toluene-d8 | 101 | 64.3-131 | | %REC | 1 | 11/27/2014 5:56:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 96.1 | 63.1-141 | | %REC | 1 | 11/27/2014 5:56:00 PM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18296 | | Analyst: SL | |
| Percent Moisture | 9.08 | | | wt% | 1 | 11/25/2014 2:28:00 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1411265

Date Reported: 12/2/2014

Client: Environ International Corporation

Collection Date: 11/25/2014 11:05:00 AM

Project: Seneca St (Epstein)

Lab ID: 1411265-003

Matrix: Soil

Client Sample ID: SS03

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9441 | | Analyst: EC | |
| Diesel (Fuel Oil) | ND | 20.6 | | mg/Kg-dry | 1 | 11/26/2014 4:10:00 AM |
| Heavy Oil | 53.0 | 51.4 | | mg/Kg-dry | 1 | 11/26/2014 4:10:00 AM |
| Surr: 2-Fluorobiphenyl | 98.8 | 50-150 | | %REC | 1 | 11/26/2014 4:10:00 AM |
| Surr: o-Terphenyl | 98.9 | 50-150 | | %REC | 1 | 11/26/2014 4:10:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9469 | | Analyst: BC | |
| Gasoline | ND | 4.91 | | mg/Kg-dry | 1 | 11/27/2014 6:55:00 PM |
| Surr: 4-Bromofluorobenzene | 97.3 | 65-135 | | %REC | 1 | 11/27/2014 6:55:00 PM |
| Surr: Toluene-d8 | 101 | 65-135 | | %REC | 1 | 11/27/2014 6:55:00 PM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9469 | | Analyst: EM | |
| Benzene | ND | 0.0197 | | mg/Kg-dry | 1 | 11/27/2014 6:55:00 PM |
| Toluene | ND | 0.0197 | | mg/Kg-dry | 1 | 11/27/2014 6:55:00 PM |
| Ethylbenzene | ND | 0.0295 | | mg/Kg-dry | 1 | 11/27/2014 6:55:00 PM |
| m,p-Xylene | ND | 0.0197 | | mg/Kg-dry | 1 | 11/27/2014 6:55:00 PM |
| o-Xylene | ND | 0.0197 | | mg/Kg-dry | 1 | 11/27/2014 6:55:00 PM |
| Surr: Dibromofluoromethane | 89.1 | 63.7-129 | | %REC | 1 | 11/27/2014 6:55:00 PM |
| Surr: Toluene-d8 | 101 | 64.3-131 | | %REC | 1 | 11/27/2014 6:55:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 95.2 | 63.1-141 | | %REC | 1 | 11/27/2014 6:55:00 PM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18296 | | Analyst: SL | |
| Percent Moisture | 13.4 | | | wt% | 1 | 11/25/2014 2:28:00 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1411265
Date Reported: 12/2/2014

Client: Environ International Corporation
Project: Seneca St (Epstein)
Lab ID: 1411265-004
Client Sample ID: SS04

Collection Date: 11/25/2014 11:17:00 AM
Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9441 | | Analyst: EC | |
| Diesel (Fuel Oil) | ND | 22.1 | | mg/Kg-dry | 1 | 11/26/2014 5:13:00 AM |
| Heavy Oil | ND | 55.4 | | mg/Kg-dry | 1 | 11/26/2014 5:13:00 AM |
| Surr: 2-Fluorobiphenyl | 98.9 | 50-150 | | %REC | 1 | 11/26/2014 5:13:00 AM |
| Surr: o-Terphenyl | 98.8 | 50-150 | | %REC | 1 | 11/26/2014 5:13:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9469 | | Analyst: BC | |
| Gasoline | ND | 4.83 | | mg/Kg-dry | 1 | 11/27/2014 7:24:00 PM |
| Surr: 4-Bromofluorobenzene | 99.1 | 65-135 | | %REC | 1 | 11/27/2014 7:24:00 PM |
| Surr: Toluene-d8 | 101 | 65-135 | | %REC | 1 | 11/27/2014 7:24:00 PM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9469 | | Analyst: EM | |
| Benzene | ND | 0.0193 | | mg/Kg-dry | 1 | 11/27/2014 7:24:00 PM |
| Toluene | ND | 0.0193 | | mg/Kg-dry | 1 | 11/27/2014 7:24:00 PM |
| Ethylbenzene | ND | 0.0290 | | mg/Kg-dry | 1 | 11/27/2014 7:24:00 PM |
| m,p-Xylene | ND | 0.0193 | | mg/Kg-dry | 1 | 11/27/2014 7:24:00 PM |
| o-Xylene | ND | 0.0193 | | mg/Kg-dry | 1 | 11/27/2014 7:24:00 PM |
| Surr: Dibromofluoromethane | 87.4 | 63.7-129 | | %REC | 1 | 11/27/2014 7:24:00 PM |
| Surr: Toluene-d8 | 102 | 64.3-131 | | %REC | 1 | 11/27/2014 7:24:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 97.3 | 63.1-141 | | %REC | 1 | 11/27/2014 7:24:00 PM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18296 | | Analyst: SL | |
| Percent Moisture | 14.9 | | | wt% | 1 | 11/25/2014 2:28:00 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1411265

Date Reported: 12/2/2014

Client: Environ International Corporation

Collection Date: 11/25/2014 11:20:00 AM

Project: Seneca St (Epstein)

Lab ID: 1411265-005

Matrix: Soil

Client Sample ID: SP01

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9441 | | Analyst: EC | |
| Diesel (Fuel Oil) | 647 | 19.2 | | mg/Kg-dry | 1 | 11/26/2014 5:44:00 AM |
| Heavy Oil | ND | 48.0 | | mg/Kg-dry | 1 | 11/26/2014 5:44:00 AM |
| Surr: 2-Fluorobiphenyl | 98.0 | 50-150 | | %REC | 1 | 11/26/2014 5:44:00 AM |
| Surr: o-Terphenyl | 98.7 | 50-150 | | %REC | 1 | 11/26/2014 5:44:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9469 | | Analyst: BC | |
| Gasoline | ND | 5.75 | | mg/Kg-dry | 1 | 11/27/2014 7:54:00 PM |
| Surr: 4-Bromofluorobenzene | 97.4 | 65-135 | | %REC | 1 | 11/27/2014 7:54:00 PM |
| Surr: Toluene-d8 | 100 | 65-135 | | %REC | 1 | 11/27/2014 7:54:00 PM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9469 | | Analyst: EM | |
| Benzene | ND | 0.0230 | | mg/Kg-dry | 1 | 11/27/2014 7:54:00 PM |
| Toluene | ND | 0.0230 | | mg/Kg-dry | 1 | 11/27/2014 7:54:00 PM |
| Ethylbenzene | ND | 0.0345 | | mg/Kg-dry | 1 | 11/27/2014 7:54:00 PM |
| m,p-Xylene | ND | 0.0230 | | mg/Kg-dry | 1 | 11/27/2014 7:54:00 PM |
| o-Xylene | ND | 0.0230 | | mg/Kg-dry | 1 | 11/27/2014 7:54:00 PM |
| Surr: Dibromofluoromethane | 91.0 | 63.7-129 | | %REC | 1 | 11/27/2014 7:54:00 PM |
| Surr: Toluene-d8 | 102 | 64.3-131 | | %REC | 1 | 11/27/2014 7:54:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 95.9 | 63.1-141 | | %REC | 1 | 11/27/2014 7:54:00 PM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18296 | | Analyst: SL | |
| Percent Moisture | 7.48 | | | wt% | 1 | 11/25/2014 2:28:00 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1411265
Date Reported: 12/2/2014

Client: Environ International Corporation
Project: Seneca St (Epstein)
Lab ID: 1411265-006
Client Sample ID: Trip Blank

Collection Date: 11/24/2014 10:30:00 AM
Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Gasoline by NWTPH-Gx

Batch ID: 9469 Analyst: BC

| | | | | | | |
|----------------------------|------|--------|--|-------|---|-----------------------|
| Gasoline | ND | 5.00 | | mg/Kg | 1 | 11/27/2014 9:51:00 PM |
| Surr: 4-Bromofluorobenzene | 101 | 65-135 | | %REC | 1 | 11/27/2014 9:51:00 PM |
| Surr: Toluene-d8 | 99.5 | 65-135 | | %REC | 1 | 11/27/2014 9:51:00 PM |

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9469 Analyst: EM

| | | | | | | |
|-------------------------------|------|----------|--|-------|---|-----------------------|
| Benzene | ND | 0.0200 | | mg/Kg | 1 | 11/27/2014 9:51:00 PM |
| Toluene | ND | 0.0200 | | mg/Kg | 1 | 11/27/2014 9:51:00 PM |
| Ethylbenzene | ND | 0.0300 | | mg/Kg | 1 | 11/27/2014 9:51:00 PM |
| m,p-Xylene | ND | 0.0200 | | mg/Kg | 1 | 11/27/2014 9:51:00 PM |
| o-Xylene | ND | 0.0200 | | mg/Kg | 1 | 11/27/2014 9:51:00 PM |
| Surr: Dibromofluoromethane | 92.2 | 63.7-129 | | %REC | 1 | 11/27/2014 9:51:00 PM |
| Surr: Toluene-d8 | 102 | 64.3-131 | | %REC | 1 | 11/27/2014 9:51:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 98.9 | 63.1-141 | | %REC | 1 | 11/27/2014 9:51:00 PM |

| | | | | |
|--------------------|----|---|----|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | D | Dilution was required |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1411265
CLIENT: Environ International Corporation
Project: Seneca St (Epstein)

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Sample ID 1411265-003ADUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 11/25/2014 | RunNo: 18315 | | | | |
|----------------------------------|-----------------------|-------------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: SS03 | Batch ID: 9441 | | | | | Analysis Date: 11/26/2014 | SeqNo: 365377 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|--|------|----|-----|-------|------|----|--|
| Diesel (Fuel Oil) | ND | 22.2 | | | | | | 0 | | 30 | |
| Heavy Oil | 56.7 | 55.4 | | | | | | 53.01 | 6.73 | 30 | |
| Surr: 2-Fluorobiphenyl | 21.9 | | 22.17 | | 99.0 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 21.9 | | 22.17 | | 99.0 | 50 | 150 | | 0 | | |

| Sample ID LCS-9441 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 11/25/2014 | RunNo: 18315 | | | | |
|---------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9441 | | | | | Analysis Date: 11/25/2014 | SeqNo: 365386 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|---|------|----|-----|--|--|--|--|
| Diesel (Fuel Oil) | 430 | 20.0 | 500.0 | 0 | 86.0 | 65 | 135 | | | | |
| Surr: 2-Fluorobiphenyl | 20.9 | | 20.00 | | 104 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 19.9 | | 20.00 | | 99.6 | 50 | 150 | | | | |

| Sample ID MB-9441 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 11/25/2014 | RunNo: 18315 | | | | |
|--------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9441 | | | | | Analysis Date: 11/25/2014 | SeqNo: 365387 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|--|------|----|-----|--|--|--|--|
| Diesel (Fuel Oil) | ND | 20.0 | | | | | | | | | |
| Heavy Oil | ND | 50.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 19.9 | | 20.00 | | 99.6 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 20.2 | | 20.00 | | 101 | 50 | 150 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1411265
CLIENT: Environ International Corporation
Project: Seneca St (Epstein)

