

Environmental Subsurface Investigation Prairie Line Trail Phases 2A and 2B

Hood Street-South 25th Street to South 21st Street Tacoma, Washington

for BCRA, Inc.

September 18, 2015



1101 South Fawcett Avenue, Suite 200 Tacoma, Washington 98402 253.383.4940

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Prepared for:

BCRA, Inc.

2106 Pacific Avenue, #300 Tacoma, Washington 98402

Attention: Alan McWain

Prepared by:

GeoEngineers, Inc.

1101 South Fawcett Avenue, Suite 200

Tacoma, Washington 98402

253.383.4940

Tricia S. DeOme, LG

Geologist

Terry R. McPhetridge, LG, LHG

Associate

TSD:TRM:tt:ch

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Table of Contents

1.0 INTRODUCTION		1
2.0 BACKGROUND		1
3.0 SUBSURFACE INVESTIGATION		2
3.1 Soil Borings		2
_		
·		
3.3.3. Groundwater Conditions		4
3.3.4. Field Screening Results		4
4.0 CHEMICAL ANALYTICAL PROGRAM		4
4.1. General		4
4.2. Criteria		4
4.3. Soil Chemical Analytical Results		5
4.3.1. Total Petroleum Hydrocarbons	S	5
4.3.2. Metals		7
4.3.3. VOCs		10
•		
	cal Results	
	S	
4.4.3. VOCs		12
5.0 CONCLUSIONS		13
5.1. Soil		13
5.2. Groundwater Seeps		14
6.0 RECOMMENDATIONS		14
6.1. Soil Management		14
6.1.1. CPAH, Metal or Petroleum Hyd	drocarbon-Contaminated Soil	15
6.1.2. CPAH, Metal or Petroleum Hyd	drocarbon-Impacted Soil	15
6.1.3. Soil With PCE or TCE Detectio	ns	15
6.1.4. Non-Impacted Soil		16
6.2. Groundwater Management		16
7.0 LIMITATIONS		16

LIST OF FIGURES

Figure 1. Vicinity Map

Figures 2A and 2B. Subsurface Explorations and Seep Locations



APPENDICES

Appendix A. Field Exploration Program
Figure A-1 – Key to Exploration Logs

Figure A-2 through A-12 – Log of Borings

Appendix B. Chemical Analytical Program

Appendix C. Report Limitations and Guidelines for Use



1.0 INTRODUCTION

This report summarizes the results of the environmental services for the Phase 2A portion of the City of Tacoma Prairie Line Trail project. The overall City of Tacoma Prairie Line Trail project extends along Hood Street between South 17th Street and South 15th Street and between South 21st Street and South 25th Street in Tacoma, Washington. These two trail segments are connected by the University of Washington campus trail in Tacoma, Washington (UWT).

This project for this study consists of the trail alignment between South 21st Street and South 26th Street. A Site Plan of the project area is included as Figure 1. There are two phases for this project, Phases 2A and 2B. Phase 2A consists of the area surrounding the existing railroad track on the west side of the trail alignment. Phase 2B consists of the remainder of the right-of-way on the east side of the trail alignment. The project limits of each phase are outlined on our Site Plan, Figures 2A and 2B. We understand the City of Tacoma has access rights and funding to design and implement Phase 2A. Phase 2B will be designed to a 30 percent level at this time, but will be placed on hold until access rights and funding become available to evaluate soil and groundwater conditions within the Phase 2B area.

Our understanding of the project is based on discussions with the project team and our review of provided conceptual site plans including a CAD drawing titled "Hood Street Callout Plan" and dated July 22, 2015. We understand that the City of Tacoma plans to redevelop and grade the former rail alignment as a trail for pedestrian and bicycle use. The new trail will likely be paved with concrete or paving units. New light poles and landscaping will be installed along the eastern edge of the trail to create a buffer between Hood Street and the pedestrian trail. As part of the improvements, Hood Street will be repaved and new parking spaces will be delineated. A new retaining wall may be constructed along the toe of the existing slope to define the western edge of the new trail between South 23rd Street and South 25th Street. We understand that stormwater infiltration facilities may be incorporated into the final design.

2.0 BACKGROUND

An existing rail line present within the site was in operation between 1885 and 1969. Another rail line with multiple rail spurs was mapped within the site on the Sanborn Fire Insurance Maps dated between 1888 and 1969. The second rail line was located east of the existing rail alignment. General operations on adjacent properties between 1885 and the present included the following:

- Coal and oil storage
- Automobile repair shops and service stations
- Brewery and associated refrigeration facility
- Maintenance yard with spray painting
- Dry cleaner
- Iron works



- Rail spurs with adjacent platforms to buildings
- Former rail tunnel along Jefferson Avenue south of South 23rd Street

Groundwater seeps have been observed between South 23rd Street and South 25th Street. The groundwater seeps may be associated with the former rail tunnel or the shallow groundwater in the area. The groundwater seeps drain to a ditch situated adjacent and west of the existing rail alignment.

3.0 SUBSURFACE INVESTIGATION

3.1. Soil Borings

Eleven environmental soil borings (P2A-HA1 and P2A-B1 through P2A-B10) were completed at the site on July 7 and 8, 2015. Nine of the soil borings were advanced to depths of approximately 4 feet below ground surface (bgs) with the exception of borings P2A-HA1 (advanced to 1 foot bgs) and P2A-B1 (advanced to 2 feet bgs). The majority of the borings were completed using direct-push drilling methods except borings P2A-HA1, P2A-B3 and P2A-B6 which were completed using a manual hand auger. Subsurface exploration logs and the field exploration program are included in Appendix A. Subsurface exploration locations are shown on Figures 2A and 2B.

The boring locations and depths were selected to reflect areas where soil excavation will occur based on the most current design and preliminary discussions with the design team. Eight of the soil borings (P2A-B1, P2A-B2, P2A-B4, P2A-B5 and P2A-B7 to P2A-B10) were advanced along the east side of the existing rail alignment between South 21st Street and South 25th Street. Two soil borings (P2A-B3 and P2A-B6) were advanced on the hillslope west of the groundwater seep ditch between South 23rd Street and South 25th Street. One soil boring (P2A-HA1) was advanced within the drainage ditch north of the intersection of Hood Street and South 25th Street.

Soil samples were collected within fill and native soils, if encountered, in each of the 11 explorations to the full depth explored. The samples collected from the 11 environmental soil borings were identified using the following identification system: P2A-B#- start depth-end depth, where P2A indicates project Phase 2A, B# is the environmental boring number and start depth-end depth is the depth interval of specific sample (e.g., P2A-B1-0-1 was collected from the Phase 2A area from boring B1 from 0 to 1 foot bgs).

The subsurface explorations were monitored by a representative of GeoEngineers who visually classified and performed field screening tests on soil samples collected from the subsurface explorations for evidence of petroleum hydrocarbons and photoionizable vapors. Subsurface conditions and field screening results are shown on the subsurface exploration logs presented in Appendix A. The borings were abandoned in accordance with Washington State Department of Ecology (Ecology) regulations.

3.2. Groundwater Seep Samples

Three water samples were collected from groundwater seeps (P2A-S1, P2A-S2 and P2A-S3) located at the site on July 7, 2015. The water samples were placed directly into laboratory-supplied bottles. Seep sample P2A-S1 was collected from the groundwater seep situated on the vegetated hillslope at the southwest corner of the City of Tacoma construction yard located west of the site. Seep samples P2A-S2 and P2A-S3 were collected from the drainage ditch between South 23rd Street and South 25th Street. The field exploration program is included in Appendix A. Groundwater seep locations are shown on Figure 2A.



One set of field parameters were collected prior to sample collection using a multi-parameter water quality meter at sample locations P2A-S2 and P2A-S3. Field parameters were not recorded at seep P2A-S1 because water at this location was observed to contain organic debris and soil material that may potentially be damaging to field instruments.

The samples collected from the three groundwater seeps were identified using the following identification system: P2A-S#-yymmdd, where P2A indicates project Phase 2A, S# is the groundwater seep number and yymmdd is the date on which the sample was collected (e.g., P2A-S1-150707 was collected from groundwater seep S1 located within the Phase 2A area on July 7, 2015).

3.3. Site Conditions

3.3.1. Surface Conditions

The project site is located on Hood Street in a commercial and industrial area of Downtown Tacoma. The project boundary is defined by South 21st Street to the north and South 25th Street to the south. Hood Street is an asphalt and gravel surfaced roadway with unimproved gravel shoulders, which are used for on-street parking. The existing railroad line is located along the west side of Hood Street and generally defines the outer western edge of the roadway shoulder.

The east and west sides of Hood Street are defined by commercial properties between South 21st Street and South 23rd Street. There are access driveways and loading docks to the properties along Hood Street.

Commercial buildings are present on the east side of Hood Street between South 23rd Street and South 25th Street is defined by an approximately 2- to 5-foot tall slope. The slope appears to be at a gradient of about 1.5H:1V (horizontal: vertical). The slope is vegetated with blackberry bushes, grasses and shrubs. A construction equipment storage yard is located at the top of the slope. There is a ditch at the base of the slope. The bottom of the ditch is about 2 feet lower than the elevation of Hood Street. We observed flowing surface water in the ditch during our field investigation. The depth of the water was observed to be about 1 foot. We understand that the sources of the water are from a culvert that continually discharges collected water near South 25th Street and from water seeps coming from the slope face north of the culvert. We were not able to accurately determine the exact location of the seeps due to the dense vegetation on the slope.

3.3.2. Soil Conditions

Borings P2A-B1, P2A-B2, P2A-B9 and P2A-B10 were advanced through about 1 to 2 inches of asphalt concrete. Borings P2A-B4, P2A-B5, P2A-B7 and P2A-B8 were advanced through the gravel surface cover present on Hood Street. Fill material was generally encountered about 1 to 3.75 feet bgs below the asphalt or gravel roadway surfacing in the push probe explorations. Native soils were observed beneath the fill material. Fill material in the direct-push explorations generally consisted of medium dense gravels, medium dense sand with silt, and loose silty sands. We observed occasional debris in some of the fill soils. With the exception of the gravels and sand with silt, the fill material was generally observed to be dark brown to black in color. Native soils below the fill soils in the push probe explorations generally consisted of very soft to medium stiff silts and medium dense silty sands. All of the push probe explorations were terminated within the native soils.



Fill material was observed in the hand auger explorations P2A-B3, P2A-B6 and P2A-HA1, Fill material generally consisted of loose dark brown to black silty sand. The hand auger explorations were terminated within the fill material.

We encountered cobbles in boring P2A-B8. It is our experience that cobbles and boulders can be present in the native soils at the project vicinity although not encountered in the other explorations during this investigation.

3.3.3. Groundwater Conditions

Groundwater was encountered between 1.5 and 2.5 feet bgs during drilling of explorations P2A-B1, P2A-B2, P2A-B3, P2A-B5 and P2A-B7. We anticipate that the observed groundwater is likely "perched" groundwater and not a part of the regional groundwater table based on our experience in the area. Perched groundwater could be encountered in excavations deeper than about 1 foot deep at the project site. It is also common for groundwater to migrate through the fill and perch upon the native soil. The likelihood of encountering groundwater and the amount of groundwater if encountered in excavations will likely be greatest in the areas near the ditch south of South 23rd Street where we observed surface water and water seeps during our exploration activities. Groundwater and seepage conditions should be expected to vary as a result of seasons and precipitation.

3.3.4. Field Screening Results

The following field screening results were observed in the soil samples collected during this investigation:

- Concentrations of photoionizable vapors greater than 10 parts per million (ppm) were observed from 1 to 2 feet bgs in boring P2A-B9 (340 ppm).
- Evidence of slight to moderate sheen was observed in boring P2A-B2 from approximately 1 to 3 feet bgs and in boring P2A-B10 from approximately 0 to 2 feet bgs.

Field screening results are shown on the subsurface exploration logs presented in Appendix A.

4.0 CHEMICAL ANALYTICAL PROGRAM

4.1. General

Soil and groundwater seep samples were submitted to OnSite Laboratories, in Redmond, Washington for chemical analysis. The chemical analytical data for the soil samples are summarized in Table 1. The chemical analytical data for the groundwater seep samples are summarized in Table 2. Chemicals that were not detected at or greater than the laboratory reporting limits in the analyzed samples are typically not included in the tables. Copies of the laboratory reports are presented in Appendix B.

4.2. Criteria

The chemical analytical data are described below relative to the Model Toxics Control Act (MTCA) Method A cleanup levels for each chemical of concern. Method B unrestricted land use (ULU) criteria were used for comparison of barium, selenium and silver and specific polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs) because Method A cleanup levels have not been established for these compounds. The soil chemical analytical data were also compared to the 2011 Ecology Guidance for



Remediation of Petroleum Contaminated Sites (Ecology Guidance) regarding reuse of soil as commercial fill.

Soil has been characterized as either being contaminated soil or impacted soil in this report. The description for each is discussed further in the following list including the typical disposal criteria.

- Contaminated soil is defined as the chemical of concern detected at a concentration greater than the respective MTCA Method A ULU cleanup level. Contaminated soil is required to be disposed at a permitted Subtitle D landfill under State and federal regulations.
- Impacted soil is defined below by the chemical of concern identified during this study.
 - Petroleum-impacted soil is defined as the chemical of concern detected at a concentration less than the MTCA Method A ULU cleanup level but greater than the soil reuse criteria (Ecology, 2011). Petroleum-impacted soil will need to be managed appropriately if excavated, and/or disposed off-site. Soil with chemical of concern detected at concentrations less than the impacted soil criteria is not considered impacted per the Ecology Petroleum Guidance.
 - Tetrachloroethene (PCE) or trichloroethene (TCE) impacted soil is defined as PCE or TCE detected at a concentration less than the MTCA Method A ULU cleanup level. PCE/TCE-impacted soil is required to be disposed at a permitted Subtitle D landfill under State and federal regulations.
 - CPAH-impacted soil is defined as cPAHs detected at a concentration less than the MTCA Method A ULU cleanup level but are detected at a concentration greater than the laboratory reporting limit. Soil disposal facilities will generally not accept soil with cPAH detections based on our experience cPAH-impacted soil is typically disposed at a Subtitle D landfill or treatment facility. CPAH-impacted soil can be reused on site as fill.
 - Metal-impacted soil is defined as arsenic, cadmium and mercury detected at concentrations greater than the respective Puget Sound background levels (Ecology, 1994) but less than the respective MTCA Method A cleanup levels or MTCA Method B criteria. Chromium was not compared to the Puget Sound background levels in soil because chromium is typically not a prevalent chemical of concern near railroads. Disposal facilities in the area have mixed permit requirements in regards to metal-impacted soil.

4.3. Soil Chemical Analytical Results

Soil samples were submitted for chemical analysis of petroleum hydrocarbon identification by Ecology-approved method NWTPH-HCID (16 soil samples) with appropriate follow-up of gasoline-range petroleum hydrocarbons by Ecology-approved method NWTPH-Gx (three samples), diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx (13 samples), RCRA metals by Environmental Protection Agency (EPA) method 6000/7000 series (16 samples), VOCs by EPA method 8260 (19 samples), SVOCs by EPA method 8270SIM (2 samples) and PAHs by EPA method 8270SIM (21 samples). The chemical analytical results are described below.

4.3.1. Total Petroleum Hydrocarbons

Total petroleum hydrocarbons consists of lube oil-, diesel- and gasoline-range petroleum hydrocarbons as discussed in the following sections.



Lube Oil-Range Petroleum

Lube oil-range petroleum hydrocarbons were detected at concentrations greater than the MTCA Method A ULU cleanup level (2,000 milligrams per kilogram [mg/kg]) in one soil sample. Lube oil-contaminated soil was identified in the following boring/soil sample.

■ Boring P2A-B3. Soil sample P2A-B3-1-2 (2,100 mg/kg) collected from 1 to 2 feet bgs. Lube-oil range petroleum hydrocarbons were detected at concentrations less than the MTCA Method A ULU cleanup level but greater than the soil reuse criteria (200 mg/kg) in the next two underlying samples P2A-B3-2-3 (880 mg/kg) collected from 2 to 3 feet bgs and P2A-B3-3-4 (360 mg/kg) collected from 3 to 4 feet bgs. Lube oil-contaminated soil in the area of boring P2A-B3 appears to be limited to a depth of 2 feet bgs. Lube-oil impacted soil appears to exist in the area of boring P2A-B3 from approximately 2 to at least 4 feet bgs (anticipated depth of the proposed excavation).

Lube oil-range petroleum hydrocarbons were detected at concentrations less than the MTCA Method A ULU cleanup level but greater than the soil reuse criteria (200 mg/kg) in 11 soil samples. Lube oil-impacted soil was identified in the following borings/soil samples (not including boring P2A-B3 discussed above).

- Boring P2A-B1. Soil sample P2A-B1-0-1 (1,600 mg/kg) collected from the ground surface to 1 foot bgs. Lube oil was not detected in the next underlying sample collected from 1 to 2 feet bgs (P2A-B1-1-2). The lube oil-impacted soil in the area of boring P2A-B1 appears to be limited to 1 foot bgs.
- Boring P2A-B2. Soil sample P2A-B2-1-2 (690 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B1 were not analyzed for lube oil. Soil in the area of boring P2A-B1 appears to be impacted with lube oil from the ground surface to at least 1 foot bgs, and may be impacted to a greater depth.
- **Boring P2A-B4.** Soil sample P2A-B4-0-1 (1,800 mg/kg) collected from the ground surface to 1 foot bgs. Lube oil was not detected in the next underlying sample collected from 1 to 2 feet bgs (P2A-B4-1-2). The lube oil-impacted soil in the area of boring P2A-B4 appears to be limited to 1 foot bgs.
- Boring P2A-B5. Soil sample P2A-B5-1-2 (220 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B5 were not analyzed for lube oil. Soil in the area of boring P2A-B5 appears to be impacted with lube oil from the ground surface to at least 1 foot bgs, and may be impacted to a greater depth.
- Boring P2A-B6. Soil samples P2A-B6-0-1 (1,300 mg/kg) collected from 0 to 1 foot bgs and P2A-B6-2-3 (380 mg/kg) collected from 2 to 3 feet bgs. Underlying soil samples collected from boring P2A-B6 were not analyzed for lube oil. Soil in the area of boring P2A-B6 appears to be impacted with lube oil from the ground surface to at least 3 feet bgs, and may be impacted to a greater depth.
- Boring P2A-B7. Soil sample P2A-B7-1-2 (510 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B7 were not analyzed for lube oil. Soil in the area of boring P2A-B7 appears to be impacted with lube oil from 1 to at least 2 feet bgs, and may be impacted to a greater depth.
- Boring P2A-B9. Soil sample P2A-B9-1-2 (350 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B9 were not analyzed for lube oil. Soil in the area of boring P2A-B9 appears to be impacted with lube oil from 1 to at least 2 feet bgs, and may be impacted to a greater depth.



■ Boring P2A-HA1. Soil sample P2A-HA1-0-1 (310 mg/kg) collected from 0 to 1 feet bgs. Underlying soil samples were not collected from boring P2A-HA1 because the hand auger extended to 1 foot bgs. Soil in the area of boring P2A-HA1 appears to be impacted with lube oil from 0 to at least 1 feet bgs, and may be impacted to a greater depth.

Lube oil-range petroleum hydrocarbons were either not detected or were detected at concentrations less than the respective MTCA Method A ULU cleanup levels and soil reuse criteria in the remaining analyzed soil samples.

Diesel- Range Petroleum

Diesel-range petroleum hydrocarbons were detected at concentrations greater than the soil reuse criteria (200 mg/kg) but less than the MTCA Method A ULU cleanup level in 12 soil samples. Diesel-impacted soil was identified in the following borings/soil samples.

- Boring P2A-B2. Soil sample P2A-B2-1-2 (220 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B2 were not analyzed for diesel. Soil in the area of boring P2A-B2 appears to be impacted with diesel from 1 to at least 2 feet bgs, and may be impacted to a greater depth.
- Boring P2A-B3. Soil sample P2A-B3-1-2 (310 mg/kg) collected from 1 to 2 feet bgs. Diesel was detected at concentrations less than the impacted-soil criteria in the next two underlying samples collected from 2 to 3 feet bgs (P2A-B3-2-3) and 3 to 4 feet bgs (P2A-B3-3-4). The diesel-impacted soil in the area of boring P2A-B3 appears to be limited to 2 feet bgs.
- Boring P2A-B4. Soil sample P2A-B1-0-1 (310 mg/kg) collected from the ground surface to 1 foot bgs. Diesel was not detected in the next underlying sample collected from 1 to 2 feet bgs (P2A-B4-1-2). The diesel-impacted soil in the area of boring P2A-B4 appears to be limited to 1 foot bgs.
- Boring P2A-B6. Soil sample P2A-B6-0-1 (360 mg/kg) collected from the ground surface to 1 foot bgs. Diesel was detected at concentrations less than the impacted-soil criteria in the next underlying samples collected from 2 to 3 feet bgs (P2A-B6-2-3). The diesel-impacted soil in the area of boring P2A-B3 appears to be limited to 1 foot bgs.

Diesel-range petroleum hydrocarbons were either not detected or were detected at concentrations less than the MTCA Method A ULU cleanup level and petroleum reuse criteria in the remaining analyzed soil samples.

Gasoline Range Petroleum

Gasoline-range petroleum hydrocarbons were not detected in the analyzed soil samples.

4.3.2. Metals

Arsenic

Arsenic was detected at concentrations greater than the MTCA Method A ULU cleanup level (20 mg/kg) in six soil samples. Arsenic-contaminated soil was identified in the following borings/soil samples.

Boring P2A-B3. Soil samples P2A-B3-1-2 (70 mg/kg) collected from 1 to 2 feet bgs and P2A-B3-3-4 (46 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B3 appears to be contaminated with arsenic from the ground surface to at least 4 feet bgs (anticipated depth of the proposed excavation).



- Boring P2A-B6. Soil samples P2A-B6-0-1 (74 mg/kg) collected from 0 to 1 feet bgs, P2A-B6-2-3 (37 mg/kg) collected from 2 to 3 feet bgs and P2A-B6-3-4 (36 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B6 appears to be contaminated with arsenic from the ground surface to at least 4 feet bgs (anticipated depth of the proposed excavation).
- Boring P2A-HA1. Soil sample P2A-HA1-0-1 (190 mg/kg) collected from 0 to 1 feet bgs. Underlying soil samples were not collected from boring P2A-HA1 because the hand auger extended to 1 foot bgs. Soil in the area of boring P2A-HA1 appears to be contaminated with arsenic from the ground surface to at least 1 foot bgs.

Arsenic was detected at concentrations less than the MTCA Method A ULU cleanup level but greater than the Puget Sound background level (7 mg/kg) in two soil samples. Arsenic-impacted soil was identified in the following borings/soil samples.

- **Boring P2A-B1.** Soil sample P2A-B1-0-1 (15 mg/kg) collected from 0 to 1 feet bgs. Arsenic was not detected in the next underlying sample collected from 1 to 2 feet bgs (P2A-B1-1-2). The arsenic-impacted soil in the area of boring P2A-B4 appears to be limited to 1 foot bgs.
- Boring P2A-B7. Soil samples P2A-B7-1-2 (14 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B7 were not analyzed for arsenic. Soil in the area of boring P2A-B7 appears to be impacted with arsenic from 1 to at least 2 feet bgs, and may be impacted to a greater depth.

Arsenic was either not detected or was detected at concentrations less than the MTCA Method A ULU cleanup level or Puget Sound Background Level in the remaining analyzed soil samples.

Lead

Lead was detected at concentrations greater than the MTCA Method A ULU cleanup level (250 mg/kg) in six soil samples. Lead-contaminated soil was identified in the following borings/soil samples.

- Boring P2A-B2. Soil sample P2A-B2-1-2 (410 mg/kg) collected from 1 to 2 feet bgs. Lead was not detected in the next underlying sample collected from 3 to 4 feet bgs (P2A-B2-3-4). The lead-contaminated soil in the area of boring P2A-B2 appears to be limited to approximately 3 feet bgs.
- Boring P2A-B3. Soil samples P2A-B3-1-2 (260 mg/kg) collected from 1 to 2 feet bgs and P2A-B3-3-4 (580 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B3 appears to be contaminated with lead from the ground surface to at least 4 feet bgs (anticipated depth of the proposed excavation).
- Boring P2A-B6. Soil samples P2A-B6-0-1 (520 mg/kg) collected from 0 to 1 feet bgs, P2A-B6-2-3 (270 mg/kg) collected from 2 to 3 feet bgs and P2A-B6-3-4 (420 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B6 appears to be contaminated with lead from the ground surface to at least 4 feet bgs (anticipated depth of the proposed excavation).

Lead was detected at concentrations less than the MTCA Method A ULU cleanup level (250 mg/kg) but greater than the soil reuse criteria (50 mg/kg) in seven soil samples. Lead-impacted soil was identified in the following borings/soil samples.



- Boring P2A-B1. Soil sample P2A-B1-0-1 (140 mg/kg) collected from the ground surface to 1 foot bgs. Lead was not detected in the next underlying sample collected from 1 to 2 feet bgs (P2A-B1-1-2). The lead-impacted soil in the area of boring P2A-B1 appears to be limited to approximately 1 foot bgs.
- Boring P2A-B4. Soil samples P2A-B4-0-1 (88 mg/kg) collected from 0 to 1 foot bgs and P2A-B4-1-2 (57 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B4 were not analyzed for lead. Soil in the area of boring P2A-B4 appears to be impacted with lead from the ground surface to at least 2 feet bgs, and may be impacted to a greater depth.
- Boring P2A-B5. Soil sample P2A-B5-1-2 (72 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B5 were not analyzed for lead. Soil in the area of boring P2A-B5 appears to be impacted with lead from the ground surface to at least 2 feet bgs, and may be impacted to a greater depth.
- Boring P2A-B7. Soil sample P2A-B7-1-2 (120 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B7 were not analyzed for lead. Soil in the area of boring P2A-B7 appears to be impacted with lead from the ground surface to at least 2 feet bgs, and may be impacted to a greater depth.
- Boring P2A-B9. Soil sample P2A-B9-1-2 (81 mg/kg) collected from 1 to 2 feet bgs. Underlying soil samples collected from boring P2A-B9 were not analyzed for lead. Soil in the area of boring P2A-B9 appears to be impacted with lead from the ground surface to at least 2 feet bgs, and may be impacted to a greater depth.
- Boring P2A-HA1. Soil sample P2A-HA1-0-1 (170 mg/kg) collected from 0 to 1 feet bgs. Underlying soil samples were not collected from boring P2A-HA1. Soil in the area of boring P2A-HA1 appears to be impacted with lead from the ground surface to at least 1 foot bgs.

Lead was either not detected or was detected at concentrations less than the MTCA Method A ULU cleanup level and soil reuse criteria in the remaining analyzed soil samples.

Other Metals

Boring P2A-B9. Cadmium (2.6 mg/kg) and mercury (6.3 mg/kg) were detected at concentrations greater than the respective MTCA Method A ULU cleanup levels (2 mg/kg each) in soil sample P2A-B9-1-2 collected from 1 to 2 feet bgs. Cadmium and mercury were not detected in the next underlying sample collected from 3 to 4 feet bgs. Cadmium- and mercury-contaminated soil appears to be limited to 3 feet bgs in the area of boring P2A-B9.

Boring P2A-B3. Mercury was detected at concentrations less than the MTCA Method A ULU cleanup level but greater than the Puget Sound background level (0.07 mg/kg) in soil samples P2A-B3-1-2 (0.29 mg/kg) collected from 1 to 2 feet bgs and P2A-B3-3-4 (1.7 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B3 appears to be impacted with mercury from the ground surface to at least 4 feet bgs (anticipated depth of the proposed excavation).

Boring P2A-B6. Cadmium (1.7 mg/kg) and mercury (0.6 mg/kg) were detected at concentrations less than the respective MTCA Method A ULU cleanup levels but greater than the Puget Sound background levels (1 mg/kg and 0.07 mg/kg, respectively) in soil sample P2A-B6-0-1 collected from 0 to 1 feet bgs. Cadmium and mercury were either not detected or were detected at concentrations less than the applicable Puget



Sound background level in the next underlying sample collected from 2 to 3 feet bgs. Cadmium- and mercury-impacted soil appears to be limited to 2 feet bgs in the area of boring P2A-B6.

Other metals were either not detected or were detected at concentrations less than the applicable MTCA Method A ULU cleanup level or Method B criteria.

4.3.3.VOCs

Tetrachloroethene (PCE) was detected at concentrations greater than the MTCA Method A ULU cleanup level (0.05 mg/kg) in two soil samples. PCE-contaminated soil was identified in the following boring/soil samples.

- Boring P2A-B6. Soil sample P2A-B6-3-4 (0.051 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B3 appears to be contaminated with PCE from 3 to at least 4 feet bgs (anticipated depth of the proposed excavation).
- Boring P2A-HA1. Soil sample P2A-HA1-0-1 (0.060 mg/kg) collected from 0 to 1 feet bgs. Underlying soil samples were not collected in boring P2A-HA1 because the hand auger extended to a depth of 1 foot bgs. Soil in the area of boring P2A-HA1 appears to be contaminated with PCE from the ground surface to at least 1 foot bgs.

PCE was detected at concentrations less than the MTCA Method A ULU cleanup level in two soil samples. PCE-impacted soil was identified in the following boring/soil samples.

Boring P2A-B6. Soil samples P2A-B6-0-1 (0.0016 mg/kg) collected from 0 to 1 foot bgs and P2A-B6-2-3 (0.0023 mg/kg) collected from 2 to 3 feet bgs. PCE was detected at a concentration greater than the MTCA Method A ULU cleanup level in the next underlying soil sample collected from 3 to 4 feet bgs as described above. SPCE-impacted soil in the area of boring P2A-B6 appears to be present from the ground surface to 3 feet bgs and PCE-contaminated soil from 3 to at least 4 feet bgs (anticipated depth of the proposed excavation).

Trichloroethene (TCE) was detected at concentrations less than the MTCA Method A ULU cleanup level (0.03 mg/kg) in two soil samples. TCE-impacted soil was identified in the following two soil samples.

- Boring P2A-B7. Soil sample P2A-B7-1-2 (0.013 mg/kg) collected from 1 to 2 feet bgs. TCE was not detected in the next underlying sample collected from 3 to 4 feet bgs (P2A-B7-2-3). The TCE-impacted soil in the area of boring P2A-B7 appears to be limited to 2 foot bgs.
- Boring P2A-HA1. Soil sample P2A-HA1-0-1 (0.0092 mg/kg) collected from 0 to 1 feet bgs. Underlying soil samples were not collected in boring P2A-HA1 because the hand auger extended to a depth of 1 foot bgs. Soil in the area of boring P2A-HA1 appears to be impacted with TCE from the ground surface to at least 1 foot bgs.

PCE and TCE were not detected in the remaining analyzed soil samples. Other VOCs were either not detected or were detected at concentrations less than the applicable Method A ULU cleanup level or Method B criteria in the analyzed soil samples.



4.3.4.PAHs/SVOCs

Carcinogenic PAHs (cPAHs) were detected at Total Toxic Equivalent Concentration (TTEC) greater than the MTCA Method A ULU cleanup level (TTEC = 0.1 mg/kg) in 10 soil samples collected within seven borings. CPAH-contaminated soil was identified in the following borings/soil samples.

- Boring P2A-B2. Soil sample P2A-B2-1-2 (TTEC = 0.25 mg/kg) collected from 1 to 2 feet bgs. CPAHs were not detected in the next underlying sample from 3 to 4 feet bgs (P2A-B2-3-4). The cPAH-contaminated soil in the area of boring P2A-B2 appears to be limited to 3 feet bgs.
- Boring P2A-B3. Soil samples P2A-B3-1-2 (TTEC = 0.22 mg/kg) collected from 1 to 2 feet bgs and P2A-B3-3-4 (TTEC = 0.32 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B3 appears to be contaminated with cPAHs from the ground surface to at least 4 feet bgs (anticipated depth of the proposed excavation).
- **Boring P2A-B4.** Soil sample P2A-B4-1-2 (TTEC = 2 mg/kg) collected from 1 to 2 feet bgs. CPAHs were not detected in the next underlying sample from 3 to 4 feet bgs (P2A-B4-3-4). The cPAH-contaminated soil in the area of boring P2A-B4 appears to be limited to a depth of 3 feet bgs.
- Boring P2A-B6. Soil samples P2A-B6-0-1 (TTEC = 0.1 mg/kg) collected from 0 to 1 feet bgs. P2A-B6-2-3 (TTEC = 0.75 mg/kg) collected from 2 to 3 feet bgs, and P2A-B6-3-4 (TTEC = 1.2 mg/kg) collected from 3 to 4 feet bgs. Soil in the area of boring P2A-B6 appears to be contaminated with cPAHs from the ground surface to at least 4 feet bgs (anticipated depth of the proposed excavation).
- Boring P2A-B7. Soil sample P2A-B7-1-2 (TTEC = 0.28 mg/kg) collected from 1 to 2 feet bgs. CPAHs were not detected in the next underlying sample from 3 to 4 feet bgs (P2A-B7-3-4). The cPAH-contaminated soil in the area of boring P2A-B7 appears to be limited to a depth of 3 feet bgs.
- Boring P2A-B9. Soil sample P2A-B9-1-2 (TTEC = 0.15 mg/kg) collected from 1 to 2 feet bgs. CPAHs were not detected in the next underlying sample from 3 to 4 feet bgs (P2A-B9-3-4). The cPAH-contaminated soil in the area of boring P2A-B9 appears to be limited to a depth of 3 feet bgs.
- Boring P2A-HA1. Soil sample P2A-HA1-0-1 (TTEC = 1.3 mg/kg) collected from 0 to 1 feet bgs. Underlying soil samples were not collected from boring P2A-HA1. Soil in the area of boring P2A-HA1 appears to be impacted with cPAHs from the ground surface to at least 1 foot bgs.

CPAHs were detected at TTEC concentration less than the MTCA Method A ULU cleanup level in the following five soil samples with the concentrations detected identified in parentheses.

- P2A-B1-0-1 (TTEC = 0.09 mg/kg). Collected from the ground surface to 1 foot bgs in boring P2A-B1.
- P2A-B5-1-2 (TTEC = 0.09 mg/kg). Collected from 1 to 2 feet bgs in boring P2A-B5.
- P2A-B8-0-1 (TTEC = 0.02 mg/kg). Collected from the ground surface to 1 foot bgs in boring P2A-B8.
- P2A-B8-2-3 (TTEC = 0.046 mg/kg). Collected from 2 to 3 feet bgs in boring P2A-B8.
- P2A-B10-1-2 (TTEC = 0.002 mg/kg). Collected from 1 to 2 feet bgs in boring P2A-B10.

CPAHs were not detected in the remaining analyzed soil samples. Non-carcinogenic PAHs and SVOCs were either not detected or were detected at concentrations less than the applicable MTCA Method A ULU cleanup level, or Method B criteria in the analyzed soil samples.



4.4. Groundwater Seep Chemical Analytical Results

Three groundwater seep samples were submitted for chemical analysis of gasoline-range petroleum hydrocarbons by Ecology-approved method NWTPH-Gx, diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx, dissolved RCRA metals by EPA method 6000/7000 series, and VOCs by EPA method 8260. The chemical analytical results are described below.

4.4.1. Total Petroleum Hydrocarbons

Lube oil-range petroleum hydrocarbons were detected at a concentration (870 micrograms per liter [μ g/L]) greater than the MTCA Method A cleanup level (500 μ g/L) in the groundwater seep sample collected from seep P2A-S1 (P2A-S1-150707). The groundwater seep sample was collected from next to the former tunnel entrance. Lube oil-range petroleum hydrocarbons were not detected in the remaining analyzed groundwater seep samples.

Diesel-range petroleum hydrocarbons were detected at a concentration (430 μ g/L) less than the MTCA Method A cleanup level (500 μ g/L) in the groundwater seep sample collected from seep P2A-S1 (P2A-S1-150707). Diesel-range petroleum hydrocarbons were not detected in the remaining analyzed groundwater seep samples.

Gasoline-range petroleum hydrocarbons were not detected in the analyzed groundwater seep samples.

4.4.2. Dissolved Metals

Dissolved RCRA metals were not detected in the analyzed groundwater seep samples.

4.4.3. VOCs

PCE was detected at concentrations less than the MTCA Method A ULU cleanup level (5 μ g/L) in the three analyzed groundwater seep samples with the concentrations detected identified in parentheses.

- P2A-S1-150707 (0.66 μg/L)
- P2A-S2-150707 (0.59 μg/L)
- P2A-S3-150707 (0.38 μg/L)

TCE was detected at concentrations less than the MTCA Method A ULU cleanup level (5 μ g/L) in the three analyzed groundwater seep samples with the concentrations detected identified in parentheses.

- P2A-S1-150707 (1.5 μg/L)
- P2A-S2-150707 (1.4 μg/L)
- P2A-S3-150707 (0.76 μg/L)

Other VOCs were either not detected or were detected at concentrations less than the applicable Method A cleanup level or Method B criteria in the analyzed groundwater seep samples.