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

| Sample ID 1411265-002BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 12/1/2014 | RunNo: 18353 | | | | |
|----------------------------------|-----------------------|-------------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: SS02 | Batch ID: 9469 | | | | | Analysis Date: 11/27/2014 | SeqNo: 366011 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|------|----|-----|---|---|----|--|
| Gasoline | ND | 4.72 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 2.36 | | 2.360 | | 100 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 2.33 | | 2.360 | | 98.6 | 65 | 135 | | 0 | | |

| Sample ID LCS-9469 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 12/1/2014 | RunNo: 18353 | | | | |
|---------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9469 | | | | | Analysis Date: 11/27/2014 | SeqNo: 366018 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|---|------|----|-----|--|--|--|--|
| Gasoline | 18.7 | 5.00 | 25.00 | 0 | 74.9 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 101 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 2.48 | | 2.500 | | 99.2 | 65 | 135 | | | | |

| Sample ID MB-9469 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 12/1/2014 | RunNo: 18353 | | | | |
|--------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9469 | | | | | Analysis Date: 11/27/2014 | SeqNo: 366019 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|------|----|-----|--|--|--|--|
| Gasoline | ND | 5.00 | | | | | | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 2.44 | | 2.500 | | 97.6 | 65 | 135 | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits



Work Order: 1411265
CLIENT: Environ International Corporation
Project: Seneca St (Epstein)

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID | 1411265-002BDUP | SampType: | DUP | Units: | mg/Kg-dry | Prep Date: | 12/1/2014 | RunNo: | 18378 | | |
|-------------------------------|------------------------|-----------|-------------|-------------|------------------|----------------|-------------------|-------------|---------------|----------|------|
| Client ID: | SS02 | Batch ID: | 9469 | | | Analysis Date: | 11/27/2014 | SeqNo: | 366348 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0189 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.0189 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.0283 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.0189 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.0189 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.12 | | 2.360 | | 89.9 | 63.7 | 129 | | 0 | | |
| Surr: Toluene-d8 | 2.41 | | 2.360 | | 102 | 64.3 | 131 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.29 | | 2.360 | | 97.1 | 63.1 | 141 | | 0 | | |

| Sample ID | 1411265-005BMS | SampType: | MS | Units: | mg/Kg-dry | Prep Date: | 12/1/2014 | RunNo: | 18378 | | |
|-------------------------------|-----------------------|-----------|-------------|-------------|------------------|----------------|-------------------|-------------|---------------|----------|------|
| Client ID: | SP01 | Batch ID: | 9469 | | | Analysis Date: | 11/27/2014 | SeqNo: | 366352 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.27 | 0.0230 | 1.151 | 0 | 111 | 63.5 | 133 | | | | |
| Toluene | 1.33 | 0.0230 | 1.151 | 0 | 116 | 63.4 | 132 | | | | |
| Ethylbenzene | 1.34 | 0.0345 | 1.151 | 0 | 117 | 54.5 | 134 | | | | |
| m,p-Xylene | 2.60 | 0.0230 | 2.302 | 0 | 113 | 53.1 | 132 | | | | |
| o-Xylene | 1.42 | 0.0230 | 1.151 | 0 | 123 | 53.3 | 139 | | | | |
| Surr: Dibromofluoromethane | 3.22 | | 2.877 | | 112 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.94 | | 2.877 | | 102 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.90 | | 2.877 | | 101 | 63.1 | 141 | | | | |

| Sample ID | LCS-9469 | SampType: | LCS | Units: | mg/Kg | Prep Date: | 12/1/2014 | RunNo: | 18378 | | |
|------------|-----------------|-----------|-------------|-------------|--------------|----------------|-------------------|-------------|---------------|----------|------|
| Client ID: | LCSS | Batch ID: | 9469 | | | Analysis Date: | 11/27/2014 | SeqNo: | 366355 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.04 | 0.0200 | 1.000 | 0 | 104 | 64.3 | 133 | | | | |
| Toluene | 1.08 | 0.0200 | 1.000 | 0 | 108 | 67.3 | 138 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |



Work Order: 1411265
CLIENT: Environ International Corporation
Project: Seneca St (Epstein)

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID LCS-9469 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 12/1/2014 | RunNo: 18378 | | | | |
|-------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9469 | | | | | Analysis Date: 11/27/2014 | SeqNo: 366355 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Ethylbenzene | 1.07 | 0.0300 | 1.000 | 0 | 107 | 74 | 129 | | | | |
| m,p-Xylene | 2.11 | 0.0200 | 2.000 | 0 | 106 | 79.8 | 128 | | | | |
| o-Xylene | 1.15 | 0.0200 | 1.000 | 0 | 115 | 72.7 | 124 | | | | |
| Surr: Dibromofluoromethane | 2.61 | | 2.500 | | 105 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.58 | | 2.500 | | 103 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.52 | | 2.500 | | 101 | 63.1 | 141 | | | | |

| Sample ID MB-9469 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 12/1/2014 | RunNo: 18378 | | | | |
|-------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9469 | | | | | Analysis Date: 11/27/2014 | SeqNo: 366356 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0200 | | | | | | | | | |
| Toluene | ND | 0.0200 | | | | | | | | | |
| Ethylbenzene | ND | 0.0300 | | | | | | | | | |
| m,p-Xylene | ND | 0.0200 | | | | | | | | | |
| o-Xylene | ND | 0.0200 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.31 | | 2.500 | | 92.2 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.55 | | 2.500 | | 102 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.40 | | 2.500 | | 96.1 | 63.1 | 141 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Client Name: **EIC**
 Logged by: **Erica Silva**

 Work Order Number: **1411265**
 Date Received: **11/25/2014 1:10:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody seals intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is the headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|------|---|
| Person Notified: | <input type="text"/> | Date | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C | Condition |
|--------|---------|-----------|
| Cooler | 3.9 | Good |
| Sample | 7.9 | Good |



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Environ International Corporation

Ken Ames

901 5th Ave., Ste. 2820

Seattle, WA 98164

RE: Seneca St

Lab ID: 1412151

December 15, 2014

Attention Ken Ames:

Fremont Analytical, Inc. received 6 sample(s) on 12/11/2014 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward", is written over a white background.

Chelsea Ward
Project Manager

CC:
Amy Kephart



Date: 12/15/2014

CLIENT: Environ International Corporation
Project: Seneca St
Lab Order: 1412151

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1412151-001 | SS05 | 12/11/2014 11:35 AM | 12/11/2014 1:58 PM |
| 1412151-002 | SS06 | 12/11/2014 11:45 AM | 12/11/2014 1:58 PM |
| 1412151-003 | SS07 | 12/11/2014 11:59 AM | 12/11/2014 1:58 PM |
| 1412151-004 | SS08 | 12/11/2014 12:10 PM | 12/11/2014 1:58 PM |
| 1412151-005 | SS09 | 12/11/2014 12:24 PM | 12/11/2014 1:58 PM |
| 1412151-006 | Trip Blank | 10/19/2014 4:40 PM | 12/11/2014 1:58 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Environ International Corporation**Project:** Seneca St

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1412151

Date Reported: 12/15/2014

Client: Environ International Corporation

Collection Date: 12/11/2014 11:35:00 AM

Project: Seneca St

Lab ID: 1412151-001

Matrix: Soil

Client Sample ID: SS05

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|-----------|------------------|------------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9558 | Analyst: EC |
| Diesel (Fuel Oil) | ND | 22.2 | | mg/Kg-dry | 1 | 12/11/2014 10:08:00 PM |
| Heavy Oil | ND | 55.5 | | mg/Kg-dry | 1 | 12/11/2014 10:08:00 PM |
| Surr: 2-Fluorobiphenyl | 89.7 | 50-150 | | %REC | 1 | 12/11/2014 10:08:00 PM |
| Surr: o-Terphenyl | 88.5 | 50-150 | | %REC | 1 | 12/11/2014 10:08:00 PM |
| <u>Gasoline by NWTPH-Gx</u> | | | | | Batch ID: 9568 | Analyst: AK |
| Gasoline | ND | 4.39 | | mg/Kg-dry | 1 | 12/13/2014 4:58:00 AM |
| Surr: 4-Bromofluorobenzene | 89.2 | 65-135 | | %REC | 1 | 12/13/2014 4:58:00 AM |
| Surr: Toluene-d8 | 93.9 | 65-135 | | %REC | 1 | 12/13/2014 4:58:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | | Batch ID: 9568 | Analyst: AK |
| Benzene | ND | 0.0176 | | mg/Kg-dry | 1 | 12/13/2014 4:58:00 AM |
| Toluene | ND | 0.0176 | | mg/Kg-dry | 1 | 12/13/2014 4:58:00 AM |
| Ethylbenzene | ND | 0.0263 | | mg/Kg-dry | 1 | 12/13/2014 4:58:00 AM |
| m,p-Xylene | ND | 0.0176 | | mg/Kg-dry | 1 | 12/13/2014 4:58:00 AM |
| o-Xylene | ND | 0.0176 | | mg/Kg-dry | 1 | 12/13/2014 4:58:00 AM |
| Surr: Dibromofluoromethane | 89.9 | 63.7-129 | | %REC | 1 | 12/13/2014 4:58:00 AM |
| Surr: Toluene-d8 | 97.9 | 64.3-131 | | %REC | 1 | 12/13/2014 4:58:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 97.7 | 63.1-141 | | %REC | 1 | 12/13/2014 4:58:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R18553 | Analyst: SB |
| Percent Moisture | 12.3 | | | wt% | 1 | 12/12/2014 8:25:45 AM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412151

Date Reported: 12/15/2014

Client: Environ International Corporation

Collection Date: 12/11/2014 11:45:00 AM

Project: Seneca St

Lab ID: 1412151-002

Matrix: Soil

Client Sample ID: SS06

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|------------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9558 | | Analyst: EC | |
| Diesel (Fuel Oil) | ND | 21.3 | | mg/Kg-dry | 1 | 12/11/2014 10:40:00 PM |
| Heavy Oil | 335 | 53.2 | | mg/Kg-dry | 1 | 12/11/2014 10:40:00 PM |
| Surr: 2-Fluorobiphenyl | 89.1 | 50-150 | | %REC | 1 | 12/11/2014 10:40:00 PM |
| Surr: o-Terphenyl | 88.5 | 50-150 | | %REC | 1 | 12/11/2014 10:40:00 PM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9568 | | Analyst: AK | |
| Gasoline | ND | 4.80 | | mg/Kg-dry | 1 | 12/13/2014 5:53:00 AM |
| Surr: 4-Bromofluorobenzene | 88.2 | 65-135 | | %REC | 1 | 12/13/2014 5:53:00 AM |
| Surr: Toluene-d8 | 93.9 | 65-135 | | %REC | 1 | 12/13/2014 5:53:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9568 | | Analyst: AK | |
| Benzene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/13/2014 5:53:00 AM |
| Toluene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/13/2014 5:53:00 AM |
| Ethylbenzene | ND | 0.0288 | | mg/Kg-dry | 1 | 12/13/2014 5:53:00 AM |
| m,p-Xylene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/13/2014 5:53:00 AM |
| o-Xylene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/13/2014 5:53:00 AM |
| Surr: Dibromofluoromethane | 89.0 | 63.7-129 | | %REC | 1 | 12/13/2014 5:53:00 AM |
| Surr: Toluene-d8 | 98.5 | 64.3-131 | | %REC | 1 | 12/13/2014 5:53:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 96.6 | 63.1-141 | | %REC | 1 | 12/13/2014 5:53:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18553 | | Analyst: SB | |
| Percent Moisture | 10.7 | | | wt% | 1 | 12/12/2014 8:25:45 AM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412151