5.0 CONCLUSIONS

The results of the environmental subsurface investigation indicate that portions of the soil to be excavated at the site during construction is impacted and/or contaminated with petroleum hydrocarbons, arsenic, cadmium, mercury, lead, PCE, TCE and/or cPAHs. Shallow groundwater is contaminated or impacted with lube oil-range petroleum hydrocarbons, diesel-range petroleum hydrocarbons, PCE and/or TCE in the area of the site based on the results of the groundwater seep sampling. The approximate vertical limits of impacted and contaminated soil encountered at each subsurface exploration location are shown on Figure 2A.

5.1. Soil

The general locations of contaminated and impacted soil are described below relative to each soil boring completed for this project:

- Boring P2A-B1: Impacted soil (lube oil, arsenic, lead and cPAHs) is present in the area of boring P2A-B1 from 0 to 1 feet bgs.
- Boring P2A-B2: Impacted soil (diesel and lube oil) is present in the area of boring P2A-B2 from 1 to at least 2 feet bgs. Contaminated soil (lead and cPAHs) is present in the area of boring P2A-B2 from 1 to at least 2 feet bgs and may be present from the 1 to 3 feet bgs based on the depth of the next underlying sample collected from boring P2A-B2.
- Boring P2A-B3: Contaminated soil (lube oil, arsenic, lead and cPAHs) is present from 1 to at least 4 feet bgs in the area of boring P2A-B3. Diesel-impacted soil is also present from 1 to 2 feet bgs, and mercury-impacted soil is present from 1 to at least 4 feet bgs.
- Boring P2A-B4: Impacted soil (diesel, lube oil and lead) is present from the ground surface to 1 foot bgs. Impacted (lead) and contaminated (mercury and cPAHs) are present from 1 to 2 feet bgs in the area of boring P2A-B4. Mercury-contaminated and cPAH-contaminated soil may be present from the ground surface to 3 feet bgs (the depth of the next underlying sample collected from boring P2A-B4). The vertical extend of lead-impacted soil is not defined.
- Boring P2A-B5: Impacted soil (lube oil, lead and cPAHs) is present from 1 to 2 feet bgs in the area of boring P2A-B5. CPAH-impacted soil may be present from the ground surface to 3 feet bgs (the depth of the next underlying sample collected from boring P2A-B5). The vertical extent of lube oil- and lead-impacted soil is not defined.
- Boring P2A-B6: Impacted soil (diesel and lube oil) and contaminated soil (arsenic, lead, PCE and cPAHs) are present from the ground surface to at least 4 feet bgs in the area of boring P2A-B6.
- Boring P2A-B7: cPAH-contaminated soil and impacted soil (TCE, lube oil and lead) are present from 1 to 2 feet bgs in the area of boring P2A-B7. TCE-impacted and/or cPAH-contaminated soil may be present from the ground surface to 3 feet bgs (the depth of the next underlying sample collected from boring P2A-B7). The vertical extent of lube oil- and lead-impacted soil is not defined.
- Boring P2A-B8: cPAH-impacted soil is present from the ground surface to at least 3 feet bgs in the area of boring P2A-B8.
- **Boring P2A-B9:** Contaminated soil (cadmium, mercury and cPAHs) and impacted soil (lube oil and lead) are present from 1 to 2 feet bgs in the area of boring P2A-B9. Contaminated soil (cadmium, mercury and/or cPAHs) may be present from the ground surface to 3 feet bgs (the depth of the next underlying



sample collected from boring P2A-B9). The vertical extent of lube oil- and lead-impacted soil is not defined.

- Boring P2A-B10: cPAH-impacted soil is present from 1 to at least 2 feet bgs in the area of boring P2A-B10. The depth of the cPAH-impacted soil is not defined.
- **Boring P2A-HA1:** Contaminated soil (PCE, cPAHs and arsenic) and impacted soil (TCE, lube oil and lead) are present from the ground surface to at least 1 foot bgs in the area of boring P2A-HA1.

5.2. Groundwater Seeps

PCE and TCE were detected at concentrations less than the respective MTCA Method A groundwater cleanup levels in each of the three analyzed groundwater seep samples. The highest detected concentrations of PCE and TCE were identified in the sample collected from seep P2A-S1 located upgradient of the site. It appears that PCE and TCE in shallow groundwater may be migrating from a source upgradient of the site based on the results of the groundwater seep sampling.

Lube oil-range petroleum hydrocarbons were detected at a concentration greater than the MTCA Method A groundwater cleanup level and diesel-range petroleum hydrocarbons were detected at a concentration less than the MTCA Method A groundwater cleanup level in the groundwater seep sample P2A-S1 collected from upgradient of the site. The source of the petroleum hydrocarbons in the groundwater seeps is not known.

6.0 RECOMMENDATIONS

We understand the final design includes trails for pedestrians and bicycle use within the Phase 2A-2B area. We further understand that Ecology has indicated that PAHs- and metals-contaminated soil may be capped on the site if it is not disturbed based on the City's discussions with Mr. Marv Coleman with Ecology during the Phase 1A project. The specifics of the capping requirements has not been identified at this time but will likely be similar to the capping that is planned for the Phase 1A portion of the Prairie Line Trail. The capping consisted of:

- Hardscape (concrete, pavers, etc.)
- Geotextile overlain by 1 foot of clean soil

6.1. Soil Management

Soil excavated during construction activities will need to be managed in accordance with local, state and federal regulations. Additional exploration is recommended after the design is complete and the exact depths and locations of excavation are known to further delineate the areas of contaminated and impacted soil. Soil to be generated on the site will fall into the four categories:

- cPAH, metal or petroleum hydrocarbon-contaminated soil
- cPAH, metal or petroleum hydrocarbon-impacted soil
- PCE or TCE-impacted soil
- Non-impacted soil



6.1.1. CPAH, Metal or Petroleum Hydrocarbon-Contaminated Soil

Remediation of cPAH, metal or petroleum hydrocarbon-contaminated soil was not required on the Phase 1A project. Ecology did require the City of Tacoma to manage soil that was excavated and cap remaining contaminated soil. The soil excavated should be managed and disposed at a permitted Subtitle D landfill or treatment facility under state and federal regulations. We recommend that the City of Tacoma confirm with Ecology that the same methodology can be followed during the Phase 2A project.

Lead was also detected in nine of the soil samples at a concentration greater than 100 mg/kg. A concentration of 100 mg/kg is used by Subtitle D landfills as a screening level for when TCLP is required to be analyzed for disposal. The TCLP analysis differentiates between contaminated soil and dangerous waste. The soil samples were not analyzed for TCLP lead because we do not recommend analyzing discrete soil samples for TCLP lead because the soil may be characterized as dangerous waste. The City of Tacoma should consider either stockpiling the soil during construction or completing additional sampling once the design is completed.

6.1.2. CPAH, Metal or Petroleum Hydrocarbon-Impacted Soil

State and federal regulations generally do not require the impacted soil be disposed at a permitted Subtitle D landfill. However, low level petroleum hydrocarbons and cPAHs detected in the soil samples may be difficult to dispose at soil recycling facilities and other inert landfills because soil with petroleum and cPAHs is typically regulated under the facility permit conditions by the local regulatory agencies depending on the detected concentration of cPAHs. Petroleum- and cPAH-impacted soil that will be excavated during the construction activities will likely have to be disposed at a permitted Subtitle D landfill based on our experience.

Soil recycling facilities and other inert landfills in the area have various permit conditions regarding disposal of metal-impacted soil. However, there were not samples collected that were either not contaminated or impacted with other chemicals of concern.

6.1.3. Soil With PCE or TCE Detections

The source of the PCE and TCE detected in the soil is not known. PCE and TCE in the form of a spent solvent are considered an F-listed hazardous waste dangerous waste constituents. However, if the source of PCE and TCE is not known, the soil is technically not designated as a dangerous waste and typically may be disposed at an RCRA Subtitle D landfill under state and federal regulations. Ecology has indicated on previous projects that they should make a contained-in determination on all soil with PCE/TCE detections. The contained-in determination designates the soil as solid waste instead of dangerous waste based on the concentrations of PCE/TCE in the soil.

At the time of this report, a contained-in determination has not been obtained and if pursued may take up to two months to obtain. The City of Tacoma may choose to obtain a contained-in determination from Ecology prior to construction or allow the contractor to choose between disposing the PCE- and TCE-impacted soil at a facility that does not require a contained-in determination or be responsible for obtaining a contained-in determination from Ecology.



6.1.4. Non-Impacted Soil

Native soils or fill that does not appear to be visually stained are acceptable for disposal at a permitted soil recycling facility or inert waste landfill. Additional characterization of this material, including stockpile soil sampling and chemical analysis, may be required prior to disposal. The contractor shall be responsible for coordinating disposal with the City's preferred facility.

6.2. Groundwater Management

Groundwater seeps are present on the west side of the site. Groundwater within the seep are eventually conveyed to a drainage ditch on the site. It does not appear that the lube-oil range petroleum hydrocarbons have impacted the groundwater within the seeps or ditch present on the site. Low level PCE and TCE is present in the groundwater seeps, but at a concentrations less than the MTCA Method A Groundwater cleanup level. The City should consider the TCE and PCE concentrations when considering if the public should maintain access to the ditch and groundwater seeps. The City should also consider the groundwater impacted with TCE and PCE on the site specifically as it relates to conveyance off the site.

7.0 LIMITATIONS

GeoEngineers has performed this environmental subsurface investigation within the Phase 2A area of the proposed Prairie Line Trail in general accordance with our Services Agreement dated May 15, 2014 and generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

This Environmental Subsurface Investigation report has been prepared for use by BCRA, Inc. No one except BCRA, Inc. should rely on this report without a third party reliance letter because this environmental report is not intended for use by others.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices for subsurface investigation in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

Please refer to Appendix C titled "Report Limitations and Guidelines for Use" for additional information pertaining to use of this report.



TABLE 1

SUMMARY OF CHEMICAL ANALYTICAL RESULTS¹ - SOIL

PRAIRIE LINE TRAIL PHASE 2A SUBSURFACE INVESTIGATION - CITY OF TACOMA TACOMA, WASHINGTON

Boring Identification	P2/	A-B1	P2A	-B2		P2A-B3			P2A-B4		P2/	A-B 5		
Sample Identification ²	P2A-B1-0-1	P2A-B1-1-2	P2A-B2-1-2	P2A-B2-3-4	P2A-B3-1-2	P2A-B3-2-3	P2A-B3-3-4	P2A-B4-0-1	P2A-B4-1-2	P2A-B4-3-4	P2A-B5-1-2	P2A-B5-3-4	MTCA Method A ULU Cleanup Level (mg/kg)	Impacted Soil Criteria (mg/kg)
Sample Depth (feet bgs)	0 to 1	1 to 2	1 to 2	3 to 4	1 to 2	2 to 3	3 to 4	0 to1	1 to 2	3 to 4	1 to 2	3 to 4		, 2 2
NWTPH-HCID ³ (mg/kg)						I		I	l		I	l		
Gasoline-Range Petroleum Hydrocarbons	23 U	25 U	25 U		23		30 U	30 U	23 U	-	30 U	-	30/100 ¹⁰	30 ¹⁵
Diesel-Range Petroleum Hydrocarbons	59 U	62 U	62 U		58		75 U	55	58 U		59 U		2,000	200 ¹⁵
Lube Oil-Range Petroleum Hydrocarbons	120	130 U	120	-	120	-	150	110	120 U	-	120		2,000	200 ¹⁵
NWTPH-Gx ⁴ (mg/kg)														
Gasoline-Range Petroleum Hydrocarbons	-			-	6.2 U					-		_	30/100 ¹⁰	30 ¹⁵
NWTPH-Dx ⁵ (mg/kg)														
Diesel-Range Petroleum Hydrocarbons	190		220		310	120	93	310			100		2,000	200 ¹⁵
Lube Oil-Range Petroleum Hydrocarbons	1,600	<u> </u>	690		2,100	880	360	1,800	<u></u>		220	<u> </u>	2,000	200 ¹⁵
Metals ⁶ (mg/kg)								'- 						
Arsenic	15	12 U	12 U		70	_	46	11 U	12 U	-	12 U		20	7 ¹⁶
Barium	140	140	230		270		410	82	140		200		16,000 ¹¹	NE
Cadmium	0.66	0.62 U	0.62 U	-	0.67		4.6	0.55 U	0.58 U	-	0.59 U	-	2.0	1 ¹⁶
Chromium	24	51	21	-	28		32	29	19	-	17	-	2,000 ¹³	NE
Lead	140	6.2 U	410	5.9 U	260		580	88	57		72	-	250	50 ¹⁵
Mercury	0.29 U	0.31 U	0.31 U		0.29		1.7	0.94	2.6	0.32 U	0.29 U		2.0	0.07 Or DET ¹⁶
Selenium	12 U	12 U	12 U	-	12 U		15 U	11 U	12 U	-	12 U	-	400 ¹²	NE
Silver	1.2 U	1.2 U	1.2 U	-	1.2 U		1.5 U	1.1 U	1.2 U	ı	1.2 U		400 ¹²	NE
/OCs ⁷ (mg/kg)														
Tetrachloroethene (PCE)	0.015 U ¹⁴	0.00081 U	0.00075 U	0.00074 U	0.018 U ¹⁴	0.018 U ¹⁴	0.020 U ¹⁴	0.00069 U	0.00083 U		0.017 U ¹⁴	0.00072 U	0.05	
Trichloroethene (TCE)	0.00081 U	0.00081 U	0.00075 U	0.00074 U	0.0013 U	0.00091 U	0.0013 U	0.00069 U	0.00083 U		0.0011 U	0.00072 U	0.03	
cis-1,2-DCE	0.00081 U	0.00081 U	0.00075 U	0.00074 U	0.0013 U	0.0011	0.0037	0.00069 U	0.00083 U	1	0.0011 U	0.00072 U	160 ¹²	DET ¹⁷
Trans-1,2-DCE	0.00081 U	0.00081 U	0.00075 U	0.00074 U	0.0013 U	0.00091 U	0.0013 U	0.00069 U	0.00083 U	-	0.0011 U	0.00072 U	1,600 ¹²	DET
1,1-DCE	0.00081 U	0.00081 U	0.00075 U	0.00074 U	0.0013 U	0.00091 U	0.0013 U	0.00069 U	0.00083 U	-	0.0011 U	0.00072 U	4,000 ¹²	
Vinyl Chloride	0.00081 U	0.00081 U	0.00075 U	0.00074 U	0.0013 U	0.00091 U	0.0019	0.00069 U	0.00083 U	-	0.0011 U	0.00072 U	0.67 ¹²	
Benzene	0.00081 U	0.00081 U	0.00075 U	-	0.0013 U		0.0013 U	0.00069 U	0.00083 U	-	0.0011 U	-	0.03	0.03 ¹⁵
Toluene	0.0040 U	0.0041 U	0.0037 U	-	0.0066 U		0.0064 U	0.0035 U	0.0042 U	-	0.0055 U		7	7 ¹⁵
Ethylbenzene	0.052 U	0.00081 U	0.00075 U		0.063 U		0.096 U	0.00096	0.00083 U	-	0.060 U		6	6 ¹⁵
Xylenes ⁹	0.10 U	0.0016 U	0.0015 U		0.13 U	-	0.19 U	0.0046	0.0017 U	-	0.12 U	-	9	9 ¹⁵
2-Butanone (MEK) ¹⁰	0.010	0.022	0.0037 U		0.0066 U		0.021	0.0066	0.0042 U		0.0055 U		48,000 ¹²	NE
Acetone ¹⁰	0.065	0.14	0.0091		0.025		0.096	0.036	0.0042 U	-	0.0055 U		72,000 ¹²	NE
Carbon Disulfide ¹⁰	0.00091	0.0010	0.00075 U	-	0.0013 U		0.0015	0.00069 U	0.00083 U	-	0.0011 U	-	8,000 ¹²	NE
Naphthalene	0.052 U	0.051 U	0.00075 U		0.063 U		0.096 U	0.00069 U	0.00083 U		0.060 U	-	5	5 ¹⁵



Boring Identification	P2/	4-B1	P2A	-B2		P2A-B3			P2A-B4		P2/	A-B5		
Sample Identification ²	P2A-B1-0-1	P2A-B1-1-2	P2A-B2-1-2	P2A-B2-3-4	P2A-B3-1-2	P2A-B3-2-3	P2A-B3-3-4	P2A-B4-0-1	P2A-B4-1-2	P2A-B4-3-4	P2A-B5-1-2	P2A-B5-3-4	MTCA Method A ULU Cleanup Level (mg/kg)	Impacted Soil Criteria (mg/kg)
Sample Depth (feet bgs)	0 to 1	1 to 2	1 to 2	3 to 4	1 to 2	2 to 3	3 to 4	0 to1	1 to 2	3 to 4	1 to 2	3 to 4		(
PAHs/SVOCs ⁸ (mg/kg)			ı				ı					<u> </u>	<u> </u>	
Bis(2-Ethylhexyl) Phthalate	_			-	-		-	-		-	-		71.4 ¹²	NE
Dibutyl Phthalate				-						-		-	8,000 ¹²	NE
Naphthalene	0.11	0.0083 U	0.35	0.0079 U	0.22		0.37	-	0.46	0.0084 U	0.22	0.0080 U	5	
1-Methylnaphthalene	0.13	0.0083 U	0.26	0.0079 U	0.17		0.20	-	0.72	0.0084 U	0.34	0.0080 U	35 ¹²	
2-Methylnaphthalene	0.13	0.0083 U	0.31	0.0079 U	0.23		0.26		0.73	0.0084 U	0.36	0.0080 U	320 ¹²	
Acenaphthene	0.016 U	0.0083 U	0.029	0.0079 U	0.043		0.072		1.1	0.0084 U	0.021	0.0080 U	4,800 ¹²	
Acenaphthylene	0.029	0.0083 U	0.18	0.0079 U	0.079		0.077		0.19	0.0084 U	0.030	0.0080 U	NE	
Anthracene	0.040	0.0083 U	0.20	0.0079 U	0.13		0.12		1.7	0.0084 U	0.028	0.0080 U	24,000 ¹²	DET ¹⁸
Benzo(ghi)perylene	0.067	0.0083 U	0.16	0.0079 U	0.13		0.18		0.59	0.0084 U	0.051	0.0080 U	NE	
Fluoranthene	0.10	0.0083 U	0.34	0.0079 U	0.34		0.47		2.8	0.0084 U	0.15	0.0080 U	3,200 ¹²	
Fluorene	0.020	0.0083 U	0.041	0.0079 U	0.042		0.066		0.81	0.0084 U	0.037	0.0080 U	3,200 ¹²	
Phenanthrene	0.19	0.0083 U	0.47	0.0079 U	0.44		0.72		5.7	0.0084 U	0.40	0.0080 U	NE	
Pyrene	0.11	0.0083 U	0.31	0.0079 U	0.35		0.51		3.6	0.0084 U	0.15	0.0080 U	2,400 ¹²	
cPAHs ⁸ (mg/kg)														
Benzo (a) anthracene (TEF 0.1)	0.078	0.0083 U	0.23	0.0079 U	0.19	-	0.23	-	2.0	0.0084 U	0.085	0.0080 U		
Benzo (a) pyrene (TEF 1)	0.068	0.0083 U	0.16	0.0079 U	0.15		0.23		1.5	0.0084 U	0.065	0.0080 U	1	
Benzo (b) fluoranthene (TEF 0.1)	0.11	0.0083 U	0.37	0.0079 U	0.28		0.32		1.6	0.0084 U	0.11	0.0080 U	The TTEC	
Benzo (J,k) fluoranthene (TEF 0.1)	0.039 U	0.0083 U	0.077	0.0079 U	0.068		0.075		0.60	0.0084 U	0.022	0.0080 U	concentration is 0.1	DET ¹⁸
Chrysene (TEF 0.01)	0.11	0.0083 U	0.28	0.0079 U	0.26		0.29	-	2.0	0.0084 U	0.13	0.0080 U	mg/kg	DEI
Dibenz (a,h) anthracene (TEF 0.1)	0.039 U	0.0083 U	0.041 U	0.0079 U	0.038 U		0.041		0.15	0.0084 U	0.010	0.0080 U]	
Indeno (1,2,3-cd) pyrene (TEF 0.1)	0.056	0.0083 U	0.15	0.0079 U	0.14		0.19		0.71	0.0084 U	0.058	0.0080 U]	
Total cPAH TTEC	0.09		0.25		0.22		0.32		2.0		0.09	_	0.1	



Boring Identification		P2A-B6		P2/	4- B7	P2.	A-B8	P2A-E	39-1-2	P2A-B10	P2A-HA1		
Sample Identification ²	P2A-B6-0-1	P2A-B6-2-3	P2A-B6-3-4	P2A-B7-1-2	P2A-B7-3-4	P2A-B8-0-1	P2A-B8-2-3	P2A-B9-1-2	P2A-B9-3-4	P2A-B10-1-2	P2A-HA1-0-1	MTCA Method A ULU Cleanup Level (mg/kg)	Impacted Soil Criteria (mg/kg)
Sample Depth (feet bgs)	0 to 1	2 to 3	3 to 4	1 to 2	3 to 4	0 to 1	2 to 3	1 to 2	3 to 4	1 to 2	0 to 1		(3 3
IWTPH-HCID ³ (mg/kg)				1	I	l	1				I		
Gasoline-Range Petroleum Hydrocarbons	22	22		23 U		21 U	22 U	25 U	-	23 U	32 U	30/100 ¹⁰	30 ¹⁵
Diesel-Range Petroleum Hydrocarbons	55	56	-	56		52 U	55 U	62 U		59 U	80 U	2,000	200 ¹⁵
Lube Oil-Range Petroleum Hydrocarbons	110	110		110		100	110 U	120		120 U	160	2,000	200 ¹⁵
IWTPH-Gx ⁴ (mg/kg)													
Gasoline-Range Petroleum Hydrocarbons	5.6 U	5.4 U		-	-	-			-			30/100 ¹⁰	30 ¹⁵
WTPH-Dx ⁵ (mg/kg)													
Diesel-Range Petroleum Hydrocarbons	360	160	-	140	-	56	-	190	-		82	2,000	200 ¹⁵
Lube Oil-Range Petroleum Hydrocarbons	1,300	380		510		150	-	350			310	2,000	200 ¹⁵
/letals ⁶ (mg/kg)		·				•	•						
Arsenic	74	37	36	14		10 U	11 U	12 U	-	12 U	190	20	7 ¹⁶
Barium	420	200	-	230		68	98	280	-	110	250	16,000 ¹¹	NE
Cadmium	1.7	0.67	-	0.56 U		0.52 U	0.55 U	2.6	0.60 U	0.59 U	0.80 U	2.0	1 ¹⁶
Chromium	28	28	_	24	-	25	18	17	-	37	25	2,000 ¹³	NE
Lead	520	270	420	120		45	28	81		24	170	250	50 ¹⁵
Mercury	0.60	0.28 U	-	0.28 U		0.26 U	0.27 U	6.3	0.30 U	0.29 U	0.40 U	2.0	0.07 Or DET ¹⁶
Selenium	11 U	11 U		11 U		10 U	11 U	12 U	-	12 U	16 U	400 ¹²	NE
Silver	1.1 U	1.1 U	-	1.1 U		1.0 U	1.1 U	1.2 U		1.2 U	1.6 U	400 ¹²	NE
/OCs ⁷ (mg/kg)													
Tetrachloroethene (PCE)	0.0016	0.0023	0.051 J	0.043 U	0.00063 U	-		0.017 U ¹⁴	-	0.00069 U	0.060 J	0.05	
Trichloroethene (TCE)	0.0015 U	0.00095 U	0.0011 U	0.013	0.00063 U	-		0.00092 U	-	0.00069 U	0.0092	0.03	
cis-1,2-DCE	0.0015 U	0.00095 U	0.0011 U	0.00091 U	0.00063 U		-	0.00092 U	-	0.00069 U	0.0014 U	160 ¹²	p ==17
Trans-1,2-DCE	0.0015 U	0.00095 U	0.0011 U	0.00091 U	0.00063 U	-		0.00092 U	-	0.00069 U	0.0014 U	1,600 ¹²	DET ¹⁷
1,1-DCE	0.0015 U	0.00095 U	0.0011 U	0.00091 U	0.00063 U		-	0.00092 U		0.00069 U	0.0014 U	4,000 ¹²	
Vinyl Chloride	0.0015 U	0.00095 U	0.0011 U	0.00091 U	0.00063 U		-	0.00092 U	-	0.00069 U	0.0014 U	0.67 ¹²	
Benzene	0.0015 U	0.00095 U	-	0.00091 U	-			0.00092 U	_	0.00069 U	0.0014 U	0.03	0.03 ¹⁵
Toluene	0.0073 U	0.0048 U		0.0046 U				0.0046 U	-	0.0034 U	0.0070 U	7	7 ¹⁵
Ethylbenzene	0.0015 U	0.00095 U	=	0.043 U			-	0.058 U	=	0.00069 U	0.096 U	6	6 ¹⁵
Xylenes ⁹	0.0029 U	0.0019 U	-	0.087 U			-	0.12 U	-	0.0014 U	0.19 U	9	9 ¹⁵
2-Butanone (MEK) ¹⁰	0.015	0.0048 U	-	0.0046 U	-		-	0.0046 U	-	0.0034 U	0.0070 U	48,000 ¹²	NE
Acetone ¹⁰	1.3	0.16		0.0046 U				0.017		0.0034 U	0.025	72,000 ¹²	NE
Carbon Disulfide ¹⁰	0.0015 U	0.00095 U	-	0.00091 U			-	0.00092 U	_	0.00069 U	0.0014 U	8,000 ¹²	NE
Naphthalene	0.096	0.058 U		0.043 U				0.058 U	-	0.00069 U	0.096 U	5	5 ¹⁵



Boring Identification		P2A-B6		P2.	A-B7	P2	A-B8	P2A-I	B9-1-2	P2A-B10	P2A-HA1		
Sample Identification ²	P2A-B6-0-1	P2A-B6-2-3	P2A-B6-3-4	P2A-B7-1-2	P2A-B7-3-4	P2A-B8-0-1	P2A-B8-2-3	P2A-B9-1-2	P2A-B9-3-4	P2A-B10-1-2	P2A-HA1-0-1	MTCA Method A ULU Cleanup Level (mg/kg)	Impacted Soil Criteria (mg/kg)
Sample Depth (feet bgs)	0 to 1	2 to 3	3 to 4	1 to 2	3 to 4	0 to 1	2 to 3	1 to 2	3 to 4	1 to 2	0 to 1		
PAHs/SVOCs ⁸ (mg/kg)													
Bis(2-Ethylhexyl) Phthalate	-	-				0.051	0.036 U				-	71.4 ¹²	NE
Dibutyl Phthalate		-			-	0.035 U	0.041		-		-	8000 ¹²	NE
Naphthalene	0.85	0.24	0.73	0.49	0.0085 U	0.020	0.079	0.45	0.0081 U	0.033	0.25	5	
1-Methylnaphthalene	0.59	0.30	1.4	0.37	0.0085 U	0.014	0.097	0.58	0.0081 U	0.058	0.29	35 ¹²	
2-Methylnaphthalene	0.90	0.32	1.1	0.52	0.0085 U	0.022	0.10	0.65	0.0081 U	0.063	0.34	320 ¹²	
Acenaphthene	0.029	0.11	0.15	0.051	0.0085 U	0.0069 U	0.0073 U	0.031	0.0081 U	0.0078 U	0.17	4,800 ¹²	
Acenaphthylene	0.051	0.11	0.21	0.31	0.0085 U	0.017	0.029	0.079	0.0081 U	0.0078 U	0.21	NE	
Anthracene	0.093	0.30	0.61	0.47	0.0085 U	0.023	0.031	0.075	0.0081 U	0.0078 U	0.46	24,000 ¹²	DET ¹⁸
Benzo(ghi)perylene	0.055	0.33	0.59	0.19	0.0085 U	0.019	0.028	0.096	0.0081 U	0.0078 U	0.64	NE	
Fluoranthene	0.19	0.92	2.0	0.45	0.0085 U	0.022	0.054	0.22	0.0081 U	0.0092	1.6	3,200 ¹²	
Fluorene	0.045	0.13	0.19	0.065	0.0085 U	0.0069 U	0.0088	0.073	0.0081 U	0.0078 U	0.18	3,200 ¹²	
Phenanthrene	0.39	1.2	3.0	0.58	0.0085 U	0.026	0.089	0.45	0.0081 U	0.077	2.0	NE	
Pyrene	0.16	1.0	3.0	0.35	0.0085 U	0.021	0.053	0.21	0.0081 U	0.012	2.0	2,400 ¹²	
cPAHs ⁸ (mg/kg)													
Benzo (a) anthracene (TEF 0.1)	0.099	0.60	1.1	0.27	0.0085 U	0.013	0.039	0.14	0.0081 U	0.012	1.0		
Benzo (a) pyrene (TEF 1)	0.069	0.56	0.82	0.17	0.0085 U	0.013	0.031	0.097	0.0081 U	0.0078 U	0.97		
Benzo (b) fluoranthene (TEF 0.1)	0.14	0.62	1.0	0.38	0.0085 U	0.035	0.050	0.21	0.0081 U	0.012	1.2	The TTEC	
Benzo (J,k) fluoranthene (TEF 0.1)	0.028	0.17	0.36	0.067	0.0085 U	0.0069 U	0.013	0.034	0.0081 U	0.0078 U	0.34	concentration is 0.1 mg/kg DET ¹⁸	DET ¹⁸
Chrysene (TEF 0.01)	0.13	0.65	1.5	0.31	0.0085 U	0.021	0.041	0.18	0.0081 U	0.021	1.1		DET
Dibenz (a,h) anthracene (TEF 0.1)	0.010	0.091	0.20	0.037	0.0085 U	0.0069 U	0.0093	0.016	0.0081 U	0.0078 U	0.16		
Indeno (1,2,3-cd) pyrene (TEF 0.1)	0.060	0.36	0.63	0.27	0.0085 U	0.020	0.031	0.11	0.0081 U	0.0078 U	0.67		
Total cPAH TTEC	0.1	0.75	1.2 J	0.28	-	0.02	0.046	0.15	-	0.002	1.3	0.1	



Notes:

¹ Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.

² Sample ID = Project identifier - boring number - starting depth of sample [feet bgs] -end depth [feet bgs], boring 1 collected 0-1 feet bgs = P2A-B1-0-1.

³ Washington State Department of Ecology (Ecology)-approved method NWTPH-HCID.

⁴ Ecology-approved method NWTPH-Gx.

 $^{\rm 5}$ Ecology-approved method NWTPH-Dx.

⁶ Resource Conservation Recovery Act (RCRA) metals analyzed by U.S. Environmental Protection Agency (EPA) 6000/7000 series method.

⁷ Volatile organic compounds (VOCs) analyzed by EPA method 8260B/8260C. Other VOCs were analyzed but not detected.

⁸ Polycyclic aromatic hydrocarbons (PAHs) analyzed by EPA method 8270D/SIM. Two samples analyzed for SVOCs by method EPA method 8270D/SIM.

⁹ Total xylenes consists of m,p- and o- xylenes. The higher detection limit is shown.

 $^{\rm 10}$ 2-Butanone, Acetone and Carbon Disulfide are common laboratory contaminants.

¹¹ Model Toxics Control Act (MTCA) Method A cleanup level for gasoline is 30 mg/kg if benzene is detected or if the sum of toluene, ethylbenzene and xylenes are equal to or greater than 1% of the total gasoline detection.

 12 MTCA Method B criteria represented because MTCA Method A cleanup level has not been established.

 $^{13}\,\mathrm{MTCA}$ Method A cleanup level for Trivalent Chromium.

 $^{\rm 14}\,\rm Method$ Detection Limit (MDL) shown due to matrix effects in analyzed sample.

¹⁵ Petroleum-impacted soil is defined as the chemical of concern detected at a concentration less than the MTCA Method A ULU cleanup level but greater than the petroleum reuse criteria (Guidance for Remediation of Petroleum Contaminated Sites [Publication 10-09-057] Ecology, October 2011).

¹⁶ Metal-impacted soil is defined as arsenic, cadmium and mercury detected at concentrations greater than the respective Puget Sound Background levels but less than the respective MTCA Method A cleanup levels or MTCA Method B criteria (Summary Natural Background Soil Metals Concentrations in Washington State [Publication 94-115] dated October 1994).

¹⁷ PCE or TCE impacted soil is defined as PCE or TCE detected at a concentration less than the MTCA Method A ULU cleanup level (Hazardous Waste Regulations 40 CFR part 260).

18 CPAH or PAH impacted soil is defined as cPAHs or PAH detected at a concentration less than the MTCA Method A ULU cleanup level but are detected at a concentration greater than the laboratory reporting limit. CPAH or PAH impacted soil will have to be disposed at a RCRA Subtitle D landfill based on our experience.

mg/kg = milligram per kilogram

bgs = below ground surface

DET = Detected

U = Analyte was not detected at or greater than the listed reporting limit

NE = Not Established

-- = sample not analyzed

J = Detected value is less than the method reporting limit (MRL) because the MRL was elevated due to matrix interference. Estimated result by the analytical laboratory.

TEF = Toxicity Equivalency Factor as defined in WAC 173-340-900 Table 708-2

Total Toxic Equivalent Concentration (TTEC) is the sum of each individual cPAH concentration multiplied by its corresponding TEF.

Bold type indicates analyte was detected at a concentration greater than the laboratory detection limit.

Bold type with shading indicates analyte was detected at a concentration greater than the respective MTCA Method A ULU cleanup level or Method B Criteria.

Bold font type, bold dashed outline indicates that the detected concentration is greater than the noted impacted soil criteria.



TABLE 2

SUMMARY OF CHEMICAL ANALYTICAL RESULTS¹ - GROUNDWATER SEEPS PRAIRIE LINE TRAIL PHASE 2A SUBSURFACE INVESTIGATION - CITY OF TACOMA TACOMA, WASHINGTON

Seep Location	P2A-S1	P2A-S2	P2A-S3		
Sample Identification ²	P2A-S1-150707	P2A-S2-150707	P2A-S3-150707	MTCA Method A Groundwater Cleanup	
Sample Date	7/7/2015	7/7/2015	7/7/2015	Level (µg/L)	
NWTPH-Gx ³ (μg/L)					
Gasoline-Range Petroleum Hydrocarbons	400 U	100 U	100 U	800/1,000 ⁹	
NWTPH-Dx ⁴ (μg/L)					
Diesel-Range Petroleum Hydrocarbons	430	260 U	260 U	500	
Lube Oil-Range Petroleum Hydrocarbons	870	410 U	410 U	500	
Dissolved Metals ⁵ (μg/L)					
Arsenic	3.0 U	3.0 U	3.0 U	5	
Barium	25 U	25 U	25 U	3,200 ¹⁰	
Cadmium	4.0 U	4.0 U	4.0 U	5	
Chromium	10 U	10 U	10 U	50	
Lead	1.0 U	1.0 U	1.0 U	15	
Mercury	0.50 U	0.50 U	0.50 U	2	
Selenium	5.0 U	5.0 U	5.0 U	80 ¹⁰	
Silver	10 U	10 U	10 U	80 ¹⁰	
VOCs ⁶ (µg/L)					
Tetrachloroethene	0.66	0.59	0.38	5	
Trichloroethene	1.5	1.4	0.76	5	
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	16 ¹⁰	
Trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	160 ¹⁰	
1,1-Dichloroethene	0.20 U	0.20 U	0.20 U	400 ¹⁰	
Vinyl Chloride	0.20 U	0.20 U	0.20 U	0.2	
Benzene	0.20 U	0.20 U	0.20 U	5	
Toluene	1.0 U	1.0 U	1.0 U	1,000	
Ethylbenzene	0.20 U	0.20 U	0.20 U	700	
Xylenes ⁷	0.40 U	0.40 U	0.40 U	1,000	
Acetone ⁸	5.0	5.0 U	5.0 U	7,200 ¹⁰	
Chloroform ⁸	0.20	0.21	0.20 U	1.41 ¹⁰	



Notes:

µg/L = microgram per literVOCs = Volatile organic compoundsMTCA = Model Toxics Control ActPAHs = Polycyclic aromatic hydrocarbons

U = Analyte was not detected at or greater than the listed reporting limit

Bold type indicates analyte was detected at a concentration greater than the laboratory detection limit.

Bold type with shading indicates analyte was detected at a concentration greater than the respective MTCA Method A cleanup level or Method B Criteria.



¹Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.

² Sample ID = Project identifier - seep number - sample date, seep 1 collected on July 7, 2015 = P2A-S1-150707.

³ Washington State Department of Ecology (Ecology)-approved method NWTPH-Gx.

⁴ Ecology-approved method NWTPH-Dx.

⁵ Resource Conservation Recovery Act (RCRA) metals analyzed by U.S. Environmental Protection Agency (EPA) 6000/7000 series method.