Date Reported: 12/15/2014

Client: Environ International Corporation

Collection Date: 12/11/2014 11:59:00 AM

Project: Seneca St

Lab ID: 1412151-003

Matrix: Soil

Client Sample ID: SS07

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|------------------|----|------------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | Batch ID: 9558 | | Analyst: EC |
| Diesel (Fuel Oil) | ND | 21.7 | | mg/Kg-dry | 1 | 12/11/2014 11:12:00 PM |
| Heavy Oil | 160 | 54.2 | | mg/Kg-dry | 1 | 12/11/2014 11:12:00 PM |
| Surr: 2-Fluorobiphenyl | 90.6 | 50-150 | | %REC | 1 | 12/11/2014 11:12:00 PM |
| Surr: o-Terphenyl | 89.8 | 50-150 | | %REC | 1 | 12/11/2014 11:12:00 PM |
| <u>Gasoline by NWTPH-Gx</u> | | | | Batch ID: 9568 | | Analyst: AK |
| Gasoline | ND | 4.64 | | mg/Kg-dry | 1 | 12/13/2014 7:42:00 AM |
| Surr: 4-Bromofluorobenzene | 89.1 | 65-135 | | %REC | 1 | 12/13/2014 7:42:00 AM |
| Surr: Toluene-d8 | 94.7 | 65-135 | | %REC | 1 | 12/13/2014 7:42:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | Batch ID: 9568 | | Analyst: AK |
| Benzene | ND | 0.0186 | | mg/Kg-dry | 1 | 12/13/2014 7:42:00 AM |
| Toluene | ND | 0.0186 | | mg/Kg-dry | 1 | 12/13/2014 7:42:00 AM |
| Ethylbenzene | ND | 0.0278 | | mg/Kg-dry | 1 | 12/13/2014 7:42:00 AM |
| m,p-Xylene | ND | 0.0186 | | mg/Kg-dry | 1 | 12/13/2014 7:42:00 AM |
| o-Xylene | ND | 0.0186 | | mg/Kg-dry | 1 | 12/13/2014 7:42:00 AM |
| Surr: Dibromofluoromethane | 94.0 | 63.7-129 | | %REC | 1 | 12/13/2014 7:42:00 AM |
| Surr: Toluene-d8 | 99.8 | 64.3-131 | | %REC | 1 | 12/13/2014 7:42:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 97.6 | 63.1-141 | | %REC | 1 | 12/13/2014 7:42:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | Batch ID: R18553 | | Analyst: SB |
| Percent Moisture | 12.1 | | | wt% | 1 | 12/12/2014 8:25:45 AM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412151

Date Reported: 12/15/2014

Client: Environ International Corporation

Collection Date: 12/11/2014 12:10:00 PM

Project: Seneca St

Lab ID: 1412151-004

Matrix: Soil

Client Sample ID: SS08

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|------------------|----|------------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | Batch ID: 9558 | | Analyst: EC |
| Diesel (Fuel Oil) | ND | 19.2 | | mg/Kg-dry | 1 | 12/11/2014 11:44:00 PM |
| Heavy Oil | ND | 47.9 | | mg/Kg-dry | 1 | 12/11/2014 11:44:00 PM |
| Surr: 2-Fluorobiphenyl | 88.8 | 50-150 | | %REC | 1 | 12/11/2014 11:44:00 PM |
| Surr: o-Terphenyl | 88.0 | 50-150 | | %REC | 1 | 12/11/2014 11:44:00 PM |
| <u>Gasoline by NWTPH-Gx</u> | | | | Batch ID: 9568 | | Analyst: AK |
| Gasoline | ND | 6.18 | | mg/Kg-dry | 1 | 12/13/2014 1:44:00 PM |
| Surr: 4-Bromofluorobenzene | 88.0 | 65-135 | | %REC | 1 | 12/13/2014 1:44:00 PM |
| Surr: Toluene-d8 | 94.1 | 65-135 | | %REC | 1 | 12/13/2014 1:44:00 PM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | Batch ID: 9568 | | Analyst: AK |
| Benzene | ND | 0.0247 | | mg/Kg-dry | 1 | 12/13/2014 1:44:00 PM |
| Toluene | ND | 0.0247 | | mg/Kg-dry | 1 | 12/13/2014 1:44:00 PM |
| Ethylbenzene | ND | 0.0371 | | mg/Kg-dry | 1 | 12/13/2014 1:44:00 PM |
| m,p-Xylene | ND | 0.0247 | | mg/Kg-dry | 1 | 12/13/2014 1:44:00 PM |
| o-Xylene | ND | 0.0247 | | mg/Kg-dry | 1 | 12/13/2014 1:44:00 PM |
| Surr: Dibromofluoromethane | 89.5 | 63.7-129 | | %REC | 1 | 12/13/2014 1:44:00 PM |
| Surr: Toluene-d8 | 98.4 | 64.3-131 | | %REC | 1 | 12/13/2014 1:44:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 96.2 | 63.1-141 | | %REC | 1 | 12/13/2014 1:44:00 PM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | Batch ID: R18553 | | Analyst: SB |
| Percent Moisture | 3.54 | | | wt% | 1 | 12/12/2014 8:25:45 AM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412151

Date Reported: 12/15/2014

Client: Environ International Corporation

Collection Date: 12/11/2014 12:24:00 PM

Project: Seneca St

Lab ID: 1412151-005

Matrix: Soil

Client Sample ID: SS09

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|------------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9558 | | Analyst: EC | |
| Diesel (Fuel Oil) | ND | 21.4 | | mg/Kg-dry | 1 | 12/12/2014 12:15:00 AM |
| Heavy Oil | 422 | 53.6 | | mg/Kg-dry | 1 | 12/12/2014 12:15:00 AM |
| Surr: 2-Fluorobiphenyl | 89.3 | 50-150 | | %REC | 1 | 12/12/2014 12:15:00 AM |
| Surr: o-Terphenyl | 89.0 | 50-150 | | %REC | 1 | 12/12/2014 12:15:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9568 | | Analyst: AK | |
| Gasoline | ND | 5.52 | | mg/Kg-dry | 1 | 12/13/2014 12:50:00 PM |
| Surr: 4-Bromofluorobenzene | 87.9 | 65-135 | | %REC | 1 | 12/13/2014 12:50:00 PM |
| Surr: Toluene-d8 | 97.1 | 65-135 | | %REC | 1 | 12/13/2014 12:50:00 PM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9568 | | Analyst: AK | |
| Benzene | ND | 0.0221 | | mg/Kg-dry | 1 | 12/13/2014 12:50:00 PM |
| Toluene | ND | 0.0221 | | mg/Kg-dry | 1 | 12/13/2014 12:50:00 PM |
| Ethylbenzene | ND | 0.0331 | | mg/Kg-dry | 1 | 12/13/2014 12:50:00 PM |
| m,p-Xylene | ND | 0.0221 | | mg/Kg-dry | 1 | 12/13/2014 12:50:00 PM |
| o-Xylene | ND | 0.0221 | | mg/Kg-dry | 1 | 12/13/2014 12:50:00 PM |
| Surr: Dibromofluoromethane | 91.2 | 63.7-129 | | %REC | 1 | 12/13/2014 12:50:00 PM |
| Surr: Toluene-d8 | 95.5 | 64.3-131 | | %REC | 1 | 12/13/2014 12:50:00 PM |
| Surr: 1-Bromo-4-fluorobenzene | 96.2 | 63.1-141 | | %REC | 1 | 12/13/2014 12:50:00 PM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18553 | | Analyst: SB | |
| Percent Moisture | 13.5 | | | wt% | 1 | 12/12/2014 8:25:45 AM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412151

Date Reported: 12/15/2014

Client: Environ International Corporation

Collection Date: 10/19/2014 4:40:00 PM

Project: Seneca St

Lab ID: 1412151-006

Matrix: Soil

Client Sample ID: Trip Blank

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|-------|----------------|-----------------------|
| <u>Gasoline by NWTPH-Gx</u> | | | | | Batch ID: 9568 | Analyst: AK |
| Gasoline | ND | 5.00 | H | mg/Kg | 1 | 12/13/2014 4:31:00 AM |
| Surr: 4-Bromofluorobenzene | 87.5 | 65-135 | H | %REC | 1 | 12/13/2014 4:31:00 AM |
| Surr: Toluene-d8 | 94.1 | 65-135 | H | %REC | 1 | 12/13/2014 4:31:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | | Batch ID: 9568 | Analyst: AK |
| Benzene | ND | 0.0200 | H | mg/Kg | 1 | 12/13/2014 4:31:00 AM |
| Toluene | ND | 0.0200 | H | mg/Kg | 1 | 12/13/2014 4:31:00 AM |
| Ethylbenzene | ND | 0.0300 | H | mg/Kg | 1 | 12/13/2014 4:31:00 AM |
| m,p-Xylene | ND | 0.0200 | H | mg/Kg | 1 | 12/13/2014 4:31:00 AM |
| o-Xylene | ND | 0.0200 | H | mg/Kg | 1 | 12/13/2014 4:31:00 AM |
| Surr: Dibromofluoromethane | 92.5 | 63.7-129 | H | %REC | 1 | 12/13/2014 4:31:00 AM |
| Surr: Toluene-d8 | 100 | 64.3-131 | H | %REC | 1 | 12/13/2014 4:31:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 96.1 | 63.1-141 | H | %REC | 1 | 12/13/2014 4:31:00 AM |

Qualifiers:

| | | | |
|----|---|----|--|
| B | Analyte detected in the associated Method Blank | D | Dilution was required |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1412151
CLIENT: Environ International Corporation
Project: Seneca St

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Sample ID: 1412151-005ADUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 12/11/2014 | RunNo: 18536 | | | | |
|-----------------------------------|-----------------------|-------------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: SS09 | Batch ID: 9558 | | | | | Analysis Date: 12/12/2014 | SeqNo: 370065 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | ND | 20.5 | | | | | | 0 | | 30 | |
| Heavy Oil | 351 | 51.2 | | | | | | 422.0 | 18.3 | 30 | |
| Surr: 2-Fluorobiphenyl | 18.2 | | 20.49 | | 88.9 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 18.0 | | 20.49 | | 87.7 | 50 | 150 | | 0 | | |

| Sample ID: LCS-9558 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 12/11/2014 | RunNo: 18536 | | | | |
|----------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9558 | | | | | Analysis Date: 12/11/2014 | SeqNo: 370070 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | 430 | 20.0 | 500.0 | 0 | 86.0 | 65 | 135 | | | | |
| Surr: 2-Fluorobiphenyl | 20.4 | | 20.00 | | 102 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 20.6 | | 20.00 | | 103 | 50 | 150 | | | | |

| Sample ID: MB-9558 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 12/11/2014 | RunNo: 18536 | | | | |
|---------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9558 | | | | | Analysis Date: 12/11/2014 | SeqNo: 370071 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | ND | 20.0 | | | | | | | | | |
| Heavy Oil | ND | 50.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 18.6 | | 20.00 | | 93.1 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 18.5 | | 20.00 | | 92.6 | 50 | 150 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1412151
CLIENT: Environ International Corporation
Project: Seneca St

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

| Sample ID: 1412151-001BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 12/12/2014 | RunNo: 18598 | | | | | | | |
|-----------------------------------|-----------------------|-------------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SS05 | Batch ID: 9568 | | Analysis Date: 12/13/2014 | SeqNo: 370907 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|------|----|-----|---|---|----|--|
| Gasoline | ND | 4.39 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 2.05 | | 2.195 | | 93.3 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 1.96 | | 2.195 | | 89.4 | 65 | 135 | | 0 | | |

| Sample ID: LCS-9568 | SampType: LCS | Units: mg/Kg | Prep Date: 12/12/2014 | RunNo: 18598 | | | | | | | |
|----------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9568 | | Analysis Date: 12/13/2014 | SeqNo: 370922 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|---|------|----|-----|--|--|--|--|
| Gasoline | 24.8 | 5.00 | 25.00 | 0 | 99.2 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 2.35 | | 2.500 | | 93.9 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 2.29 | | 2.500 | | 91.5 | 65 | 135 | | | | |

| Sample ID: MB-9568 | SampType: MBLK | Units: mg/Kg | Prep Date: 12/12/2014 | RunNo: 18598 | | | | | | | |
|---------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9568 | | Analysis Date: 12/13/2014 | SeqNo: 370923 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|------|----|-----|--|--|--|--|
| Gasoline | ND | 5.00 | | | | | | | | | |
| Surr: Toluene-d8 | 2.34 | | 2.500 | | 93.8 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 2.27 | | 2.500 | | 90.8 | 65 | 135 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |



Work Order: 1412151
CLIENT: Environ International Corporation
Project: Seneca St

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID: 1412151-002BMS | SampType: MS | Units: mg/Kg-dry | Prep Date: 12/12/2014 | RunNo: 18593 | | | | | | | |
|----------------------------------|-----------------------|-------------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SS06 | Batch ID: 9568 | | Analysis Date: 12/13/2014 | SeqNo: 370844 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.04 | 0.0192 | 0.9600 | 0 | 108 | 63.5 | 133 | | | | |
| Toluene | 0.961 | 0.0192 | 0.9600 | 0 | 100 | 63.4 | 132 | | | | |
| Ethylbenzene | 0.990 | 0.0288 | 0.9600 | 0 | 103 | 54.5 | 134 | | | | |
| m,p-Xylene | 1.99 | 0.0192 | 1.920 | 0.01094 | 103 | 53.1 | 132 | | | | |
| o-Xylene | 1.02 | 0.0192 | 0.9600 | 0 | 107 | 53.3 | 139 | | | | |
| Surr: Dibromofluoromethane | 2.69 | | 2.400 | | 112 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.41 | | 2.400 | | 101 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.49 | | 2.400 | | 104 | 63.1 | 141 | | | | |

| Sample ID: 1412161-002BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 12/12/2014 | RunNo: 18593 | | | | | | | |
|-----------------------------------|-----------------------|-------------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 9568 | | Analysis Date: 12/13/2014 | SeqNo: 370852 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0229 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.0229 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.0343 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.0229 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.0229 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.51 | | 2.860 | | 87.8 | 63.7 | 129 | | 0 | | |
| Surr: Toluene-d8 | 2.78 | | 2.860 | | 97.1 | 64.3 | 131 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.75 | | 2.860 | | 96.2 | 63.1 | 141 | | 0 | | |

| Sample ID: LCS-9568 | SampType: LCS | Units: mg/Kg | Prep Date: 12/12/2014 | RunNo: 18593 | | | | | | | |
|----------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9568 | | Analysis Date: 12/13/2014 | SeqNo: 370857 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 0.900 | 0.0200 | 1.000 | 0 | 90.0 | 64.3 | 133 | | | | |
| Toluene | 0.980 | 0.0200 | 1.000 | 0 | 98.0 | 67.3 | 138 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1412151
CLIENT: Environ International Corporation
Project: Seneca St

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID: LCS-9568 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 12/12/2014 | RunNo: 18593 | | | | |
|-------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9568 | | | | | Analysis Date: 12/13/2014 | SeqNo: 370857 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Ethylbenzene | 1.03 | 0.0300 | 1.000 | 0 | 103 | 74 | 129 | | | | |
| m,p-Xylene | 2.04 | 0.0200 | 2.000 | 0 | 102 | 79.8 | 128 | | | | |
| o-Xylene | 1.04 | 0.0200 | 1.000 | 0 | 104 | 72.7 | 124 | | | | |
| Surr: Dibromofluoromethane | 2.83 | | 2.500 | | 113 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.49 | | 2.500 | | 99.7 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.56 | | 2.500 | | 102 | 63.1 | 141 | | | | |

| Sample ID: MB-9568 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 12/12/2014 | RunNo: 18593 | | | | |
|-------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9568 | | | | | Analysis Date: 12/13/2014 | SeqNo: 370858 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0200 | | | | | | | | | |
| Toluene | ND | 0.0200 | | | | | | | | | |
| Ethylbenzene | ND | 0.0300 | | | | | | | | | |
| m,p-Xylene | ND | 0.0200 | | | | | | | | | |
| o-Xylene | ND | 0.0200 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.17 | | 2.500 | | 86.8 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 101 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.48 | | 2.500 | | 99.4 | 63.1 | 141 | | | | |

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **EIC**
 Logged by: **Erica Silva**

Work Order Number: **1412151**
 Date Received: **12/11/2014 1:58:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C | Condition |
|--------|---------|-----------|
| Cooler | 5.3 | Good |
| Sample | 5.9 | Good |



Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 12/11/14

Client: ENVIRON
Address: 9015 HAVANE SUITE 2820
City, State, Zip: SEATTLE WA 98148

Reports To (PM): Ken Amus & Amy Keppert

Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Laboratory Project No (Internal): 1412151
Page: 1 of 1

Project Name: SENECA ST.
Location: 602 E SENECA ST. SEATTLE

Collected by: A. KOPPEL
Email: akoppel@fremontanalytical.com

| Sample Name | Sample Date | Sample Time | Sample Type (Matrix) | VOC (EPA 8260) | GV/TEX | BTX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCID) | Diesel/Heavy Oil Range Organics (DH) | SEM VOL (EPA 8270 - SIM) | PAH (EPA 8270 - SIM) | PCBs (EPA 8082) | Metals** (6020 / 200.8) | Total (T) Dissolved (D) | Anions (IC)** | ED8 (8011) | NWTRHGX | NWTRHDX | Comments/Depth |
|-------------|-------------|-------------|----------------------|----------------|--------|-----|------------------------------|-----------------------------------|--------------------------------------|--------------------------|----------------------|-----------------|-------------------------|---------------------------|---------------|------------|---------|---------|----------------|
| SS05 | 12/11/14 | 1135 | S | | X | | | | | | | | | | | | X | X | |
| SS06 | | 1145 | S | | | | | | | | | | | | | | X | X | |
| SS07 | | 1159 | S | | | | | | | | | | | | | | X | X | |
| SS08 | | 1210 | S | | | | | | | | | | | | | | X | X | |
| SS09 | | 1224 | S | | | | | | | | | | | | | | X | X | |
| TOP BLANK | | | S | | | | | | | | | | | | | | X | X | |

**Metals Analysis (Circle): MTCA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Nitrate+Nitrite Fluoride

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished: Date/Time 12/11/14 1:58
Received: Date/Time 12/11/14 1:58

Relinquished: Date/Time 12/11/14 1:58
Received: Date/Time 12/11/14 1:58

Special Remarks: Need results by COB 12/17/14 (25pm) spoke to ENICA on 12/10/14.

TAT -> SameDay/ NextDay/ 2 Day 3 Day STD

Please coordinate with the lab in advance



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Environ International Corporation

Amy Kephart

901 5th Ave., Ste. 2820

Seattle, WA 98164

RE: Epstein #30-34760B

Lab ID: 1412300

December 31, 2014

Attention Amy Kephart:

Fremont Analytical, Inc. received 9 sample(s) on 12/22/2014 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward", written in a cursive style.

Chelsea Ward
Project Manager



Date: 12/31/2014

CLIENT: Environ International Corporation
Project: Epstein #30-34760B
Lab Order: 1412300

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1412300-001 | SB3-3-122214 | 12/22/2014 8:50 AM | 12/22/2014 3:15 PM |
| 1412300-002 | SB3-6-122214 | 12/22/2014 8:55 AM | 12/22/2014 3:15 PM |
| 1412300-003 | SB1-1-122214 | 12/22/2014 9:40 AM | 12/22/2014 3:15 PM |
| 1412300-004 | SB1-6-122214 | 12/22/2014 9:55 AM | 12/22/2014 3:15 PM |
| 1412300-005 | SB2-6-122214 | 12/22/2014 10:42 AM | 12/22/2014 3:15 PM |
| 1412300-006 | SB4-4-122214 | 12/22/2014 11:15 AM | 12/22/2014 3:15 PM |
| 1412300-007 | SB9-3-122214 | 12/22/2014 1:50 PM | 12/22/2014 3:15 PM |
| 1412300-008 | SB9-5-122214 | 12/22/2014 1:55 PM | 12/22/2014 3:15 PM |
| 1412300-009 | Trip Blank | 12/22/2014 8:20 AM | 12/22/2014 3:15 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Environ International Corporation**Project:** Epstein #30-34760B

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1412300

Date Reported: 12/31/2014

Client: Environ International Corporation

Collection Date: 12/22/2014 8:50:00 AM

Project: Epstein #30-34760B

Lab ID: 1412300-001

Matrix: Soil

Client Sample ID: SB3-3-122214

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9671

Analyst: EC

| | | | | | | |
|------------------------|-------|--------|--|-----------|---|-----------------------|
| Diesel (Fuel Oil) | ND | 21.7 | | mg/Kg-dry | 1 | 12/24/2014 7:46:00 AM |
| Heavy Oil | ND | 54.4 | | mg/Kg-dry | 1 | 12/24/2014 7:46:00 AM |
| Heavy Fuel Oil | 1,340 | 54.4 | | mg/Kg-dry | 1 | 12/24/2014 7:46:00 AM |
| Surr: 2-Fluorobiphenyl | 120 | 50-150 | | %REC | 1 | 12/24/2014 7:46:00 AM |
| Surr: o-Terphenyl | 126 | 50-150 | | %REC | 1 | 12/24/2014 7:46:00 AM |

NOTES:

Heavy Fuel Oil - Indicates the presence of compounds in both the Diesel and Oil ranges without distinct separation (single product)

Gasoline by NWTPH-Gx

Batch ID: 9679

Analyst: EM

| | | | | | | |
|----------------------------|-----|--------|--|-----------|---|-----------------------|
| Gasoline | ND | 4.23 | | mg/Kg-dry | 1 | 12/27/2014 5:29:00 AM |
| Surr: 4-Bromofluorobenzene | 103 | 65-135 | | %REC | 1 | 12/27/2014 5:29:00 AM |
| Surr: Toluene-d8 | 104 | 65-135 | | %REC | 1 | 12/27/2014 5:29:00 AM |

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9679

Analyst: AK

| | | | | | | |
|-------------------------------|--------|----------|---|-----------|---|-----------------------|
| Benzene | ND | 0.0169 | | mg/Kg-dry | 1 | 12/27/2014 5:29:00 AM |
| Toluene | ND | 0.0169 | | mg/Kg-dry | 1 | 12/27/2014 5:29:00 AM |
| Ethylbenzene | ND | 0.0254 | | mg/Kg-dry | 1 | 12/27/2014 5:29:00 AM |
| m,p-Xylene | 0.103 | 0.0169 | | mg/Kg-dry | 1 | 12/27/2014 5:29:00 AM |
| o-Xylene | 0.0182 | 0.0169 | | mg/Kg-dry | 1 | 12/27/2014 5:29:00 AM |
| Surr: Dibromofluoromethane | 84.8 | 63.7-129 | | %REC | 1 | 12/27/2014 5:29:00 AM |
| Surr: Toluene-d8 | 145 | 64.3-131 | S | %REC | 1 | 12/27/2014 5:29:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 97.0 | 63.1-141 | | %REC | 1 | 12/27/2014 5:29:00 AM |

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Sample Moisture (Percent Moisture)

Batch ID: R18777

Analyst: SB

| | | | | | | |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 8.01 | | | wt% | 1 | 12/23/2014 2:57:50 PM |
|------------------|------|--|--|-----|---|-----------------------|

| | | | | |
|--------------------|----|---|----|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | D | Dilution was required |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |



Analytical Report

WO#: 1412300

Date Reported: 12/31/2014

Client: Environ International Corporation

Collection Date: 12/22/2014 8:55:00 AM

Project: Epstein #30-34760B

Lab ID: 1412300-002

Matrix: Soil

Client Sample ID: SB3-6-122214

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|-----------|------------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9671 | Analyst: EC |
| Diesel (Fuel Oil) | ND | 21.8 | | mg/Kg-dry | 1 | 12/24/2014 8:48:00 AM |
| Heavy Oil | 73.0 | 54.4 | | mg/Kg-dry | 1 | 12/24/2014 8:48:00 AM |
| Surr: 2-Fluorobiphenyl | 107 | 50-150 | | %REC | 1 | 12/24/2014 8:48:00 AM |
| Surr: o-Terphenyl | 108 | 50-150 | | %REC | 1 | 12/24/2014 8:48:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | | | Batch ID: 9679 | Analyst: EM |
| Gasoline | ND | 5.05 | | mg/Kg-dry | 1 | 12/27/2014 6:25:00 AM |
| Surr: 4-Bromofluorobenzene | 102 | 65-135 | | %REC | 1 | 12/27/2014 6:25:00 AM |
| Surr: Toluene-d8 | 72.7 | 65-135 | | %REC | 1 | 12/27/2014 6:25:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | | Batch ID: 9679 | Analyst: AK |
| Benzene | ND | 0.0202 | | mg/Kg-dry | 1 | 12/27/2014 6:25:00 AM |
| Toluene | ND | 0.0202 | | mg/Kg-dry | 1 | 12/27/2014 6:25:00 AM |
| Ethylbenzene | ND | 0.0303 | | mg/Kg-dry | 1 | 12/27/2014 6:25:00 AM |
| m,p-Xylene | ND | 0.0202 | | mg/Kg-dry | 1 | 12/27/2014 6:25:00 AM |
| o-Xylene | ND | 0.0202 | | mg/Kg-dry | 1 | 12/27/2014 6:25:00 AM |
| Surr: Dibromofluoromethane | 85.5 | 63.7-129 | | %REC | 1 | 12/27/2014 6:25:00 AM |
| Surr: Toluene-d8 | 98.6 | 64.3-131 | | %REC | 1 | 12/27/2014 6:25:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 98.4 | 63.1-141 | | %REC | 1 | 12/27/2014 6:25:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R18777 | Analyst: SB |
| Percent Moisture | 8.17 | | | wt% | 1 | 12/23/2014 2:57:50 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412300

Date Reported: 12/31/2014

Client: Environ International Corporation

Collection Date: 12/22/2014 9:40:00 AM

Project: Epstein #30-34760B

Lab ID: 1412300-003

Matrix: Soil

Client Sample ID: SB1-1-122214

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|-----------|------------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9671 | Analyst: EC |
| Diesel (Fuel Oil) | ND | 22.0 | | mg/Kg-dry | 1 | 12/24/2014 9:19:00 AM |
| Heavy Oil | ND | 55.0 | | mg/Kg-dry | 1 | 12/24/2014 9:19:00 AM |
| Surr: 2-Fluorobiphenyl | 106 | 50-150 | | %REC | 1 | 12/24/2014 9:19:00 AM |
| Surr: o-Terphenyl | 108 | 50-150 | | %REC | 1 | 12/24/2014 9:19:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | | | Batch ID: 9679 | Analyst: EM |
| Gasoline | ND | 4.97 | | mg/Kg-dry | 1 | 12/27/2014 8:19:00 AM |
| Surr: 4-Bromofluorobenzene | 98.8 | 65-135 | | %REC | 1 | 12/27/2014 8:19:00 AM |
| Surr: Toluene-d8 | 77.5 | 65-135 | | %REC | 1 | 12/27/2014 8:19:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | | Batch ID: 9679 | Analyst: AK |
| Benzene | ND | 0.0199 | | mg/Kg-dry | 1 | 12/27/2014 8:19:00 AM |
| Toluene | ND | 0.0199 | | mg/Kg-dry | 1 | 12/27/2014 8:19:00 AM |
| Ethylbenzene | ND | 0.0298 | | mg/Kg-dry | 1 | 12/27/2014 8:19:00 AM |
| m,p-Xylene | ND | 0.0199 | | mg/Kg-dry | 1 | 12/27/2014 8:19:00 AM |
| o-Xylene | ND | 0.0199 | | mg/Kg-dry | 1 | 12/27/2014 8:19:00 AM |
| Surr: Dibromofluoromethane | 86.7 | 63.7-129 | | %REC | 1 | 12/27/2014 8:19:00 AM |
| Surr: Toluene-d8 | 98.3 | 64.3-131 | | %REC | 1 | 12/27/2014 8:19:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 96.4 | 63.1-141 | | %REC | 1 | 12/27/2014 8:19:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R18777 | Analyst: SB |
| Percent Moisture | 9.12 | | | wt% | 1 | 12/23/2014 2:57:50 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412300

Date Reported: 12/31/2014

Client: Environ International Corporation

Collection Date: 12/22/2014 9:55:00 AM

Project: Epstein #30-34760B

Lab ID: 1412300-004

Matrix: Soil

Client Sample ID: SB1-6-122214

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|-----------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9671 | | Analyst: EC | |
| Diesel (Fuel Oil) | ND | 21.7 | | mg/Kg-dry | 1 | 12/24/2014 9:50:00 AM |
| Heavy Oil | ND | 54.2 | | mg/Kg-dry | 1 | 12/24/2014 9:50:00 AM |
| Surr: 2-Fluorobiphenyl | 107 | 50-150 | | %REC | 1 | 12/24/2014 9:50:00 AM |
| Surr: o-Terphenyl | 108 | 50-150 | | %REC | 1 | 12/24/2014 9:50:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9679 | | Analyst: EM | |
| Gasoline | ND | 4.80 | | mg/Kg-dry | 1 | 12/27/2014 8:47:00 AM |
| Surr: 4-Bromofluorobenzene | 98.3 | 65-135 | | %REC | 1 | 12/27/2014 8:47:00 AM |
| Surr: Toluene-d8 | 75.7 | 65-135 | | %REC | 1 | 12/27/2014 8:47:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9679 | | Analyst: AK | |
| Benzene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/27/2014 8:47:00 AM |
| Toluene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/27/2014 8:47:00 AM |
| Ethylbenzene | ND | 0.0288 | | mg/Kg-dry | 1 | 12/27/2014 8:47:00 AM |
| m,p-Xylene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/27/2014 8:47:00 AM |
| o-Xylene | ND | 0.0192 | | mg/Kg-dry | 1 | 12/27/2014 8:47:00 AM |
| Surr: Dibromofluoromethane | 87.8 | 63.7-129 | | %REC | 1 | 12/27/2014 8:47:00 AM |
| Surr: Toluene-d8 | 97.9 | 64.3-131 | | %REC | 1 | 12/27/2014 8:47:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 95.9 | 63.1-141 | | %REC | 1 | 12/27/2014 8:47:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18777 | | Analyst: SB | |
| Percent Moisture | 7.73 | | | wt% | 1 | 12/23/2014 2:57:50 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412300

Date Reported: 12/31/2014

Client: Environ International Corporation

Collection Date: 12/22/2014 10:42:00 AM

Project: Epstein #30-34760B

Lab ID: 1412300-005

Matrix: Soil

Client Sample ID: SB2-6-122214

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------------------|-----------|-------------|------------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | Batch ID: 9671 | | Analyst: EC | |
| Diesel (Fuel Oil) | ND | 21.9 | | mg/Kg-dry | 1 | 12/24/2014 10:52:00 AM |
| Heavy Oil | ND | 54.8 | | mg/Kg-dry | 1 | 12/24/2014 10:52:00 AM |
| Surr: 2-Fluorobiphenyl | 108 | 50-150 | | %REC | 1 | 12/24/2014 10:52:00 AM |
| Surr: o-Terphenyl | 109 | 50-150 | | %REC | 1 | 12/24/2014 10:52:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | Batch ID: 9679 | | Analyst: EM | |
| Gasoline | ND | 4.51 | | mg/Kg-dry | 1 | 12/27/2014 9:15:00 AM |
| Surr: 4-Bromofluorobenzene | 95.8 | 65-135 | | %REC | 1 | 12/27/2014 9:15:00 AM |
| Surr: Toluene-d8 | 75.5 | 65-135 | | %REC | 1 | 12/27/2014 9:15:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | Batch ID: 9679 | | Analyst: AK | |
| Benzene | ND | 0.0181 | | mg/Kg-dry | 1 | 12/27/2014 9:15:00 AM |
| Toluene | ND | 0.0181 | | mg/Kg-dry | 1 | 12/27/2014 9:15:00 AM |
| Ethylbenzene | ND | 0.0271 | | mg/Kg-dry | 1 | 12/27/2014 9:15:00 AM |
| m,p-Xylene | ND | 0.0181 | | mg/Kg-dry | 1 | 12/27/2014 9:15:00 AM |
| o-Xylene | ND | 0.0181 | | mg/Kg-dry | 1 | 12/27/2014 9:15:00 AM |
| Surr: Dibromofluoromethane | 83.7 | 63.7-129 | | %REC | 1 | 12/27/2014 9:15:00 AM |
| Surr: Toluene-d8 | 97.3 | 64.3-131 | | %REC | 1 | 12/27/2014 9:15:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 93.5 | 63.1-141 | | %REC | 1 | 12/27/2014 9:15:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | Batch ID: R18777 | | Analyst: SB | |
| Percent Moisture | 8.75 | | | wt% | 1 | 12/23/2014 2:57:50 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412300

Date Reported: 12/31/2014

Client: Environ International Corporation

Collection Date: 12/22/2014 11:15:00 AM

Project: Epstein #30-34760B

Lab ID: 1412300-006

Matrix: Soil

Client Sample ID: SB4-4-122214

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|-----------|------------------|------------------------|
| <u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u> | | | | | Batch ID: 9671 | Analyst: EC |
| Diesel (Fuel Oil) | ND | 22.1 | | mg/Kg-dry | 1 | 12/24/2014 11:23:00 AM |
| Heavy Oil | ND | 55.3 | | mg/Kg-dry | 1 | 12/24/2014 11:23:00 AM |
| Surr: 2-Fluorobiphenyl | 104 | 50-150 | | %REC | 1 | 12/24/2014 11:23:00 AM |
| Surr: o-Terphenyl | 105 | 50-150 | | %REC | 1 | 12/24/2014 11:23:00 AM |
| <u>Gasoline by NWTPH-Gx</u> | | | | | Batch ID: 9679 | Analyst: EM |
| Gasoline | ND | 4.67 | | mg/Kg-dry | 1 | 12/27/2014 9:44:00 AM |
| Surr: 4-Bromofluorobenzene | 96.4 | 65-135 | | %REC | 1 | 12/27/2014 9:44:00 AM |
| Surr: Toluene-d8 | 75.6 | 65-135 | | %REC | 1 | 12/27/2014 9:44:00 AM |
| <u>Volatile Organic Compounds by EPA Method 8260</u> | | | | | Batch ID: 9679 | Analyst: AK |
| Benzene | ND | 0.0187 | | mg/Kg-dry | 1 | 12/27/2014 9:44:00 AM |
| Toluene | ND | 0.0187 | | mg/Kg-dry | 1 | 12/27/2014 9:44:00 AM |
| Ethylbenzene | ND | 0.0280 | | mg/Kg-dry | 1 | 12/27/2014 9:44:00 AM |
| m,p-Xylene | ND | 0.0187 | | mg/Kg-dry | 1 | 12/27/2014 9:44:00 AM |
| o-Xylene | ND | 0.0187 | | mg/Kg-dry | 1 | 12/27/2014 9:44:00 AM |
| Surr: Dibromofluoromethane | 82.6 | 63.7-129 | | %REC | 1 | 12/27/2014 9:44:00 AM |
| Surr: Toluene-d8 | 97.5 | 64.3-131 | | %REC | 1 | 12/27/2014 9:44:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 94.0 | 63.1-141 | | %REC | 1 | 12/27/2014 9:44:00 AM |
| <u>Sample Moisture (Percent Moisture)</u> | | | | | Batch ID: R18777 | Analyst: SB |
| Percent Moisture | 9.53 | | | wt% | 1 | 12/23/2014 2:57:50 PM |

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1412300
CLIENT: Environ International Corporation
Project: Epstein #30-34760B