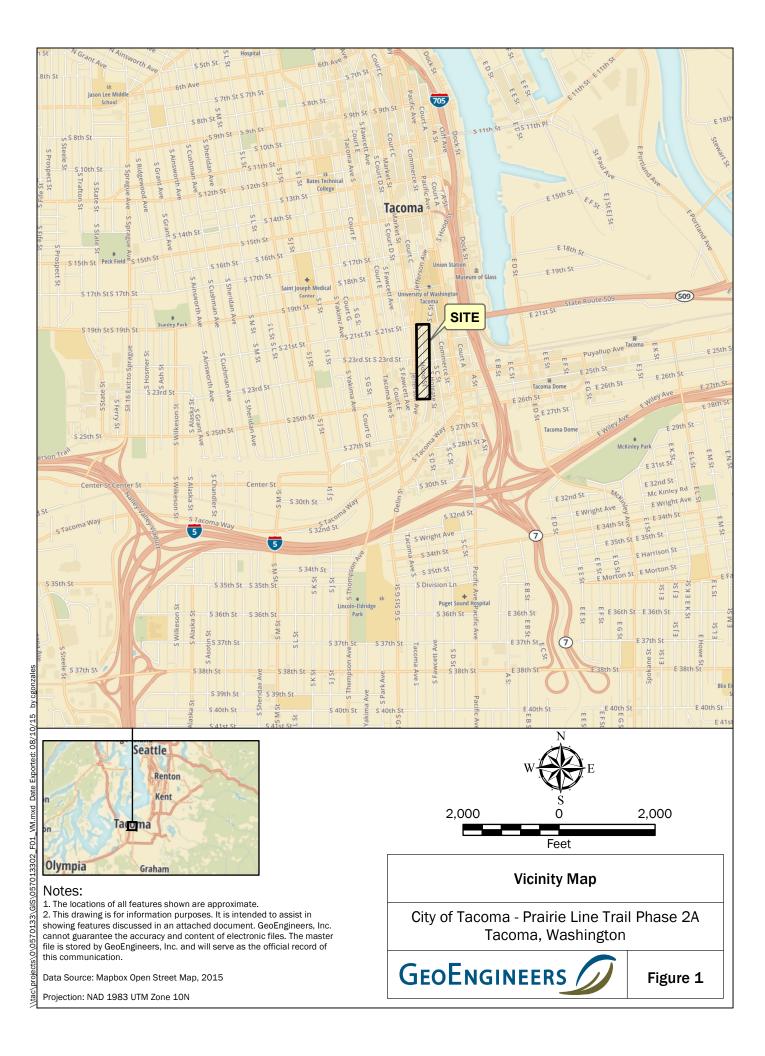
⁶ Volatile organic compounds (VOCs) analyzed by EPA method 8260C. Other VOCs were analyzed but not detected.

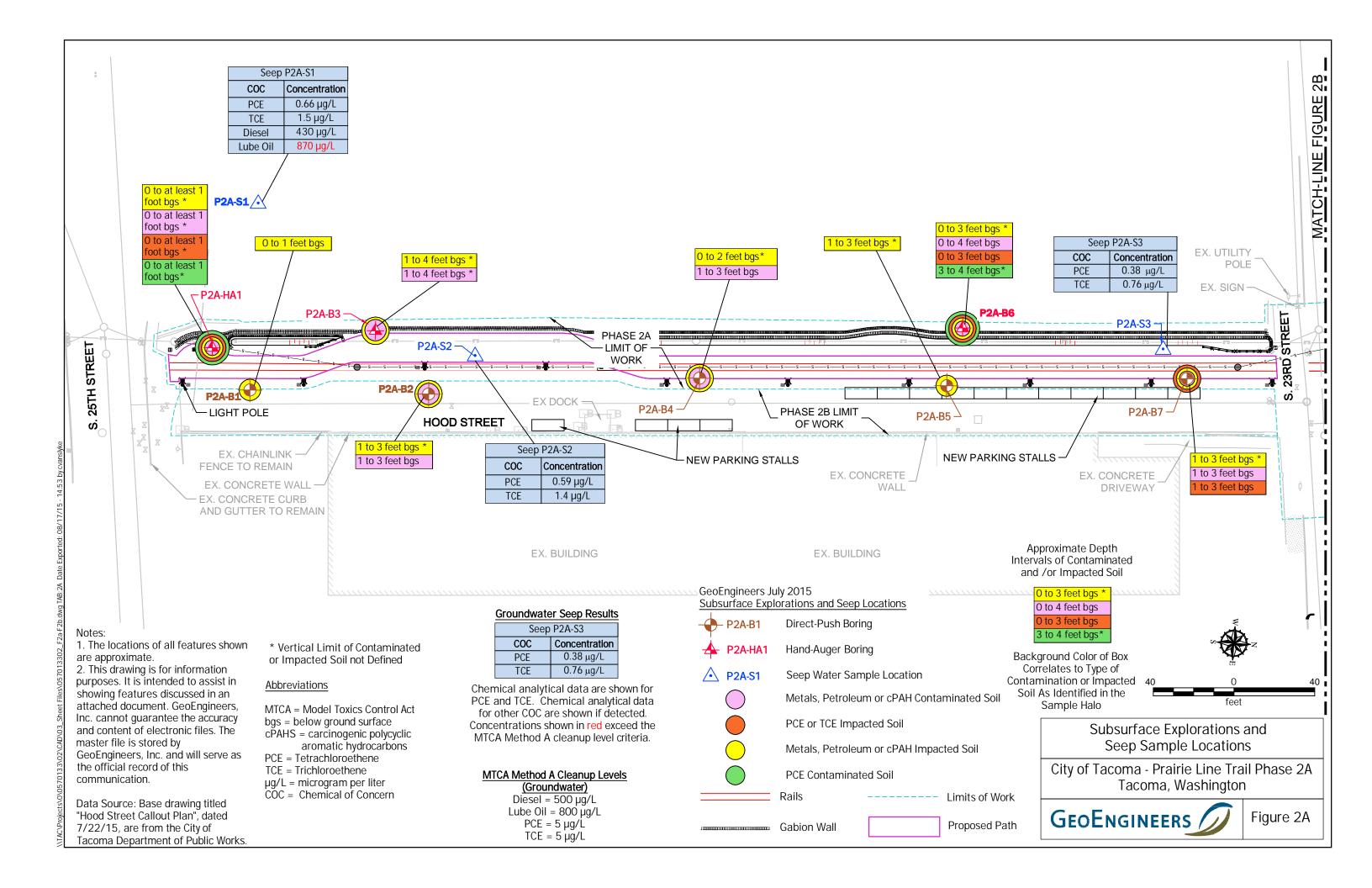
 $^{^{7}}$ Total xylenes consists of m,p- and o- xylenes. The higher detection limit is shown.

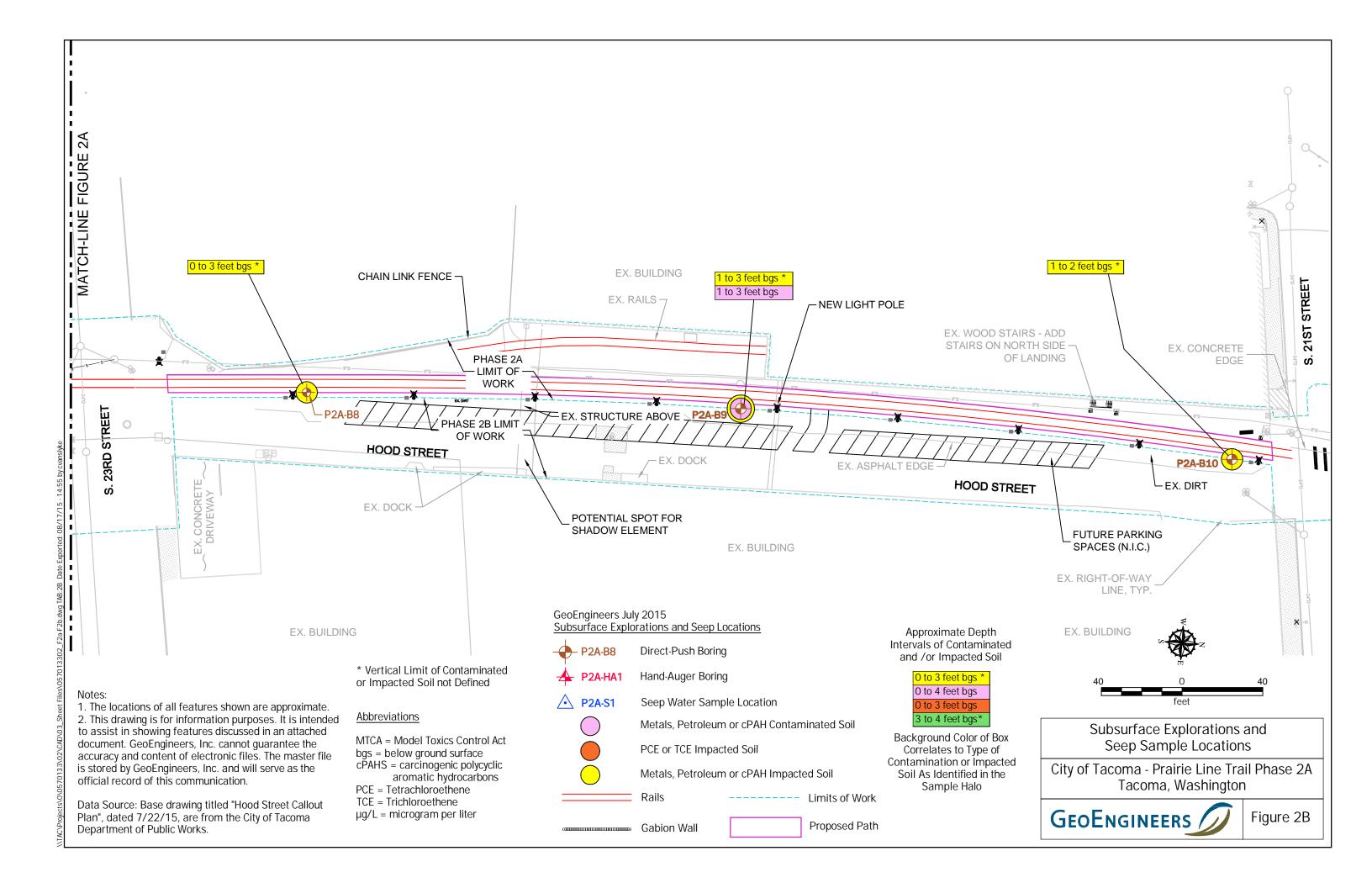
⁸ Acetone and Chloroform are common laboratory contaminants.

⁹ Model Toxics Control Act (MTCA) Method A cleanup level for gasoline is 800 μg/L if benzene is detected or if the sum of toluene, ethylbenzene and xylenes are equal to or greater than 1% of the total gasoline.

¹⁰ MTCA Method B groundwater criteria represented because MTCA Method A groundwater cleanup level has not been established.







APPENDIX AField Exploration Program

APPENDIX A FIELD EXPLORATION PROGRAM

General

Subsurface conditions were explored by completing eleven soil borings and collecting three groundwater seep samples at the site to evaluate the potential presence of petroleum hydrocarbons, metals, VOCs, and SVOCs in soil on July 7 and 8, 2015.

A representative of GeoEngineers selected the locations for borings, observed and classified the soils encountered and prepared a detailed log of each boring. The soils were classified according to the system described in Figure A-1. The boring logs are presented in Figures A-2 through A-12.

Soil Sampling

General

Soil samples obtained from the borings were visually classified in general accordance with ASTM International (ASTM) D 2488. The samples were evaluated for the potential presence of contamination using field screening techniques that include visual, olfactory, water sheen tests and photoionization (PID) measurements. Observations of soil and groundwater conditions, if encountered, and soil field screening results for each exploration are included in each boring log.

Samples collected were representative of contaminated or potentially materials and/or different types of materials at each boring. Selected soil samples were collected in glass jars (supplied by the analytical laboratory), labeled and stored in an ice-chest pending delivery to the laboratory. GeoEngineers' personnel used the recommended method 5035A sampling protocols to collect soil samples. All sampling and mixing equipment was decontaminated between samples using an Alconox soap wash and distilled water rinse. The soil cuttings and decon water were stored in drums on site.

Hand Augers

Three hand-auger explorations were completed using a manually operated sampling auger. The auger core is approximately 2.5 inches in diameter and 6 inches long and is extended into the ground using a series of 3-foot rods. The auger was advanced into the soil by hand. A representative from our staff selected the exploration locations and observed and classified the soil encountered. Soil in the explorations was visually classified in general accordance with ASTM D 2488-94.

The sampling equipment was decontaminated before each sampling attempt with an Alconox® wash solution and a distilled water rinse. Soil samples were obtained from continuous cores for field screening and possible chemical analysis.

Soil samples obtained from the hand-auger were collected from the sampler with a stainless steel knife, a stainless steel trowel and/or new gloves. A portion of each sample was placed in laboratory-prepared sample jars for possible chemical analysis. The remaining portion of each sample was used for field screening.

Selected samples from the explorations were submitted for chemical analysis based on field screening results.



Direct-Push Borings

Drilling activities were monitored continuously by a representative from GeoEngineers who observed and classified the soil encountered and prepared a detailed boring log. Soil samples were collected from borings advanced using direct push drilling equipment. Soil samples were obtained from the borings using a 4-foot-long by 2-inch-inside-diameter sampler at the end of the drilling rods. The core sampler was driven using the weight of the drill rig. Soil cuttings from the borings were placed in a labeled 16-gallon drum.

Field Screening Methods

Our representative conducted field screening on each of the soil samples obtained from the borings. Field screening results can be used as a general guideline to delineate areas of potential petroleum-related contamination in soils. In addition, screening results are often used as a basis for selecting soil samples for chemical analysis. The screening methods employed included: 1) visual examination, 2) screening for organic vapors and 3) water sheen testing.

Visual screening consists of observing the soil for stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavy petroleum hydrocarbons such as motor oil, or when hydrocarbon concentrations are high. Sheen screening and headspace screening are more sensitive screening methods that can be effective in detecting petroleum-based products in concentrations lower than regulatory cleanup guidelines.

Headspace vapor testing for combustible gases consisted of using a Mini RAE 3000 photoionization detector (PID). Headspace vapor screening involves placing a soil sample in a plastic bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of the Mini RAE 3000 PID is inserted into the bag and the Mini RAE 3000 PID measures the concentration of organic vapors in the sample bag headspace. The Mini RAE 3000 PID is calibrated to isobutylene and is designed to quantify organic vapor concentrations up to 1,000 ppm (parts per million). The lower threshold of significance of the Mini RAE 3000 PID in this application is 10 ppm; however, values of zero were recorded by the instrument.

Water sheen testing involves placing soil in pan of distilled water and observing the water surface for signs of sheen. The results of water sheen testing on soil samples from the borings are presented on the boring logs. Sheens are classified as follows:

Slight Sheen (SS)

Light colorless film, spotty to globular; spread is irregular, not rapid; areas of no sheen remain; film dissipates rapidly.

No visible sheen on water surface.

Moderate Sheen (MS) Light to heavy film, may have some color or iridescence, globular

to stringy, spread is irregular to flowing; few remaining areas of no $\,$

sheen on water surface.

Heavy Sheen (HS) Heavy colorful film with iridescence; stringy, spread is rapid; sheen

flows off the sample; most of water surface may be covered with

sheen.



No Sheen (NS)

Groundwater Seep Sampling

Three groundwater seep samples were be collected at the site on July 7^{th} , 2015. These seeps were sampled directly from discharge pipes or within the adjacent ditch. Samples were collected following 1 day of dry weather to prevent comingling with stormwater runoff.

Prior to water sample collection, one set of field parameters was collected using a multi-parameter water quality meter (Horiba U-22 or equivalent). The meter was submerged in the water until parameters reached stabilization. Parameters measured included: electrical conductivity, dissolved oxygen, pH, salinity, total dissolved solids, turbidity, oxidation-reduction potential and temperature. These field measurements were documented on the field log.

Samples were collected using a polyethylene dipper and poured directly into sample bottles provided by the analytical laboratory. Samples were be placed directly into a cooler with ice and logged on the chain-of-custody.



SOIL CLASSIFICATION CHART

M	AJOR DIVISI	ONS	SYMI	BOLS	TYPICAL		
IVI	AJON DIVISI	ONS	GRAPH	LETTER	DESCRIPTIONS		
	GRAVEL	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES		
	AND GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES		
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE FRACTION	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES		
00.20	RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES		
MORE THAN 50%	SAND	CLEAN SANDS		sw	WELL-GRADED SANDS, GRAVELLY SANDS		
RETAINED ON NO. 200 SIEVE	AND SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND		
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES		
	PASSING NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MIXTURES		
				ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY		
FINE GRAINED	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS		
SOILS				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
MORE THAN 50% PASSING NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS		
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY		
			Hyhi	ОН	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY		
HI	GHLY ORGANIC S	SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS		

ADDITIONAL MATERIAL SYMBOLS

SYMI	BOLS	TYPICAL					
GRAPH	LETTER	DESCRIPTIONS					
	AC	Asphalt Concrete					
	СС	Cement Concrete					
**	CR	Crushed Rock/ Quarry Spalls					
	TS	Topsoil/ Forest Duff/Sod					

Groundwater Contact

T

Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata or geologic units



Approximate location of soil strata change within a geologic soil unit

Material Description Contact

Distinct contact between soil strata or geologic units



SS

MS

HS

Approximate location of soil strata change within a geologic soil unit

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

 \boxtimes

Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

Laboratory / Field Tests

%F Percent fines Atterberg limits ΑL CA CP Chemical analysis Laboratory compaction test CS DS Consolidation test **Direct shear** HA Hydrometer analysis MC Moisture content MD Moisture content and dry density OC Organic content PM Permeability or hydraulic conductivity ы Plasticity index PP Pocket penetrometer **PPM** Parts per million Sieve analysis SA TX UC Triaxial compression Unconfined compression VS Vane shear **Sheen Classification** No Visible Sheen NS

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS



Slight Sheen

Heavy Sheen Not Tested

Moderate Sheen

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	2	Logged By BEL Checked By DJT	Driller ESN Northwest		Drilling Method Direct Push
Surface Vertical I	Elevation (ft) Datum	Undet	termined		Hammer Data	N/A	Drilling Equipment	Power Probe 9500 PTO
Easting (Northing					System Datum		Groundwate	Depth to
Notes:								See Remarks

			F	FIEL	D [DATA							
Elevation (feet)		Interval	Recovered (in)	Blows/foot (N ₆₀)	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0 —	2	24		٨	P2A-B1-0-1			AC	Approximately 2 inches asphalt concrete	NS	<1	
								0 0	GP-GM	Gray fine gravel with silt and sand (medium dense, moist) (fill)	-		
					•				SM	Black silty fine to coarse sand with occasional gravel (loose, wet) (fill)	-		
	_				A	P2A-B1-1-2			ML	Brown silt with occasional sand and gravel (soft, wet)	NS	<1	
									ML	Dark brown silt with organic matter (very soft, wet)	-		Groundwater observed at approximately 1.5 feet during drilling
					 				ML	Gray silt with occasional sand and gravel (medium stiff, wet)			



Log of Boring P2A-B1

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By BEL Checked By DJT	Driller ESN Northwest		Drilling Method Direct Push
Surface Vertical I	Elevation (ft) Datum	Undet	termined		Hammer Data	N/A	Drilling Equipment	Power Probe 9500 PTO
Easting (Northing					System Datum		Groundwate	Depth to
Notes:								See Remarks

					FIEL	D DA	ΛTA							
	Elevation (feet)	o Depth (feet)	Interval	Recovered (In)	Blows/foot (N ₆₀)	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		0—	4	10						AC	Approximately 2 inches asphalt concrete	NS	1.5	
									0 0 0	GP-GM	Gray fine gravel with silt and sand (medium dense, moist) (fill)	-		
										SM	Black silty fine to coarse sand with gravel (loose, moist) (fill)			
		-				P2	2A-B2-1-2					MS	3.1	
		_				<u>*</u>					_	SS	2.7	
L_STANDARD										ML	Brown silt with sand and occasional organic matter (soft, wet)			Groundwater observed at approximately 2.5 feet during drilling
VIRONMENTA		-				A P2	2A-B2-3-4 DEC, OC				_	NS	4.5	
T/GEI8_EN										ML	Brown silt with organic matter (very soft, wet)			
nplate: GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD		_				V				ML	Gray silt with sand and occasional gravel (stiff, wet)			
nplate.														