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Sample ID: 1412300-001ADUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 12/23/2014 | RunNo: 18810 | | | | | | | |
|-----------------------------------|-----------------------|-------------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB3-3-122214 | Batch ID: 9671 | | Analysis Date: 12/24/2014 | SeqNo: 374512 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|-------|------|-------|--|-----|----|-----|-------|------|----|--|
| Diesel (Fuel Oil) | ND | 21.7 | | | | | | 0 | | 30 | |
| Heavy Oil | ND | 54.4 | | | | | | 0 | | 30 | |
| Heavy Fuel Oil | 1,440 | 54.4 | | | | | | 1,335 | 7.43 | 30 | |
| Surr: 2-Fluorobiphenyl | 26.4 | | 21.74 | | 122 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 28.2 | | 21.74 | | 130 | 50 | 150 | | 0 | | |

NOTES:

Heavy Fuel Oil - Indicates the presence of compounds in both the Diesel and Oil ranges without distinct separation (single product)

| Sample ID: LCS-9671 | SampType: LCS | Units: mg/Kg | Prep Date: 12/23/2014 | RunNo: 18810 | | | | | | | |
|----------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9671 | | Analysis Date: 12/24/2014 | SeqNo: 374528 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|---|------|----|-----|--|--|--|--|
| Diesel (Fuel Oil) | 461 | 20.0 | 500.0 | 0 | 92.3 | 65 | 135 | | | | |
| Surr: 2-Fluorobiphenyl | 22.2 | | 20.00 | | 111 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 22.0 | | 20.00 | | 110 | 50 | 150 | | | | |

| Sample ID: MB-9671 | SampType: MBLK | Units: mg/Kg | Prep Date: 12/23/2014 | RunNo: 18810 | | | | | | | |
|---------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9671 | | Analysis Date: 12/24/2014 | SeqNo: 374529 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------|------|------|-------|--|-----|----|-----|--|--|--|--|
| Diesel (Fuel Oil) | ND | 20.0 | | | | | | | | | |
| Heavy Oil | ND | 50.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 21.7 | | 20.00 | | 108 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 22.1 | | 20.00 | | 110 | 50 | 150 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1412300
CLIENT: Environ International Corporation
Project: Epstein #30-34760B

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

| Sample ID: 1412300-001BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 12/24/2014 | RunNo: 18882 | | | | | | | |
|-----------------------------------|-----------------------|-------------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB3-3-122214 | Batch ID: 9679 | | Analysis Date: 12/27/2014 | SeqNo: 375817 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|-----|----|-----|---|---|----|--|
| Gasoline | ND | 4.23 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 2.18 | | 2.113 | | 103 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 2.26 | | 2.113 | | 107 | 65 | 135 | | 0 | | |

| Sample ID: LCS-9679 | SampType: LCS | Units: mg/Kg | Prep Date: 12/24/2014 | RunNo: 18882 | | | | | | | |
|----------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9679 | | Analysis Date: 12/27/2014 | SeqNo: 375835 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|---|------|----|-----|--|--|--|--|
| Gasoline | 20.8 | 5.00 | 25.00 | 0 | 83.3 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 1.82 | | 2.500 | | 72.7 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 2.47 | | 2.500 | | 98.9 | 65 | 135 | | | | |

| Sample ID: MB-9679 | SampType: MBLK | Units: mg/Kg | Prep Date: 12/24/2014 | RunNo: 18882 | | | | | | | |
|---------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9679 | | Analysis Date: 12/27/2014 | SeqNo: 375836 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|------|----|-----|--|--|--|--|
| Gasoline | ND | 5.00 | | | | | | | | | |
| Surr: Toluene-d8 | 1.88 | | 2.500 | | 75.0 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 2.36 | | 2.500 | | 94.3 | 65 | 135 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |



Date: 12/31/2014

Work Order: 1412300
CLIENT: Environ International Corporation
Project: Epstein #30-34760B

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID: 1412300-001BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 12/24/2014 | RunNo: 18842 | | | | | | | |
|-----------------------------------|-----------------------|-------------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB3-3-122214 | Batch ID: 9679 | | Analysis Date: 12/27/2014 | SeqNo: 375073 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0169 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.0169 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.0254 | | | | | | 0 | | 30 | |
| m,p-Xylene | 0.0996 | 0.0169 | | | | | | 0.1026 | 2.97 | 30 | |
| o-Xylene | 0.0268 | 0.0169 | | | | | | 0.01817 | 38.4 | 30 | |
| Surr: Dibromofluoromethane | 1.75 | | 2.113 | | 82.8 | 63.7 | 129 | | 0 | | |
| Surr: Toluene-d8 | 3.03 | | 2.113 | | 143 | 64.3 | 131 | | 0 | | S |
| Surr: 1-Bromo-4-fluorobenzene | 2.12 | | 2.113 | | 100 | 63.1 | 141 | | 0 | | |

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

| Sample ID: 1412300-002BMS | SampType: MS | Units: mg/Kg-dry | Prep Date: 12/24/2014 | RunNo: 18842 | | | | | | | |
|----------------------------------|-----------------------|-------------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB3-6-122214 | Batch ID: 9679 | | Analysis Date: 12/27/2014 | SeqNo: 375075 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.12 | 0.0202 | 1.010 | 0 | 111 | 63.5 | 133 | | | | |
| Toluene | 1.07 | 0.0202 | 1.010 | 0 | 106 | 63.4 | 132 | | | | |
| Ethylbenzene | 1.17 | 0.0303 | 1.010 | 0 | 115 | 54.5 | 134 | | | | |
| m,p-Xylene | 2.24 | 0.0202 | 2.020 | 0 | 111 | 53.1 | 132 | | | | |
| o-Xylene | 1.17 | 0.0202 | 1.010 | 0 | 116 | 53.3 | 139 | | | | |
| Surr: Dibromofluoromethane | 2.65 | | 2.525 | | 105 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.50 | | 2.525 | | 99.1 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.58 | | 2.525 | | 102 | 63.1 | 141 | | | | |

| | | | |
|--------------------|--|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | D Dilution was required | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits | ND Not detected at the Reporting Limit |
| | R RPD outside accepted recovery limits | RL Reporting Limit | S Spike recovery outside accepted recovery limits |

Work Order: 1412300
 CLIENT: Environ International Corporation
 Project: Epstein #30-34760B

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID: LCS-9679 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 12/24/2014 | RunNo: 18842 | | | | |
|-------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9679 | | | | | Analysis Date: 12/27/2014 | SeqNo: 375091 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.00 | 0.0200 | 1.000 | 0 | 100 | 64.3 | 133 | | | | |
| Toluene | 0.966 | 0.0200 | 1.000 | 0 | 96.6 | 67.3 | 138 | | | | |
| Ethylbenzene | 1.06 | 0.0300 | 1.000 | 0 | 106 | 74 | 129 | | | | |
| m,p-Xylene | 2.12 | 0.0200 | 2.000 | 0 | 106 | 79.8 | 128 | | | | |
| o-Xylene | 1.05 | 0.0200 | 1.000 | 0 | 105 | 72.7 | 124 | | | | |
| Surr: Dibromofluoromethane | 2.57 | | 2.500 | | 103 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.41 | | 2.500 | | 96.5 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.53 | | 2.500 | | 101 | 63.1 | 141 | | | | |

| Sample ID: MB-9679 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 12/24/2014 | RunNo: 18842 | | | | |
|-------------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9679 | | | | | Analysis Date: 12/27/2014 | SeqNo: 375092 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0200 | | | | | | | | | |
| Toluene | ND | 0.0200 | | | | | | | | | |
| Ethylbenzene | ND | 0.0300 | | | | | | | | | |
| m,p-Xylene | ND | 0.0200 | | | | | | | | | |
| o-Xylene | ND | 0.0200 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.25 | | 2.500 | | 90.0 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.42 | | 2.500 | | 96.8 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.30 | | 2.500 | | 92.0 | 63.1 | 141 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Client Name: **EIC**
 Logged by: **Erica Silva**

Work Order Number: **1412300**
 Date Received: **12/22/2014 3:15:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C | Condition |
|--------|---------|-----------|
| Cooler | 8.6 | |
| Sample | 7.9 | |



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N. Tel: 206-352-3790
 Seattle, WA 98103 Fax: 206-352-7178

Date: 1/22/14

Laboratory Project No (Internal): 1412300
 Page: 1 of 1

Client: ENVIRON
 Address: 101 5th Ave SW K22810
 City, State, Zip: Seattle WA
 Tel: 206-1650
 Reports To (PM): Amy Keppert
 Fax: 206-1650
 Project Name: EPA 101-30-34760B
 Location: Seattle WA
 Collected by: Les Anne Walker
 Email: kams@environment.com
 Project No: 30-34760B

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SO = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

| Sample Name | Sample Date | Sample Time | Sample Type (Matrix)* | VOC (EPA 8260) | GX/BTEX | BTEX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCID) | Semi-VOL (EPA 8270 - SIM) | PAH (EPA 8270 - SIM) | PCBs (EPA 8082) | Metals** (60pp / 200.8) | Total (T) Dissolved (D) | Anions (IC)*** | EDS (8011) | Comments/Depth |
|--|-------------|-------------|-----------------------|----------------|---------|------|------------------------------|-----------------------------------|---------------------------|----------------------|-----------------|-------------------------|---------------------------|----------------|------------|----------------|
| 1 SB3-3-122214 | 1/22/14 | 850 | Soil | X | | | | | | | | | | | | |
| 2 SB3-6-122214 | " | 855 | Soil | X | | | | | | | | | | | | |
| 3 SB1-122214 ¹⁴¹²²¹⁴ | " | 940 | Soil | X | | | | | | | | | | | | |
| 4 SB1-6-122214 | " | 9:55 | Soil | X | | | | | | | | | | | | |
| 5 SB2-6-122214 | " | 10:42 | Soil | X | | | | | | | | | | | | |
| 6 SB9-4-122214 | " | 11:15 | Soil | X | | | | | | | | | | | | |
| 7 SB8-122214 | " | | Soil | X | | | | | | | | | | | | Not collected |
| 8 SB9-3-122214 | " | 13:50 | Soil | X | | | | | | | | | | | | Hold |
| 9 SB9-5-122214 | " | 13:55 | Soil | X | | | | | | | | | | | | Hold |
| 10 | | | | | | | | | | | | | | | | |

**Metals Analytst (Circle): MTCA-5 RCRA-9 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zr

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished Date/Time: 1/22/14 15:15 Receiver: Les Anne Walker Date/Time: 1/22/14 15:15

Requisitioned Date/Time: 1/22/14 15:15 Receiver: Les Anne Walker Date/Time: 1/22/14 15:15

TAT -> SameDay^ NextDay^ 2 Day 3 Day STD

*Please coordinate with the lab in advance

Distribution: White - Lab, Yellow - File, Pink - Originator

www.fremontanalytical.com



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Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Environ International Corporation

Amy Kephart
901 5th Ave., Ste. 2820
Seattle, WA 98164

RE: Seneca
Lab ID: 1412329

January 02, 2015

Attention Amy Kephart:

Fremont Analytical, Inc. received 7 sample(s) on 12/24/2014 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward", written in a cursive style.