Log of Boring P2A-B2

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By E Checked By D	BB DJT	Driller GeoEngineers		Drilling Method	Hand Auger	
Surface Vertical	Elevation (ft) Datum	Undet	ermined		Hammer Data		N/A	Drilling Equipment		Hand Auge	-
Easting Northing					System Datum			Groundwate		Depth to Water (ft)	Elevation (ft)
Notes:									Se	e Remarks	

			FIEL	D DATA							
(+0.04) goito; (-1.04)	Depth (feet)	Interval Recovered (in)	Blows/foot (N ₆₀)	Collected Sample Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0-			P2A-B3-1-2			SP-SM	Black fine to medium sand with silt and occasional gravel and organic matter (loose, moist) (fill)	NS	<1	
				P2A-B3-2-3				_	NS	<1	
mplate: GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD				P2A-B3-3-4				Grades to wet	NS	<1	Groundwater observed at approximately 2.5 feet during drilling
nplate:GEOE		<u> </u>		†							



Log of Boring P2A-B3

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By BEL Checked By DJT	Driller ESN Northwest		Drilling Method Direct Push
Surface Vertical I	Elevation (ft) Datum	Undet	termined		Hammer Data	N/A	Drilling Equipment	Power Probe 9500 PTO
Easting (Northing					System Datum		Groundwate	Depth to
Notes:								Not Observed

			FIEL	D DATA						
Elevation (feet)	o Depth (feet) 	Interval Recovered (in)	Blows/foot (N ₆₀)		Water Level Graphic Log		MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0	48		P2A-B4-0-	0		Gray fine gravel with silt and sand (medium dense, moist) (fill) Brown to black silty fine to coarse sand with occasional gravel and debris (piece of	NS	<1	
	_			P2A-B4-1-	2		metal) (medium dense, moist) (fill) -	NS	<1	
				<u>*</u>				NS	<1	
al_STANDARD						SM	Brown to gray with orange mottling silty sand with occasional gravel (medium dense, moist)	-		
nplate:GEOENGINEERS8.GDT/GE18_ENVIRONMENTAL_STANDARD				P2A-B4-3- SA, HA, CEC, OC			-	NS	<1	MC=21%; %F=48
plate: GEO ENGINE	_									



Log of Boring P2A-B4

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By BEL Checked By DJT	Driller ESN Northwest		Drilling Method Direct Push
Surface Vertical	Elevation (ft) Datum	Unde	ermined		Hammer Data	N/A	Drilling Equipment	Power Probe 9500 PTO
Easting Northing					System Datum		Groundwate	Depth to
Notes:								See Remarks

		FIEL								
o Depth (feet)		Blows/foot (N ₆₀)	Collected Sample Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0—	40				0 0 0 0 0	GP-GM	Gray fine gravel with silt and sand (medium dense, moist) (fill)	NS	<1	
			P2A-B5-1	-2		SM	Black silty fine to coarse sand (loose, moist) (fill)	NS	<1	
						SM	Brown silty fine to medium sand with occasional gravel (medium dense, wet)	NS	<1	Groundwater observed at approximately 2.5 feet during drilling
			P2A-B5-3 SA, HA CEC, Or	- <u>4</u>		SM	Gray-brown silty sand with occasional gravel (medium dense, wet)	NS	<1	MC=20%; %F=42
	O Depth (feet)	^ I	Depth (feet) Interval Recovered (in) Blows/foot (N ₆₀)	0 40 P2A-B5-1-	Interval Interval Recovered (in) Blows/foot (Neo) Collected Sample Sample Name Testing	Depth (feet) Interval Interval Recovered (in) Blows/foot (N _{0,0}) Collected Sample Testing Testing Water Level	Interval Interval	MATERIAL DESCRIPTION Maguel Level (u) Page 1	MATERIAL DESCRIPTION Magnification of the second of the s	MATERIAL DESCRIPTION Substitution Description Desc



Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Project Number: 0570-133-02

Log of Boring P2A-B5



GEOENGINEERS

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By BB Checked By DJT	Driller GeoEngineers		Drilling Method Hand Auger
Surface Vertical	Elevation (ft) Datum	Undet	termined		Hammer Data	N/A	Drilling Equipment	Hand Auger
Easting Northing					System Datum		Groundwate	Depth to
Notes:								Not Observed

				FIEL	D DA	TΑ							
	Elevation (feet)	o Depth (feet)	Interval Recovered (in)	Blows/foot (N ₆₀)	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		0			P2	2A-B6-0-1			SM	Black fine to medium silty sand with occasional organic matter and gravel (loose, moist) (fill)	NS	1.2	
					<u> </u>					_	NS	1.4	
STANDARD					P2	2A-B6-2-3				_	NS	1.4	
plate:GEOENGINEERS8.GDT/GE18_ENVIRONMENTAL_STANDARD		_			P2	2A-B6-3-4				Becomes dark brown	NS NS	<1	
late: GEOENGINEERS8					 •								



Log of Boring P2A-B6

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By E Checked By E	Driller ESN Northwest	Drilling Method Direct Push			
Surface Vertical	Elevation (ft) Datum	Undet	termined		Hammer Data	N/A	Drilling Equipment			
Easting Northing				System Datum		Groundwate	Depth to			
Notes:						See Remarks				

			FIEL		ATA							
Elevation (feet)	o Depth (feet)		Blows/foot (N ₆₀)	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0	36						SP-SM	Gray fine to coarse sand with silt and gravel (medium dense, moist) (fill)	NS	<1	
	_				P2A-B7-1-2			SM	Black silty fine to coarse sand (loose, moist) (fill)	NS	<1	
AL_STANDARD								ML	Gray with orange staining sandy silt (medium stiff, wet)	NS	3	Groundwater observed at approximately 2.5 feet during drilling
mpare.GEOENGINEERS8.GDT/GEB_ENVIRONMENTAL_STANDARD				A 1	P2A-B7-3-4 SA, CEC, OC					NS	<1	MC=15%; %F=51



Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington



Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By BEL Checked By DJT	Driller ESN Northwest	Drilling Method Direct Push		
	Surface Elevation (ft) Undetermined Vertical Datum				Hammer Data	N/A	Drilling Power Probe 9500 PTO Equipment		
Easting Northing					System Datum		Groundwate	Depth to	
Notes:								Not Observed	

FIELD DATA Collected Sample Elevation (feet) Sample Name Testing Group Classification **MATERIAL** Graphic Log o Depth (feet) Water Level **REMARKS** Blows/foot (N₆₀) **DESCRIPTION** Interval Gray fine gravel with silt and sand (medium dense, moist) (fill) NS <1 Gray silty fine to coarse sand with gravel (loose, moist) (fill) P2A-B8-2-3 NS NS Cobble encountered at 4 feet SM Brown silty fine to medium sand (medium dense, moist)

Note: See Figure A-1 for explanation of symbols.



Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Project Number: 0570-133-02



Figure A-9 Sheet 1 of 1

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By BEL Checked By DJT	Driller ESN Northwest	Drilling Method Direct Push		
Surface Elevation (ft) Undetermined Vertical Datum					Hammer Data	N/A	Drilling Equipment	Power Probe 9500 PTO	
Easting (Northing					System Datum		Groundwate	Depth to	
Notes:								Not Observed	

			FIEL	D DATA							
Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot (N ₆₀)	Collected Sample Sample Name Testing	Water Level		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0 —	48					AC	Approximately 1 inch asphalt concrete	NS	<1	
					l þ	0	GP	Gray fine gravel with sand (medium dense, moist) (fill)			
							SM	Black silty fine to coarse sand with occasional gravel (loose, moist) (fill)	-		
	-			P2A-B9-1-2				-	NS	340	
	_						014		NS	3	
NTAL_STANDARD	_			P2A-B9-3-4			SM	Brown with orange mottling silty sand (medium dense, moist)	NS	3	MC=25%; %F=35
mpiara: GEO ENGINEERS 8. G DT/GE18_ENVIRONMENTAL_STANDARD	-			P2A-B9-3-4 SA, HA, CEC, OC					INS	3	MC=25%; %F=35



Log of Boring P2A-B9

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	4	Logged By BEL Checked By DJT	Driller ESN Northwest	Drilling Method Direct Push		
Surface Elevation (ft) Undetermined Vertical Datum					Hammer Data	N/A	Drilling Equipment	Power Probe 9500 PTO	
Easting (Northing					System Datum		Groundwate	Depth to	
Notes:								Not Observed	

ſ			FIELD DATA								
Elevation (feet)	o Depth (feet) I	Interval Recovered (in)	Blows/foot (N ₆₀)	Collected Sample Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0—	48					AC	Approximately 1 inch asphalt concrete	SS	<1	
					c	0	P-GM	Gray fine gravel with silt and sand (medium dense, moist) (fill)			
							SM	Black silty fine to coarse sand with occasional gravel (loose, moist) (fill)			
	-			P2A-B10-1-2	:			_	SS	<1	
	-						ML	Brown sandy silt (medium stiff, moist)	NS	<1	
AL_STANDARD							SM	Brown fine to coarse silty sand with occasional gravel (medium dense, moist)			
nplate: GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD	-			P2A-B10-3-4 SA, CEC, OC				-	NS	<1	MC=8%; %F=25



Log of Boring P2A-B10

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

Drilled	<u>Start</u> 7/8/2015	<u>End</u> 7/8/2015	Total Depth (ft)	1	Logged By BB Checked By DJT	Driller GeoEngineers		Drilling Method Hand Auger		
Surface Elevation (ft) Undetermined Vertical Datum					Hammer Data		Drilling Hand Au Equipment			
Easting Northing					System Datum		Groundwate	_ [Depth to Vater (ft)	Elevation (ft)
Notes:										

1				FIEL	D D	ATA							
	Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot (N ₆₀)		<u>Sample Name</u> Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		0—	12		· •	°2A-HA1-0-1			SM	Dark brown silt, fine to medium sand with occasional gravel (loose, moist) (fill)	NS	<1	



Log of Boring P2A-HA1

Project: Prairie Line Trail Phase 2A-2B

Project Location: Tacoma, Washington

APPENDIX B Chemical Analytical Program



Data Validation Report

1101 Fawcett Avenue, Suite 200, Tacoma, Washington 98402, Telephone: 253.383.4940, Fax: 253.383.4923

www.geoengineers.com

Project: City of Tacoma – Prairie Line Trail, Phase 2A

July 2015 Soil and Groundwater Samples

GEI File No: 0570-133-02

Date: August 10, 2015

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil and groundwater samples collected as part of the July 2015 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Prairie Line Trail Site located along Hood Street (existing rail alignment) between South 17th Street and South 15th Street and between South 21st Street and South 26th Street in Tacoma, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2008) and Inorganic Superfund Data Review (USEPA 2010) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The laboratory data was reviewed for the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits
- Miscellaneous



Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

Table 1: Summary of Validated Sample Delivery Groups

Laboratory SDG	Samples Validated
1507-051	P2A-B3-1-2, P2A-B3-2-3, P2A-B3-3-4, P2A-B6-0-1, P2A-B6-2-3, P2A-B6-3-4, P2A-HA1-0-1, P2A-S1-150707, P2A-S2-150707, P2A-S3-150707
1507-071	P2A-B1-0-1, P2A-B1-1-2, P2A-B2-1-2, P2A-B2-3-4, P2A-B4-0-1, P2A-B4-1-2, P2A-B4-3-4, P2A-B5-1-2, P2A-B5-3-4, P2A-B7-1-2, P2A-B7-3-4, P2A-B8-0-1, P2A-B8-2-3, P2A-B9-1-2, P2A-B9-3-4, P2A-B10-1-2, P2A-B10-3-4

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the soil and groundwater samples using one or more of the following methods:

- Hydrocarbon Identification (NWTPH-HCID) by Method NWTPH-HCID;
- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by Method SW8260C;
- Halogenated Volatile Organic Compounds (HVOCs) by Method SW8260B/8260C;
- Semi-volatile Organic Compounds (SVOCs) by Methods SW8270D and SW8270D-SIM;
- Polycyclic Aromatic Hydrocarbons (PAHs) by Methods SW8270D and SW8270D-SIM;
- Total Metals by Methods EPA6010C/SW7471B; and
- Dissolved Metals by Methods EPA200.8/SW7470A

Data Validation Summary

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines, with exception of the laboratory sample receipt form. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.



Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The laboratory did not include the sample receipt forms that discuss anomalies with the samples once they are received by the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analyses, with the exception noted below. The samples were stored at the laboratory at the appropriate temperatures of between two and six degrees Celsius; however, since the laboratory did not include the sample receipt forms, the sample cooler temperatures could not be verified that they were within the control limits upon arrival at the laboratory.

SDG 1507-051: (PAHs) The 14-day holding time was exceeded in Sample P2A-B6-3-4. The sample was initially analyzed on 7/20/2015; however, reextraction and reanalysis outside of holding time were required due to failed laboratory quality control limits. For this reason, the positive results for the target analytes were qualified as estimated (J) in this sample.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For the sample batches, method blanks for each applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.



For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit is 20 percent for water samples and 35 percent for soil samples. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the exceptions noted below:

SDG 1507-051: (NWTPH-Dx) A laboratory duplicate sample analysis was performed on Sample P2A-B3-1-2. The RPD values for diesel-range and lube oil-range hydrocarbons were greater than the control limit. The positive results for diesel-range and lube oil-range hydrocarbons were qualified as estimated (J) in this sample.

A laboratory duplicate sample analysis was performed with an RPD outlier; however, it was performed on a sample not associated with the project batch samples. For this reason, no action was required.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for all target analytes throughout this sampling event, with the following exceptions:

SDG 1507-051: (VOCs) Some Model Toxics Control Act Method A cleanup levels were non-achievable due to sample matrix effects for Samples P2A-B3-1-2, P2A-B3-2-3, P2A-B3-3-4, P2A-B6-3-4, and P2A-HA1-0-1. No action was required, other than to note it here.



SDG 1507-071: (VOCs) Some Model Toxics Control Act Method A cleanup levels were non-achievable due to sample matrix effects for Samples P2A-B1-0-1, P2A-B5-1-2, P2A-B7-1-2, and P2A-B9-1-2. No action was required, other than to note it here.

Miscellaneous

SDG 1507-051: (NWTPH-HCID) The positive results for diesel-range hydrocarbons in Samples P2A-B3-1-2, P2A-B6-0-1, and P2A-B6-2-3 may be influenced by the relative concentration of lube oil-range hydrocarbons in the samples. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in these samples, in order to signify a potential high bias.

The positive results for lube oil-range hydrocarbons in Samples P2A-B3-1-2, P2A-B6-0-1, and P2A-B6-2-3 may be influenced by the relative concentration of diesel-range hydrocarbons in the samples. For this reason, the positive results for lube oil-range hydrocarbons were qualified as estimated (J) in these samples, in order to signify a potential high bias.

(NWTPH-Dx) The positive results for diesel-range hydrocarbons in Samples P2A-B3-1-2, P2A-B3-2-3, P2A-B3-3-4, P2A-B6-0-1, P2A-B6-2-3, and P2A-HA1-0-1 may be influenced by the relative concentration of lube oil-range hydrocarbons in the samples. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in these samples, in order to signify a potential high bias.

(PAHs) The laboratory reported two sets of PAH results for Sample P2A-B6-3-4, an initial and a reextraction. The entire data set of target analytes in the initial sample were labeled as do-not-report (DNR) and should not be used for any purpose.

SDG 1507-071: (NWTPH-Dx) The positive results for diesel-range hydrocarbons in Samples P2A-B1-0-1, P2A-B2-1-2, P2A-B4-0-1, and P2A-B7-1-2 may be influenced by the relative concentration of lube oil-range hydrocarbons in the samples. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in these samples, in order to signify a potential high bias.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.



TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Method	Qualifier	Reason
P2A-B1-0-1	Diesel-range Hydrocarbons	NWTPH-Dx	J	See Miscellaneous
P2A-B2-1-2	Diesel-range Hydrocarbons	NWTPH-Dx	J	See Miscellaneous
P2A-B3-1-2	Diesel-range Hydrocarbons Lube oil-range Hydrocarbons	NWTPH-HCID/-Dx NWTPH-HCID/-Dx	J	Laboratory Dup RPD/See Misc. Laboratory Dup RPD/See Misc.
P2A-B3-2-3	Diesel-range Hydrocarbons	NWTPH-Dx	J	See Miscellaneous
P2A-B3-3-4	Diesel-range Hydrocarbons	NWTPH-Dx	J	See Miscellaneous
P2A-B4-0-1	Diesel-range Hydrocarbons	NWTPH-Dx	J	See Miscellaneous
P2A-B6-0-1	Diesel-range Hydrocarbons Lube oil-range Hydrocarbons	NWTPH-HCID/-Dx NWTPH-HCID	J	See Miscellaneous See Miscellaneous
P2A-B6-2-3	Diesel-range Hydrocarbons Lube oil-range Hydrocarbons	NWTPH-HCID/-Dx NWTPH-HCID	J	See Miscellaneous See Miscellaneous
P2A-B6-3-4	PAH target analytes (7/28/2015) PAH target analytes (7/20/2015)	EPA 8270D/-SIM EPA 8270D/-SIM	J DNR	Holding Time See Miscellaneous
P2A-B7-1-2	Diesel-range Hydrocarbons	NWTPH-Dx	J	See Miscellaneous
P2A-HA1-0-1	Diesel-range Hydrocarbons	NWTPH-Dx	J	See Miscellaneous

References

- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.
- U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," EPA-540-R-10-011. January 2010.