Chelsea Ward
Project Manager

CC:
Ken Ames
Sam Leick



Date: 01/02/2015

CLIENT: Environ International Corporation
Project: Seneca
Lab Order: 1412329

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1412329-001 | SB5-22-122414 | 12/24/2014 10:15 AM | 12/24/2014 1:22 PM |
| 1412329-002 | SB5-11-122414 | 12/24/2014 10:20 AM | 12/24/2014 1:22 PM |
| 1412329-003 | SB6-11-122414 | 12/24/2014 10:50 AM | 12/24/2014 1:22 PM |
| 1412329-004 | SB6-18.5-122414 | 12/24/2014 11:00 AM | 12/24/2014 1:22 PM |
| 1412329-005 | TB2-122414 | 12/24/2014 8:00 AM | 12/24/2014 1:22 PM |
| 1412329-006 | SB7-10.5-122414 | 12/24/2014 12:50 PM | 12/24/2014 1:22 PM |
| 1412329-007 | SB7-23-122414 | 12/24/2014 12:55 PM | 12/24/2014 1:22 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Environ International Corporation

Project: Seneca

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1412329
Date Reported: 1/2/2015

Client: Environ International Corporation
Project: Seneca
Lab ID: 1412329-001
Client Sample ID: SB5-22-122414

Collection Date: 12/24/2014 10:15:00 AM
Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9689 Analyst: EC

| | | | | | | |
|------------------------|-----|--------|--|-----------|---|-----------------------|
| Diesel (Fuel Oil) | ND | 20.5 | | mg/Kg-dry | 1 | 12/27/2014 7:51:00 AM |
| Heavy Oil | ND | 51.3 | | mg/Kg-dry | 1 | 12/27/2014 7:51:00 AM |
| Surr: 2-Fluorobiphenyl | 107 | 50-150 | | %REC | 1 | 12/27/2014 7:51:00 AM |
| Surr: o-Terphenyl | 106 | 50-150 | | %REC | 1 | 12/27/2014 7:51:00 AM |

Gasoline by NWTPH-Gx

Batch ID: 9716 Analyst: BC

| | | | | | | |
|----------------------------|------|--------|---|-----------|---|----------------------|
| Gasoline | ND | 4.28 | | mg/Kg-dry | 1 | 1/1/2015 12:51:00 AM |
| Surr: 4-Bromofluorobenzene | 89.5 | 65-135 | | %REC | 1 | 1/1/2015 12:51:00 AM |
| Surr: Toluene-d8 | 168 | 65-135 | S | %REC | 1 | 1/1/2015 12:51:00 AM |

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect, no further action required.

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9716 Analyst: BC

| | | | | | | |
|-------------------------------|------|----------|--|-----------|---|----------------------|
| Benzene | ND | 0.0171 | | mg/Kg-dry | 1 | 1/1/2015 12:51:00 AM |
| Toluene | ND | 0.0171 | | mg/Kg-dry | 1 | 1/1/2015 12:51:00 AM |
| Ethylbenzene | ND | 0.0257 | | mg/Kg-dry | 1 | 1/1/2015 12:51:00 AM |
| m,p-Xylene | ND | 0.0171 | | mg/Kg-dry | 1 | 1/1/2015 12:51:00 AM |
| o-Xylene | ND | 0.0171 | | mg/Kg-dry | 1 | 1/1/2015 12:51:00 AM |
| Surr: Dibromofluoromethane | 97.2 | 63.7-129 | | %REC | 1 | 1/1/2015 12:51:00 AM |
| Surr: Toluene-d8 | 99.5 | 64.3-131 | | %REC | 1 | 1/1/2015 12:51:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 113 | 63.1-141 | | %REC | 1 | 1/1/2015 12:51:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R18831 Analyst: KZ

| | | | | | | |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 14.8 | | | wt% | 1 | 12/29/2014 9:19:02 AM |
|------------------|------|--|--|-----|---|-----------------------|

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit
D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412329
Date Reported: 1/2/2015

Client: Environ International Corporation
Project: Seneca
Lab ID: 1412329-002
Client Sample ID: SB5-11-122414

Collection Date: 12/24/2014 10:20:00 AM
Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9689 Analyst: EC

| | | | | | | |
|------------------------|-----|--------|--|-----------|---|-----------------------|
| Diesel (Fuel Oil) | ND | 19.7 | | mg/Kg-dry | 1 | 12/27/2014 8:22:00 AM |
| Heavy Oil | ND | 49.2 | | mg/Kg-dry | 1 | 12/27/2014 8:22:00 AM |
| Surr: 2-Fluorobiphenyl | 109 | 50-150 | | %REC | 1 | 12/27/2014 8:22:00 AM |
| Surr: o-Terphenyl | 109 | 50-150 | | %REC | 1 | 12/27/2014 8:22:00 AM |

Gasoline by NWTPH-Gx

Batch ID: 9716 Analyst: BC

| | | | | | | |
|----------------------------|------|--------|---|-----------|---|---------------------|
| Gasoline | ND | 5.00 | | mg/Kg-dry | 1 | 1/1/2015 1:47:00 AM |
| Surr: 4-Bromofluorobenzene | 89.5 | 65-135 | | %REC | 1 | 1/1/2015 1:47:00 AM |
| Surr: Toluene-d8 | 169 | 65-135 | S | %REC | 1 | 1/1/2015 1:47:00 AM |

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect, no further action required.

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9716 Analyst: BC

| | | | | | | |
|-------------------------------|------|----------|--|-----------|---|---------------------|
| Benzene | ND | 0.0200 | | mg/Kg-dry | 1 | 1/1/2015 1:47:00 AM |
| Toluene | ND | 0.0200 | | mg/Kg-dry | 1 | 1/1/2015 1:47:00 AM |
| Ethylbenzene | ND | 0.0300 | | mg/Kg-dry | 1 | 1/1/2015 1:47:00 AM |
| m,p-Xylene | ND | 0.0200 | | mg/Kg-dry | 1 | 1/1/2015 1:47:00 AM |
| o-Xylene | ND | 0.0200 | | mg/Kg-dry | 1 | 1/1/2015 1:47:00 AM |
| Surr: Dibromofluoromethane | 97.6 | 63.7-129 | | %REC | 1 | 1/1/2015 1:47:00 AM |
| Surr: Toluene-d8 | 98.2 | 64.3-131 | | %REC | 1 | 1/1/2015 1:47:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 113 | 63.1-141 | | %REC | 1 | 1/1/2015 1:47:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R18831 Analyst: KZ

| | | | | | | |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 6.72 | | | wt% | 1 | 12/29/2014 9:19:02 AM |
|------------------|------|--|--|-----|---|-----------------------|

Qualifiers: B Analyte detected in the associated Method Blank D Dilution was required
E Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits ND Not detected at the Reporting Limit
RL Reporting Limit S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412329
Date Reported: 1/2/2015

Client: Environ International Corporation
Project: Seneca
Lab ID: 1412329-003
Client Sample ID: SB6-11-122414

Collection Date: 12/24/2014 10:50:00 AM
Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9689 Analyst: EC

| | | | | | | |
|------------------------|-----|--------|--|-----------|---|-----------------------|
| Diesel (Fuel Oil) | ND | 22.0 | | mg/Kg-dry | 1 | 12/27/2014 8:53:00 AM |
| Heavy Oil | ND | 55.0 | | mg/Kg-dry | 1 | 12/27/2014 8:53:00 AM |
| Surr: 2-Fluorobiphenyl | 108 | 50-150 | | %REC | 1 | 12/27/2014 8:53:00 AM |
| Surr: o-Terphenyl | 107 | 50-150 | | %REC | 1 | 12/27/2014 8:53:00 AM |

Gasoline by NWTPH-Gx

Batch ID: 9716 Analyst: BC

| | | | | | | |
|----------------------------|------|--------|---|-----------|---|---------------------|
| Gasoline | ND | 4.96 | | mg/Kg-dry | 1 | 1/1/2015 3:39:00 AM |
| Surr: 4-Bromofluorobenzene | 89.6 | 65-135 | | %REC | 1 | 1/1/2015 3:39:00 AM |
| Surr: Toluene-d8 | 169 | 65-135 | S | %REC | 1 | 1/1/2015 3:39:00 AM |

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect, no further action required.

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9716 Analyst: BC

| | | | | | | |
|-------------------------------|------|----------|--|-----------|---|---------------------|
| Benzene | ND | 0.0198 | | mg/Kg-dry | 1 | 1/1/2015 3:39:00 AM |
| Toluene | ND | 0.0198 | | mg/Kg-dry | 1 | 1/1/2015 3:39:00 AM |
| Ethylbenzene | ND | 0.0298 | | mg/Kg-dry | 1 | 1/1/2015 3:39:00 AM |
| m,p-Xylene | ND | 0.0198 | | mg/Kg-dry | 1 | 1/1/2015 3:39:00 AM |
| o-Xylene | ND | 0.0198 | | mg/Kg-dry | 1 | 1/1/2015 3:39:00 AM |
| Surr: Dibromofluoromethane | 97.7 | 63.7-129 | | %REC | 1 | 1/1/2015 3:39:00 AM |
| Surr: Toluene-d8 | 102 | 64.3-131 | | %REC | 1 | 1/1/2015 3:39:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 113 | 63.1-141 | | %REC | 1 | 1/1/2015 3:39:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R18831 Analyst: KZ

| | | | | | | |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 13.3 | | | wt% | 1 | 12/29/2014 9:19:02 AM |
|------------------|------|--|--|-----|---|-----------------------|

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit
D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412329
Date Reported: 1/2/2015

Client: Environ International Corporation
Project: Seneca
Lab ID: 1412329-004
Client Sample ID: SB6-18.5-122414

Collection Date: 12/24/2014 11:00:00 AM
Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9689 Analyst: EC

| | | | | | | |
|------------------------|-----|--------|--|-----------|---|-----------------------|
| Diesel (Fuel Oil) | ND | 18.7 | | mg/Kg-dry | 1 | 12/29/2014 9:17:00 AM |
| Heavy Oil | ND | 46.9 | | mg/Kg-dry | 1 | 12/29/2014 9:17:00 AM |
| Surr: 2-Fluorobiphenyl | 109 | 50-150 | | %REC | 1 | 12/29/2014 9:17:00 AM |
| Surr: o-Terphenyl | 105 | 50-150 | | %REC | 1 | 12/29/2014 9:17:00 AM |

Gasoline by NWTPH-Gx

Batch ID: 9716 Analyst: BC

| | | | | | | |
|----------------------------|------|--------|---|-----------|---|---------------------|
| Gasoline | ND | 6.96 | | mg/Kg-dry | 1 | 1/1/2015 4:07:00 AM |
| Surr: 4-Bromofluorobenzene | 89.7 | 65-135 | | %REC | 1 | 1/1/2015 4:07:00 AM |
| Surr: Toluene-d8 | 168 | 65-135 | S | %REC | 1 | 1/1/2015 4:07:00 AM |

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect, no further action required.