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 30, 2015

Tricia DeOme GeoEngineers, Inc. 1101 Fawcett Avenue South, Suite 200 Tacoma, WA 98402

Re: Analytical Data for Project 0570-133-02

Laboratory Reference No. 1507-051

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on July 8, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Project: 0570-133-02

Case Narrative

Samples were collected on July 7, 2015 and received by the laboratory on July 8, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Some MTCA Method A cleanup levels are non-achievable for samples P2A-B3-1-2, P2A-B3-3-4, and P2A-HA1-0-1 due to sample matrix effects.

Some MTCA Method A cleanup levels are non-achievable for samples P2A-B3-2-3 and P2A-B6-3-4 due to sample matrix effects.

PAHs EPA 8270D/SIM Analysis

The sample that was originally extracted on July 20th failed quality control limits. These samples were re-extracted seven days out of hold time. The results were similar and both sets of data are reported.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Project: 0570-133-02

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
P2A-B3-1-2	07-051-02	Soil	7-7-15	7-8-15	
P2A-B3-2-3	07-051-03	Soil	7-7-15	7-8-15	
P2A-B3-3-4	07-051-04	Soil	7-7-15	7-8-15	
P2A-HA1-0-1	07-051-05	Soil	7-7-15	7-8-15	
P2A-B6-0-1	07-051-06	Soil	7-7-15	7-8-15	
P2A-B6-2-3	07-051-08	Soil	7-7-15	7-8-15	
P2A-B6-3-4	07-051-09	Soil	7-7-15	7-8-15	
P2A-S2-150707	07-051-10	Water	7-7-15	7-8-15	
P2A-S3-150707	07-051-11	Water	7-7-15	7-8-15	
P2A-S1-150707	07-051-12	Water	7-7-15	7-8-15	

Date of Report: July 30, 2015 Samples Submitted: July 8, 2015 Laboratory Reference: 1507-051 Project: 0570-133-02

NWTPH-HCID

Matrix: Soil

Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	P2A-B3-1-2				•	
Laboratory ID:	07-051-02					
Gasoline Range Organics	Detected	23	NWTPH-HCID	7-9-15	7-10-15	N1
Diesel Range Organics	Detected	58	NWTPH-HCID	7-9-15	7-10-15	N
Lube Oil	Detected	120	NWTPH-HCID	7-9-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				
Client ID:	P2A-B3-3-4					
Laboratory ID:	07-051-04					
Gasoline Range Organics	ND	30	NWTPH-HCID	7-9-15	7-10-15	
Diesel Range Organics	ND	75	NWTPH-HCID	7-9-15 7-9-15	7-10-15 7-10-15	
Lube Oil	Detected	150	NWTPH-HCID	7-9-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits	111111111111111111111111111111111111111	7 0 10	7 10 10	
o-Terphenyl	81	50-150				
o respirent.	0.	00 700				
Client ID:	P2A-HA1-0-1					
Laboratory ID:	07-051-05					
Gasoline Range Organics	ND	32	NWTPH-HCID	7-9-15	7-10-15	
Diesel Range Organics	ND	80	NWTPH-HCID	7-9-15	7-10-15	
Lube Oil	Detected	160	NWTPH-HCID	7-9-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	78	50-150				
Client ID:	P2A-B6-0-1					
Laboratory ID:	07-051-06					
Gasoline Range Organics	Detected	22	NWTPH-HCID	7-9-15	7-10-15	N1
Diesel Range Organics	Detected	55	NWTPH-HCID	7-9-15	7-10-15	N
Lube Oil	Detected	110	NWTPH-HCID	7-9-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	96	50-150				
Client ID:	P2A-B6-2-3					
Laboratory ID:	07-051-08					
Gasoline Range Organics	Detected	22	NWTPH-HCID	7-9-15	7-10-15	N1
Diesel Range Organics	Detected	56	NWTPH-HCID	7-9-15 7-9-15	7-10-15 7-10-15	N
Lube Oil	Detected	110	NWTPH-HCID	7-9-15 7-9-15	7-10-15 7-10-15	IN
Surrogate:	Percent Recovery	Control Limits	1444 11 11-11OID	7 0-10	1 10-10	
o-Terphenyl	100	50-150				

Project: 0570-133-02

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S2-150707					
Laboratory ID:	07-051-10					
Gasoline	ND	100	NWTPH-Gx	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	71-113				
Client ID:	P2A-S3-150707					
Laboratory ID:	07-051-11					
Gasoline	ND	100	NWTPH-Gx	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	71-113				
Client ID:	P2A-S1-150707					
Laboratory ID:	07-051-12					
Gasoline	ND	400	NWTPH-Gx	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	92	71-113				

Project: 0570-133-02

NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-1-2					
Laboratory ID:	07-051-02					
Gasoline	ND	6.2	NWTPH-Gx	7-16-15	7-16-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	116	68-123				
Client ID:	P2A-B6-0-1					
Laboratory ID:	07-051-06					
Gasoline	ND	5.6	NWTPH-Gx	7-16-15	7-16-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	100	68-123				
Client ID:	P2A-B6-2-3					
Laboratory ID:	07-051-08					
Gasoline	ND	5.4	NWTPH-Gx	7-16-15	7-16-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	105	68-123				

Project: 0570-133-02

NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S2-150707					
Laboratory ID:	07-051-10					
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-13-15	7-14-15	_
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	77	50-150				
Client ID:	P2A-S3-150707					
Laboratory ID:	07-051-11					
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-13-15	7-13-15	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	78	50-150				
Client ID:	P2A-S1-150707					
Laboratory ID:	07-051-12					
Diesel Range Organics	0.43	0.26	NWTPH-Dx	7-13-15	7-14-15	
Lube Oil Range Organics	0.87	0.41	NWTPH-Dx	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	61	50-150				

Project: 0570-133-02

NWTPH-Dx

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-1-2					
Laboratory ID:	07-051-02					
Diesel Range Organics	310	140	NWTPH-Dx	7-14-15	7-14-15	N
Lube Oil	2100	290	NWTPH-Dx	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	77	50-150				
Client ID:	P2A-B3-3-4					
Laboratory ID:	07-051-04					
Diesel Range Organics	93	37	NWTPH-Dx	7-14-15	7-14-15	N
Lube Oil	360	75	NWTPH-Dx	7-14-15	7-14-15	• •
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				
, ,						
Client ID:	P2A-HA1-0-1					
Laboratory ID:	07-051-05					
Diesel Range Organics	82	40	NWTPH-Dx	7-14-15	7-14-15	N
Lube Oil	310	80	NWTPH-Dx	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	85	50-150				
Client ID:	P2A-B6-0-1					
Laboratory ID:	07-051-06					
Diesel Range Organics	360	27	NWTPH-Dx	7-14-15	7-14-15	N
Lube Oil	1300	55	NWTPH-Dx	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	100	50-150				
Client ID:	P2A-B6-2-3					
Laboratory ID:	07-051-08					
Diesel Range Organics	160	28	NWTPH-Dx	7-14-15	7-14-15	N
Lube Oil	380	56	NWTPH-Dx	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				

Project: 0570-133-02

NWTPH-Dx

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-2-3					
Laboratory ID:	07-051-03					
Diesel Range Organics	120	33	NWTPH-Dx	7-20-15	7-20-15	N
Lube Oil	880	66	NWTPH-Dx	7-20-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S2-150707					
Laboratory ID:	07-051-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Acetone	ND	5.0	EPA 8260C	7-9-15	7-9-15	
Iodomethane	ND	1.3	EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	1.0	EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Butanone	ND	5.0	EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroform	0.21	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Trichloroethene	1.4	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Toluene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S2-150707					
Laboratory ID:	07-051-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Tetrachloroethene	0.59	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Hexanone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Dibromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Ethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
m,p-Xylene	ND	0.40	EPA 8260C	7-9-15	7-9-15	
o-Xylene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Styrene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromoform	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Isopropylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Propylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Naphthalene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	79-131				
T / 10	0.5	00.400				

 Dibromofluoromethane
 104
 79-131

 Toluene-d8
 95
 80-120

 4-Bromofluorobenzene
 93
 80-120

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S3-150707					
Laboratory ID:	07-051-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Acetone	ND	5.0	EPA 8260C	7-9-15	7-9-15	
Iodomethane	ND	1.3	EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	1.0	EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Butanone	ND	5.0	EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroform	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Trichloroethene	0.76	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Toluene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	

Project: 0570-133-02

Toluene-d8

4-Bromofluorobenzene

VOLATILES EPA 8260C

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S3-150707					
Laboratory ID:	07-051-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Tetrachloroethene	0.38	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Hexanone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Dibromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Ethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
m,p-Xylene	ND	0.40	EPA 8260C	7-9-15	7-9-15	
o-Xylene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Styrene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromoform	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Isopropylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Propylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromo-3-chloropropane	ND ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Naphthalene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	111	79-131				
T / 10	00	00.400				

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80-120

80-120

98

94

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S1-150707					
Laboratory ID:	07-051-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Acetone	5.0	5.0	EPA 8260C	7-9-15	7-9-15	
Iodomethane	ND	1.3	EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	1.0	EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Butanone	ND	5.0	EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroform	0.20	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Trichloroethene	1.5	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Toluene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	

Project: 0570-133-02

4-Bromofluorobenzene

VOLATILES EPA 8260C

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-S1-150707					
Laboratory ID:	07-051-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Tetrachloroethene	0.66	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Hexanone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Dibromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Ethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
m,p-Xylene	ND	0.40	EPA 8260C	7-9-15	7-9-15	
o-Xylene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Styrene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromoform	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Isopropylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Propylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Naphthalene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	109	79-131				
Toluene-d8	100	80-120				

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80-120

98

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-1-2						
Laboratory ID:	07-051-02						
Dichlorodifluoromethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Acetone	0.025	0.0066		EPA 8260C	7-9-15	7-9-15	
Iodomethane	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
2-Butanone	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Chloroform	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Trichloroethene	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.0013		EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
Toluene	ND	0.0066		EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.063		EPA 8260C	7-10-15	7-10-15	

Date of Report: July 30, 2015 Samples Submitted: July 8, 2015 Laboratory Reference: 1507-051 Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-1-2						
Laboratory ID:	07-051-02						
1,1,2-Trichloroethane	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Tetrachloroethene	ND	0.063	0.018	EPA 8260C	7-10-15	7-10-15	
1,3-Dichloropropane	ND	0.063		EPA 8260C	7-10-15	7-10-15	
2-Hexanone	ND	0.31		EPA 8260C	7-10-15	7-10-15	
Dibromochloromethane	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromoethane	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Chlorobenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,1,1,2-Tetrachloroethane	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Ethylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
m,p-Xylene	ND	0.13		EPA 8260C	7-10-15	7-10-15	
o-Xylene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Styrene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Bromoform	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Isopropylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Bromobenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,1,2,2-Tetrachloroethane	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichloropropane	ND	0.063		EPA 8260C	7-10-15	7-10-15	
n-Propylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
2-Chlorotoluene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
4-Chlorotoluene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,3,5-Trimethylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
tert-Butylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,2,4-Trimethylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
sec-Butylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,3-Dichlorobenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
p-Isopropyltoluene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,4-Dichlorobenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,2-Dichlorobenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
n-Butylbenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromo-3-chloropropane	ND	0.31		EPA 8260C	7-10-15	7-10-15	
1,2,4-Trichlorobenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Hexachlorobutadiene	ND	0.31		EPA 8260C	7-10-15	7-10-15	
Naphthalene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichlorobenzene	ND	0.063		EPA 8260C	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits					
Dibromofluoromethane	123	76-131					
Toluene-d8	104	82-129					
4-Bromofluorobenzene	108	79-126					

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

Analyte Result PQL MDL Method Prepared Analyzed Client ID: P2A-B3-3-4 Laboratory ID: 07-051-04 Dichlorodifluoromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 Chloromethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Vinyl Chloride 0.0019 0.0013 EPA 8260C 7-9-15 7-9-15 Bromomethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 Chloroethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 Trichlorofluoromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 1,1-Dichloroethene ND 0.0013 EPA 8260C 7-9-15 7-9-15 Acetone 0.096 0.0064 EPA 8260C 7-9-15 7-9-15 Iodomethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Carbon Disulfide 0.0015 0.0013 EPA 8260C 7-9-15 7-9	
Laboratory ID: 07-051-04 Dichlorodifluoromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 Chloromethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Vinyl Chloride 0.0019 0.0013 EPA 8260C 7-9-15 7-9-15 Bromomethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 Chloroethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Trichlorofluoromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 1,1-Dichloroethene ND 0.0013 EPA 8260C 7-9-15 7-9-15 Acetone 0.096 0.0064 EPA 8260C 7-9-15 7-9-15 Iodomethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Carbon Disulfide 0.0015 0.0013 EPA 8260C 7-9-15 7-9-15	Flags
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Chloroethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Trichlorofluoromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 1,1-Dichloroethene ND 0.0013 EPA 8260C 7-9-15 7-9-15 Acetone 0.096 0.0064 EPA 8260C 7-9-15 7-9-15 Iodomethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Carbon Disulfide 0.0015 0.0013 EPA 8260C 7-9-15 7-9-15	
Trichlorofluoromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15 1,1-Dichloroethene ND 0.0013 EPA 8260C 7-9-15 7-9-15 Acetone 0.096 0.0064 EPA 8260C 7-9-15 7-9-15 Iodomethane ND 0.0064 EPA 8260C 7-9-15 7-9-15 Carbon Disulfide 0.0015 0.0013 EPA 8260C 7-9-15 7-9-15	
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Carbon Disulfide 0.0015 0.0013 EPA 8260C 7-9-15 7-9-15	
M (I I OI I I ND 0000)	
Methylene Chloride ND 0.0064 EPA 8260C 7-9-15 7-9-15	
(trans) 1,2-Dichloroethene ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Methyl t-Butyl Ether ND 0.0013 EPA 8260C 7-9-15 7-9-15	
1,1-Dichloroethane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Vinyl Acetate ND 0.0064 EPA 8260C 7-9-15 7-9-15	
2,2-Dichloropropane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
(cis) 1,2-Dichloroethene 0.0037 0.0013 EPA 8260C 7-9-15 7-9-15	
2-Butanone 0.021 0.0064 EPA 8260C 7-9-15 7-9-15	
Bromochloromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Chloroform ND 0.0013 EPA 8260C 7-9-15 7-9-15	
1,1,1-Trichloroethane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Carbon Tetrachloride ND 0.0013 EPA 8260C 7-9-15 7-9-15	
1,1-Dichloropropene ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Benzene ND 0.0013 EPA 8260C 7-9-15 7-9-15	
1,2-Dichloroethane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Trichloroethene ND 0.0013 EPA 8260C 7-9-15 7-9-15	
1,2-Dichloropropane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Dibromomethane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Bromodichloromethane ND 0.0013 EPA 8260C 7-9-15 7-9-15	
2-Chloroethyl Vinyl Ether ND 0.0064 EPA 8260C 7-9-15 7-9-15	
(cis) 1,3-Dichloropropene ND 0.0013 EPA 8260C 7-9-15 7-9-15	
Methyl Isobutyl Ketone ND 0.0064 EPA 8260C 7-9-15 7-9-15	
Toluene ND 0.0064 EPA 8260C 7-9-15 7-9-15	
(trans) 1,3-Dichloropropene ND 0.096 EPA 8260C 7-10-15 7-10-15	

Project: 0570-133-02

VOLATILES EPA 8260C page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-3-4						
Laboratory ID:	07-051-04						
1,1,2-Trichloroethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Tetrachloroethene	ND	0.096	0.028	EPA 8260C	7-10-15	7-10-15	
1,3-Dichloropropane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
2-Hexanone	ND	0.48		EPA 8260C	7-10-15	7-10-15	
Dibromochloromethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromoethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Chlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,1,1,2-Tetrachloroethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Ethylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
m,p-Xylene	ND	0.19		EPA 8260C	7-10-15	7-10-15	
o-Xylene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Styrene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Bromoform	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Isopropylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Bromobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,1,2,2-Tetrachloroethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichloropropane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
n-Propylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
2-Chlorotoluene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
4-Chlorotoluene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,3,5-Trimethylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
tert-Butylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2,4-Trimethylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
sec-Butylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,3-Dichlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
p-Isopropyltoluene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,4-Dichlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2-Dichlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
n-Butylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromo-3-chloropropane	ND	0.48		EPA 8260C	7-10-15	7-10-15	
1,2,4-Trichlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Hexachlorobutadiene	ND	0.48		EPA 8260C	7-10-15	7-10-15	
Naphthalene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits					
Dibromofluoromethane	130	76-131					
Toluene-d8	103	82-129					
4-Bromofluorobenzene	103	79-126					

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-HA1-0-1						
Laboratory ID:	07-051-05						
Dichlorodifluoromethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Acetone	0.025	0.0070		EPA 8260C	7-9-15	7-9-15	
Iodomethane	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
2-Butanone	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Chloroform	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Trichloroethene	0.0092	0.0014		EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.0014		EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
Toluene	ND	0.0070		EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.096		EPA 8260C	7-10-15	7-10-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