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9716 Analyst: BC

| | | | | | | |
|-------------------------------|------|----------|--|-----------|---|---------------------|
| Benzene | ND | 0.0279 | | mg/Kg-dry | 1 | 1/1/2015 4:07:00 AM |
| Toluene | ND | 0.0279 | | mg/Kg-dry | 1 | 1/1/2015 4:07:00 AM |
| Ethylbenzene | ND | 0.0418 | | mg/Kg-dry | 1 | 1/1/2015 4:07:00 AM |
| m,p-Xylene | ND | 0.0279 | | mg/Kg-dry | 1 | 1/1/2015 4:07:00 AM |
| o-Xylene | ND | 0.0279 | | mg/Kg-dry | 1 | 1/1/2015 4:07:00 AM |
| Surr: Dibromofluoromethane | 95.1 | 63.7-129 | | %REC | 1 | 1/1/2015 4:07:00 AM |
| Surr: Toluene-d8 | 98.9 | 64.3-131 | | %REC | 1 | 1/1/2015 4:07:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 113 | 63.1-141 | | %REC | 1 | 1/1/2015 4:07:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R18831 Analyst: KZ

| | | | | | | |
|------------------|------|--|--|-----|---|-----------------------|
| Percent Moisture | 6.74 | | | wt% | 1 | 12/29/2014 9:19:02 AM |
|------------------|------|--|--|-----|---|-----------------------|

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit
D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1412329
Date Reported: 1/2/2015

Client: Environ International Corporation
Project: Seneca
Lab ID: 1412329-005
Client Sample ID: TB2-122414

Collection Date: 12/24/2014 8:00:00 AM
Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|----------------|----|---------------------|
| Volatile Organic Compounds by EPA Method 8260 | | | | Batch ID: 9716 | | Analyst: BC |
| Benzene | ND | 0.0200 | | mg/Kg | 1 | 1/1/2015 4:35:00 AM |
| Toluene | ND | 0.0200 | | mg/Kg | 1 | 1/1/2015 4:35:00 AM |
| Ethylbenzene | ND | 0.0300 | | mg/Kg | 1 | 1/1/2015 4:35:00 AM |
| m,p-Xylene | ND | 0.0200 | | mg/Kg | 1 | 1/1/2015 4:35:00 AM |
| o-Xylene | ND | 0.0200 | | mg/Kg | 1 | 1/1/2015 4:35:00 AM |
| Surr: Dibromofluoromethane | 93.6 | 63.7-129 | | %REC | 1 | 1/1/2015 4:35:00 AM |
| Surr: Toluene-d8 | 100 | 64.3-131 | | %REC | 1 | 1/1/2015 4:35:00 AM |
| Surr: 1-Bromo-4-fluorobenzene | 113 | 63.1-141 | | %REC | 1 | 1/1/2015 4:35:00 AM |

Qualifiers:

| | | | |
|----|---|----|--|
| B | Analyte detected in the associated Method Blank | D | Dilution was required |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |



Work Order: 1412329
CLIENT: Environ International Corporation
Project: Seneca

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Sample ID: 1412329-004ADUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 12/26/2014 | RunNo: 18839 | | | | |
|-----------------------------------|-----------------------|-------------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: SB6-18.5-122414 | Batch ID: 9689 | | | | | Analysis Date: 12/29/2014 | SeqNo: 375018 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | ND | 20.6 | | | | | | 0 | | 30 | |
| Heavy Oil | ND | 51.4 | | | | | | 0 | | 30 | |
| Surr: 2-Fluorobiphenyl | 21.9 | | 20.56 | | 106 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 21.4 | | 20.56 | | 104 | 50 | 150 | | 0 | | |

| Sample ID: LCS-9689 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 12/26/2014 | RunNo: 18839 | | | | |
|----------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9689 | | | | | Analysis Date: 12/26/2014 | SeqNo: 375023 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | 465 | 20.0 | 500.0 | 0 | 92.9 | 65 | 135 | | | | |
| Surr: 2-Fluorobiphenyl | 21.9 | | 20.00 | | 110 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 21.7 | | 20.00 | | 108 | 50 | 150 | | | | |

| Sample ID: MB-9689 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 12/26/2014 | RunNo: 18839 | | | | |
|---------------------------|-----------------------|---------------------|-----------|-------------|------|----------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9689 | | | | | Analysis Date: 12/26/2014 | SeqNo: 375024 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | ND | 20.0 | | | | | | | | | |
| Heavy Oil | ND | 50.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 21.2 | | 20.00 | | 106 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 20.9 | | 20.00 | | 104 | 50 | 150 | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1412329
CLIENT: Environ International Corporation
Project: Seneca

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

| Sample ID: 1412329-001BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 12/31/2014 | RunNo: 18925 | | | | | | | |
|-----------------------------------|-----------------------|-------------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB5-22-122414 | Batch ID: 9716 | | Analysis Date: 1/1/2015 | SeqNo: 376510 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|------|----|-----|---|---|----|---|
| Gasoline | ND | 4.28 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 3.57 | | 2.138 | | 167 | 65 | 135 | | 0 | | S |
| Surr: 4-Bromofluorobenzene | 1.89 | | 2.138 | | 88.6 | 65 | 135 | | 0 | | |

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect, no further action required.

| Sample ID: LCS-9716 | SampType: LCS | Units: mg/Kg | Prep Date: 12/31/2014 | RunNo: 18925 | | | | | | | |
|----------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9716 | | Analysis Date: 12/31/2014 | SeqNo: 376529 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|---|------|----|-----|--|--|--|---|
| Gasoline | 25.1 | 5.00 | 25.00 | 0 | 101 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 4.21 | | 2.500 | | 168 | 65 | 135 | | | | S |
| Surr: 4-Bromofluorobenzene | 2.27 | | 2.500 | | 90.8 | 65 | 135 | | | | |

NOTES:

S - Outlying surrogate recovery observed. Spike recovery was within range.

| Sample ID: MB-9716 | SampType: MBLK | Units: mg/Kg | Prep Date: 12/31/2014 | RunNo: 18925 | | | | | | | |
|---------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9716 | | Analysis Date: 12/31/2014 | SeqNo: 376530 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|-------|--|------|----|-----|--|--|--|---|
| Gasoline | ND | 5.00 | | | | | | | | | |
| Surr: Toluene-d8 | 4.29 | | 2.500 | | 172 | 65 | 135 | | | | S |
| Surr: 4-Bromofluorobenzene | 2.22 | | 2.500 | | 88.9 | 65 | 135 | | | | |

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect, no further action required.

| | | | |
|--------------------|--|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | D Dilution was required | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits | ND Not detected at the Reporting Limit |
| | R RPD outside accepted recovery limits | RL Reporting Limit | S Spike recovery outside accepted recovery limits |



Date: 1/2/2015

Work Order: 1412329
 CLIENT: Environ International Corporation
 Project: Seneca

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID: 1412329-001BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 12/31/2014 | RunNo: 18920 | | | | | | | |
|-----------------------------------|-----------------------|-------------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB5-22-122414 | Batch ID: 9716 | | Analysis Date: 1/1/2015 | SeqNo: 376428 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0171 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.0171 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.0257 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.0171 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.0171 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.09 | | 2.138 | | 97.7 | 63.7 | 129 | | 0 | | |
| Surr: Toluene-d8 | 2.15 | | 2.138 | | 101 | 64.3 | 131 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.39 | | 2.138 | | 112 | 63.1 | 141 | | 0 | | |

| Sample ID: 1412329-002BMS | SampType: MS | Units: mg/Kg-dry | Prep Date: 12/31/2014 | RunNo: 18920 | | | | | | | |
|----------------------------------|-----------------------|-------------------------|--------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: SB5-11-122414 | Batch ID: 9716 | | Analysis Date: 1/1/2015 | SeqNo: 376430 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.04 | 0.0200 | 1.000 | 0 | 104 | 63.5 | 133 | | | | |
| Toluene | 0.980 | 0.0200 | 1.000 | 0 | 97.9 | 63.4 | 132 | | | | |
| Ethylbenzene | 1.03 | 0.0300 | 1.000 | 0 | 103 | 54.5 | 134 | | | | |
| m,p-Xylene | 2.09 | 0.0200 | 2.000 | 0 | 104 | 53.1 | 132 | | | | |
| o-Xylene | 0.996 | 0.0200 | 1.000 | 0 | 99.6 | 53.3 | 139 | | | | |
| Surr: Dibromofluoromethane | 2.58 | | 2.500 | | 103 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.95 | | 2.500 | | 118 | 63.1 | 141 | | | | |

| Sample ID: MB-9716 | SampType: MBLK | Units: mg/Kg | Prep Date: 12/31/2014 | RunNo: 18920 | | | | | | | |
|---------------------------|-----------------------|---------------------|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9716 | | Analysis Date: 12/31/2014 | SeqNo: 376447 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0200 | | | | | | | | | |
| Toluene | ND | 0.0200 | | | | | | | | | |

Qualifiers:

| | | | | | |
|---|--|----|--|----|---|
| B | Analyte detected in the associated Method Blank | D | Dilution was required | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | ND | Not detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike recovery outside accepted recovery limits |

Work Order: 1412329

CLIENT: Environ International Corporation

Project: Seneca

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

| Sample ID: MB-9716 | SampType: MBLK | Units: mg/Kg | | Prep Date: 12/31/2014 | RunNo: 18920 | | | | | | |
|-------------------------------|-----------------------|---------------------|-----------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 9716 | | | Analysis Date: 12/31/2014 | SeqNo: 376447 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Ethylbenzene | ND | 0.0300 | | | | | | | | | |
| m,p-Xylene | ND | 0.0200 | | | | | | | | | |
| o-Xylene | ND | 0.0200 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.40 | | 2.500 | | 95.8 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.46 | | 2.500 | | 98.4 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.80 | | 2.500 | | 112 | 63.1 | 141 | | | | |

| Sample ID: LCS-9716 | SampType: LCS | Units: mg/Kg | | Prep Date: 12/31/2014 | RunNo: 18920 | | | | | | |
|-------------------------------|-----------------------|---------------------|-----------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 9716 | | | Analysis Date: 12/31/2014 | SeqNo: 376449 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.04 | 0.0200 | 1.000 | 0 | 104 | 64.3 | 133 | | | | |
| Toluene | 0.978 | 0.0200 | 1.000 | 0 | 97.8 | 67.3 | 138 | | | | |
| Ethylbenzene | 1.03 | 0.0300 | 1.000 | 0 | 103 | 74 | 129 | | | | |
| m,p-Xylene | 2.07 | 0.0200 | 2.000 | 0 | 104 | 79.8 | 128 | | | | |
| o-Xylene | 1.01 | 0.0200 | 1.000 | 0 | 101 | 72.7 | 124 | | | | |
| Surr: Dibromofluoromethane | 2.57 | | 2.500 | | 103 | 63.7 | 129 | | | | |
| Surr: Toluene-d8 | 2.49 | | 2.500 | | 99.7 | 64.3 | 131 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.95 | | 2.500 | | 118 | 63.1 | 141 | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

D Dilution was required
 J Analyte detected below quantitation limits
 RL Reporting Limit

E Value above quantitation range
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Client Name: **EIC**
 Logged by: **Erica Silva**

Work Order Number: **1412329**
 Date Received: **12/24/2014 1:22:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C | Condition |
|------------|---------|-----------|
| Cooler | 2.5 | Good |
| Sample | 4.3 | Good |
| Temp Blank | 4.9 | Good |

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **1412329** of **1734271**

| | | | | | |
|--|----------------------------------|---|--------------------------|--|----------------|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: ENVIRON | Report To: Amy Kipper | Address: 901 5th Ave Ste 2020 | Copy To: Ken Ames | Attention: | Company Name: |
| Email To: SATHE LR 90164 | Purchase Order No.: | Address: | Space Code: | Reference: | Site Location: |
| Phone: 800-336-1650 | Project Name: Seneca | Address: | Project Project: | Message: | STATE: |
| Requested Due Date: | Project Number: 30-347603 | Address: | Project Profile #: | | |

| ITEM # | SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |
|--------|--|---------------------------------------|-----------------------------|-----------|-------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|
| | | | | DATE | TIME | | | | | | |
| 1 | SB5-22-122414 | | | 12/24/14 | 10:15 | | | | | | |
| 2 | SB5-11-122414 | | | 12/24/14 | 10:20 | | | | | | |
| 3 | SB6-16-122414 | | | 12/24/14 | 10:50 | | | | | | |
| 4 | SB6-18-122414 | | | 12/24/14 | 11:00 | | | | | | |
| 5 | SB2-122414 | | | 12/24/14 | 8:00 | | | | | | |
| 6 | SB7-10-122414 | | | 12/24/14 | 12:50 | | | | | | |
| 7 | SB7-23-122414 | | | 12/24/14 | 12:55 | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---------------------|--|------------------------------|--|-----------------|--|-------------|--|---------------------------|--|-----------------|--|-------------|--|-------------------|--|
| ADDITIONAL COMMENTS | | REINQUISHED BY / AFFILIATION | | DATE | | TIME | | ACCEPTED BY / AFFILIATION | | DATE | | TIME | | SAMPLE CONDITIONS | |
| | | deanna Collier | | 12/24/14 | | 1322 | | Wk Marks | | 12-24-14 | | 1322 | | | |

| | |
|-----------------------------------|-------------------------|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: | DATE Signed (MM/DD/YY): |
| SIGNATURE of SAMPLER: | |

ORIGINAL

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.25% per month for any invoices not paid within 30 days.
 F-ALL-Q-020rev.07, 15-May-2007