Client ID:						Date	Date	
Laboratory ID:	Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane	Client ID:	P2A-HA1-0-1						
Tetrachloroethene 0.060 0.096 0.028 EPA 8260C 7-10-15 7-10-15 J. 3-Dichloropropane ND 0.096 EPA 8260C 7-10-15 7-10-15 7-10-15 Dibromochloromethane ND 0.096 EPA 8260C 7-10-15 7-10-15 7-10-15 Dibromochloromethane ND 0.096 EPA 8260C 7-10-15	Laboratory ID:	07-051-05						
1,3-Dichloropropane ND 0.096 EPA 8260C 7-10-15 7-10-15 PD 0.48 EPA 8260C 7-10-15 7-10-15 PD 0.48 EPA 8260C 7-10-15 7-10-15 PD 0.096 EPA 8260C PD 0.096 EPA 82	1,1,2-Trichloroethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
2-Hexanone	Tetrachloroethene	0.060	0.096	0.028	EPA 8260C	7-10-15	7-10-15	J
Dibromochloromethane	1,3-Dichloropropane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromoethane	2-Hexanone	ND	0.48		EPA 8260C	7-10-15	7-10-15	
Chlorobenzene	Dibromochloromethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,1,1,2-Tetrachloroethane	1,2-Dibromoethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Ethylbenzene	Chlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
m.pXylene ND 0.19 EPA 8260C 7-10-15 7-10-15 o-Xylene ND 0.096 EPA 8260C 7-10-15 7-10-15 Styrene ND 0.096 EPA 8260C 7-10-15 7-10-15 Bromoform ND 0.096 EPA 8260C 7-10-15 7-10-15 Isopropylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Bromobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Bromobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,1,2,2-Tetrachloroethane ND 0.096 EPA 8260C 7-10-15 7-10-15 1,1,2,3-Trichloropropane ND 0.096 EPA 8260C 7-10-15 7-10-15 2-Chlorotoluene ND 0.096 EPA 8260C 7-10-15 7-10-15 4-Chlorotoluene ND 0.096 EPA 8260C 7-10-15 7-10-15 4-Chlorotoluene ND 0.096 EPA 8260C 7-10-15 7-10-15	1,1,1,2-Tetrachloroethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
ND 0.096 EPA 8260C 7-10-15	Ethylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Styrene	m,p-Xylene	ND	0.19		EPA 8260C	7-10-15	7-10-15	
Second From the color of the	o-Xylene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Sepropylbenzene ND 0.096 EPA 8260C 7-10-15 7	Styrene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Second Denomber ND 0.096 EPA 8260C 7-10-15 7-10-15 7-10-15 1,1,2,2-Tetrachloroethane ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichloropropane ND 0.096 EPA 8260C 7-10-15	Bromoform	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,1,2,2-Tetrachloroethane	sopropylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichloropropane	Bromobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
ND 0.096 EPA 8260C 7-10-15 7-10-15	1,1,2,2-Tetrachloroethane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
2-Chlorotoluene ND 0.096 EPA 8260C 7-10-15 7-10-15 7-10-15 1,3,5-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 7-10-15 1,3,5-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 7-10-15 7-10-15 1,2,4-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-	1,2,3-Trichloropropane	ND	0.096		EPA 8260C	7-10-15	7-10-15	
4-Chlorotoluene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,3,5-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,4-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,4-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,3-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,3-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Trichlorobe	n-Propylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,3,5-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 ert-Butylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,4-Trimethylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,3-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,3-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 n-Butylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.48 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Hexachlorobutadiene ND 0.096 EPA 8260C 7-10-15 7-10-15 ND 0.096	2-Chlorotoluene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Percent Butylbenzene	4-Chlorotoluene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
Sec-Butylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,3-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 ND 0.096 EPA 8260C 7-10-15	ert-Butylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,3-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 c)-Isopropyltoluene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 n-Butylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.48 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Hexachlorobutadiene ND 0.48 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131	1,2,4-Trimethylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,3-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 p-Isopropyltoluene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 n-Butylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.48 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Hexachlorobutadiene ND 0.48 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131	sec-Butylbenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 n-Butylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.48 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Hexachlorobutadiene ND 0.48 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131	=	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,4-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 n-Butylbenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2-Dibromo-3-chloropropane ND 0.48 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Hexachlorobutadiene ND 0.48 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131	o-Isopropyltoluene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
ND 0.096 EPA 8260C 7-10-15	· · · ·	ND	0.096		EPA 8260C	7-10-15	7-10-15	
ND 0.096 EPA 8260C 7-10-15	1,2-Dichlorobenzene	ND	0.096		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromo-3-chloropropane ND 0.48 EPA 8260C 7-10-15 7-10-15 1,2,4-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Hexachlorobutadiene ND 0.48 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131		ND	0.096			7-10-15	7-10-15	
ND 0.096 EPA 8260C 7-10-15 7-10-15 Hexachlorobutadiene ND 0.48 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131								
Hexachlorobutadiene ND 0.48 EPA 8260C 7-10-15 7-10-15 Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131					EPA 8260C		7-10-15	
Naphthalene ND 0.096 EPA 8260C 7-10-15 7-10-15 1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131	• •					7-10-15		
1,2,3-Trichlorobenzene ND 0.096 EPA 8260C 7-10-15 7-10-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131								
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 126 76-131	•							
Dibromofluoromethane 126 76-131								
		-						
	Toluene-d8	107	82-129					
4-Bromofluorobenzene 104 79-126								

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-0-1					
Laboratory ID:	07-051-06					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Acetone	1.3	0.31	EPA 8260C	7-10-15	7-10-15	
Iodomethane	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
2-Butanone	0.015	0.0073	EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Chloroform	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Trichloroethene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
Toluene	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

Analyte Client ID: Laboratory ID: 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene	Result P2A-B6-0-1 07-051-06	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID: 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane	07-051-06					
1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane						
Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane						
1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
2-Hexanone Dibromochloromethane 1,2-Dibromoethane	0.0016	0.0015	EPA 8260C	7-9-15	7-9-15	
Dibromochloromethane 1,2-Dibromoethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromoethane	ND	0.0073	EPA 8260C	7-9-15	7-9-15	
	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Chlorobenzene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
SHIOLODEHZEHE	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Ethylbenzene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
n,p-Xylene	ND	0.0029	EPA 8260C	7-9-15	7-9-15	
o-Xylene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Styrene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
- Bromoform	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
sopropylbenzene	ND	0.0015	EPA 8260C	7-9-15	7-9-15	
Bromobenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,1,2,2-Tetrachloroethane	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichloropropane	ND	0.063	EPA 8260C	7-10-15	7-10-15	
n-Propylbenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
2-Chlorotoluene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1-Chlorotoluene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,3,5-Trimethylbenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
ert-Butylbenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,2,4-Trimethylbenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
sec-Butylbenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,3-Dichlorobenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
o-Isopropyltoluene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,4-Dichlorobenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,2-Dichlorobenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
n-Butylbenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
1,2-Dibromo-3-chloropropane	ND	0.31	EPA 8260C	7-10-15	7-10-15	
1,2,4-Trichlorobenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
Hexachlorobutadiene	ND	0.31	EPA 8260C	7-10-15	7-10-15	
Naphthalene	0.096	0.063	EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichlorobenzene	ND	0.063	EPA 8260C	7-10-15	7-10-15	
, ,	Percent Recovery	Control Limits		· -		
Dibromofluoromethane	124	76-131				
Toluene-d8	104	82-129				
4-Bromofluorobenzene	82	79-126				

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-2-3					
Laboratory ID:	07-051-08					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Acetone	0.16	0.0048	EPA 8260C	7-9-15	7-9-15	
lodomethane	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
2-Butanone	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Chloroform	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Trichloroethene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
Toluene	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-2-3					
Laboratory ID:	07-051-08					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Tetrachloroethene	0.0023	0.00095	EPA 8260C	7-9-15	7-9-15	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
2-Hexanone	ND	0.0048	EPA 8260C	7-9-15	7-9-15	
Dibromochloromethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Chlorobenzene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Ethylbenzene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
n,p-Xylene	ND	0.0019	EPA 8260C	7-9-15	7-9-15	
o-Xylene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Styrene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Bromoform	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
sopropylbenzene	ND	0.00095	EPA 8260C	7-9-15	7-9-15	
Bromobenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,1,2,2-Tetrachloroethane	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichloropropane	ND	0.058	EPA 8260C	7-10-15	7-10-15	
n-Propylbenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
2-Chlorotoluene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1-Chlorotoluene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,3,5-Trimethylbenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
ert-Butylbenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,2,4-Trimethylbenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
sec-Butylbenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,3-Dichlorobenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
o-Isopropyltoluene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,4-Dichlorobenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,2-Dichlorobenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
n-Butylbenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,2-Dibromo-3-chloropropane	ND	0.29	EPA 8260C	7-10-15	7-10-15	
1,2,4-Trichlorobenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
Hexachlorobutadiene	ND	0.29	EPA 8260C	7-10-15	7-10-15	
Naphthalene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichlorobenzene	ND	0.058	EPA 8260C	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	126	76-131				
Toluene-d8	108	82-129				
4-Bromofluorobenzene	84	79-126				
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Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260B Page 1 of 2

				Date	Date	
Analyte	Result	PQL	MDL Met	hod Prepare	d Analyzed	Flags
Client ID:	P2A-B3-2-3					
Laboratory ID:	07-051-03					
Dichlorodifluoromethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Chloromethane	ND	0.0046	EPA 8	3260C 7-20-15	7-20-15	
Vinyl Chloride	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Bromomethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Chloroethane	ND	0.0046	EPA 8	3260C 7-20-15	7-20-15	
Trichlorofluoromethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
1,1-Dichloroethene	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Iodomethane	ND	0.0046	EPA 8	3260C 7-20-15	7-20-15	
Methylene Chloride	ND	0.0046	EPA 8	3260C 7-20-15	7-20-15	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
1,1-Dichloroethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
2,2-Dichloropropane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
(cis) 1,2-Dichloroethene	0.0011	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Bromochloromethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Chloroform	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
1,1,1-Trichloroethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Carbon Tetrachloride	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
1,1-Dichloropropene	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
1,2-Dichloroethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Trichloroethene	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
1,2-Dichloropropane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Dibromomethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
Bromodichloromethane	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8	3260C 7-20-15	7-20-15	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8	3260C 7-20-15	7-20-15	
(trans) 1,3-Dichloropropene	ND	0.068	EPA 8	3260C 7-20-15	7-20-15	

Project: 0570-133-02

4-Bromofluorobenzene

101

HALOGENATED VOLATILES EPA 8260B

Page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-2-3						
Laboratory ID:	07-051-03						
1,1,2-Trichloroethane	ND	0.068		EPA 8260C	7-20-15	7-20-15	
Tetrachloroethene	ND	0.068	0.020	EPA 8260C	7-20-15	7-20-15	
1,3-Dichloropropane	ND	0.068		EPA 8260C	7-20-15	7-20-15	
Dibromochloromethane	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,2-Dibromoethane	ND	0.068		EPA 8260C	7-20-15	7-20-15	
Chlorobenzene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,1,1,2-Tetrachloroethane	ND	0.068		EPA 8260C	7-20-15	7-20-15	
Bromoform	ND	0.068		EPA 8260C	7-20-15	7-20-15	
Bromobenzene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,1,2,2-Tetrachloroethane	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,2,3-Trichloropropane	ND	0.068		EPA 8260C	7-20-15	7-20-15	
2-Chlorotoluene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
4-Chlorotoluene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,3-Dichlorobenzene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,4-Dichlorobenzene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,2-Dichlorobenzene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
1,2-Dibromo-3-chloropropane	ND	0.34		EPA 8260C	7-20-15	7-20-15	
1,2,4-Trichlorobenzene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
Hexachlorobutadiene	ND	0.34		EPA 8260C	7-20-15	7-20-15	
1,2,3-Trichlorobenzene	ND	0.068		EPA 8260C	7-20-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits					·
Dibromofluoromethane	128	76-131					
Toluene-d8	110	82-129					

79-126

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260B Page 1 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-3-4						
Laboratory ID:	07-051-09						
Dichlorodifluoromethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Chloromethane	ND	0.0054		EPA 8260C	7-20-15	7-20-15	
Vinyl Chloride	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Bromomethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Chloroethane	ND	0.0054		EPA 8260C	7-20-15	7-20-15	
Trichlorofluoromethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
1,1-Dichloroethene	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
lodomethane	ND	0.0054		EPA 8260C	7-20-15	7-20-15	
Methylene Chloride	ND	0.0054		EPA 8260C	7-20-15	7-20-15	
(trans) 1,2-Dichloroethene	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
1,1-Dichloroethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
2,2-Dichloropropane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
(cis) 1,2-Dichloroethene	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Bromochloromethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Chloroform	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
1,1,1-Trichloroethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Carbon Tetrachloride	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
1,1-Dichloropropene	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
1,2-Dichloroethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Trichloroethene	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
1,2-Dichloropropane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Dibromomethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
Bromodichloromethane	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
2-Chloroethyl Vinyl Ether	ND	0.0054		EPA 8260C	7-20-15	7-20-15	
(cis) 1,3-Dichloropropene	ND	0.0011		EPA 8260C	7-20-15	7-20-15	
(trans) 1,3-Dichloropropene	ND	0.063		EPA 8260C	7-20-15	7-20-15	

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260B

Page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-3-4						
Laboratory ID:	07-051-09						
1,1,2-Trichloroethane	ND	0.063		EPA 8260C	7-20-15	7-20-15	
Tetrachloroethene	0.051	0.063	0.018	EPA 8260C	7-20-15	7-20-15	J
1,3-Dichloropropane	ND	0.063		EPA 8260C	7-20-15	7-20-15	
Dibromochloromethane	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,2-Dibromoethane	ND	0.063		EPA 8260C	7-20-15	7-20-15	
Chlorobenzene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,1,1,2-Tetrachloroethane	ND	0.063		EPA 8260C	7-20-15	7-20-15	
Bromoform	ND	0.063		EPA 8260C	7-20-15	7-20-15	
Bromobenzene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,1,2,2-Tetrachloroethane	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,2,3-Trichloropropane	ND	0.063		EPA 8260C	7-20-15	7-20-15	
2-Chlorotoluene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
4-Chlorotoluene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,3-Dichlorobenzene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,4-Dichlorobenzene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,2-Dichlorobenzene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
1,2-Dibromo-3-chloropropane	ND	0.31		EPA 8260C	7-20-15	7-20-15	
1,2,4-Trichlorobenzene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
Hexachlorobutadiene	ND	0.31		EPA 8260C	7-20-15	7-20-15	
1,2,3-Trichlorobenzene	ND	0.063		EPA 8260C	7-20-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits	•			_	_
Dibromofluoromethane	119	76-131					

Surrogate: Percent Recovery Control Limit Dibromofluoromethane 119 76-131 Toluene-d8 100 82-129 4-Bromofluorobenzene 99 79-126

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-1-2					
Laboratory ID:	07-051-02					
Naphthalene	0.22	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
2-Methylnaphthalene	0.23	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
1-Methylnaphthalene	0.17	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthylene	0.079	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthene	0.043	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Fluorene	0.042	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Phenanthrene	0.44	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Anthracene	0.13	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Fluoranthene	0.34	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Pyrene	0.35	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]anthracene	0.19	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Chrysene	0.26	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[b]fluoranthene	0.28	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo(j,k)fluoranthene	0.068	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]pyrene	0.15	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Indeno(1,2,3-c,d)pyrene	0.14	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Dibenz[a,h]anthracene	ND	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[g,h,i]perylene	0.13	0.038	EPA 8270D/SIM	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	58	32 - 114				
Pyrene-d10	54	33 - 121				

Project: 0570-133-02

PAHs EPA 8270D/SIM

. .				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B3-3-4					
Laboratory ID:	07-051-04					
Naphthalene	0.37	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
2-Methylnaphthalene	0.26	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
1-Methylnaphthalene	0.20	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthylene	0.077	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthene	0.072	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Fluorene	0.066	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Phenanthrene	0.72	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Anthracene	0.12	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Fluoranthene	0.47	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Pyrene	0.51	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]anthracene	0.23	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Chrysene	0.29	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[b]fluoranthene	0.32	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo(j,k)fluoranthene	0.075	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]pyrene	0.23	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Indeno(1,2,3-c,d)pyrene	0.19	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Dibenz[a,h]anthracene	0.041	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[g,h,i]perylene	0.18	0.0099	EPA 8270D/SIM	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	77	32 - 114				
Pyrene-d10	66	33 - 121				
Terphenyl-d14	81	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

Client ID:					Date	Date	
Laboratory ID:		Result	PQL	Method	Prepared	Analyzed	Flags
Naphthalene 0.25 0.011 EPA 8270D/SIM 7-9-15 7-9-15 2-Methylnaphthalene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 1-Methylnaphthalene 0.29 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Acenaphthylene 0.21 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Acenaphthene 0.17 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluorene 0.18 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Phenanthrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7		P2A-HA1-0-1					
2-Methylnaphthalene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 1-Methylnaphthalene 0.29 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Acenaphthylene 0.21 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Acenaphthene 0.17 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluorene 0.18 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Phenanthrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]althracene 1.2 0.011 EPA 8270D/SIM 7-9-15	ID:	07-051-05					
1-Methylnaphthalene 0.29 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Acenaphthylene 0.21 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Acenaphthene 0.17 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluorene 0.18 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Phenanthrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 </td <td>е</td> <td>0.25</td> <td>0.011</td> <td>EPA 8270D/SIM</td> <td>7-9-15</td> <td>7-9-15</td> <td></td>	е	0.25	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthylene 0.21 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Acenaphthene 0.17 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluorene 0.18 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Phenanthrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-	ohthalene	0.34	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthene 0.17 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluorene 0.18 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Phenanthrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-	ohthalene	0.29	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Fluorene 0.18 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Phenanthrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.64 0.011 EPA 8270D/SIM	/lene	0.21	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Phenanthrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM<	ene	0.17	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Anthracene 0.46 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits		0.18	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Fluoranthene 1.6 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	ne	2.0	0.021	EPA 8270D/SIM	7-9-15	7-10-15	
Pyrene 2.0 0.021 EPA 8270D/SIM 7-9-15 7-10-15 Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114		0.46	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]anthracene 1.0 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo(j,k)fluoranthene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	ıe	1.6	0.021	EPA 8270D/SIM	7-9-15	7-10-15	
Chrysene 1.1 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo(j,k)fluoranthene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114		2.0	0.021	EPA 8270D/SIM	7-9-15	7-10-15	
Benzo[b]fluoranthene 1.2 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo(j,k)fluoranthene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	thracene	1.0	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo(j,k)fluoranthene 0.34 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114		1.1	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]pyrene 0.97 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	oranthene	1.2	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Indeno(1,2,3-c,d)pyrene 0.67 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	uoranthene	0.34	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Dibenz[a,h]anthracene 0.16 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	rene	0.97	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[g,h,i]perylene 0.64 0.011 EPA 8270D/SIM 7-9-15 7-9-15 Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	3-c,d)pyrene	0.67	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
Surrogate: Percent Recovery Control Limits 2-Fluorobiphenyl 56 32 - 114	anthracene	0.16	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
2-Fluorobiphenyl 56 32 - 114	perylene	0.64	0.011	EPA 8270D/SIM	7-9-15	7-9-15	
		Percent Recovery	Control Limits				
Pyrene-d10 50 33 - 121	henyl	56	32 - 114				
. 7.0 0.0	•	50	33 - 121				
Terphenyl-d14 60 31 - 116	114	60	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-0-1					
Laboratory ID:	07-051-06					
Naphthalene	0.85	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
2-Methylnaphthalene	0.90	0.015	EPA 8270D/SIM	7-9-15	7-10-15	
1-Methylnaphthalene	0.59	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthylene	0.051	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthene	0.029	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Fluorene	0.045	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Phenanthrene	0.39	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Anthracene	0.093	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Fluoranthene	0.19	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Pyrene	0.16	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]anthracene	0.099	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Chrysene	0.13	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[b]fluoranthene	0.14	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo(j,k)fluoranthene	0.028	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]pyrene	0.069	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Indeno(1,2,3-c,d)pyrene	0.060	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Dibenz[a,h]anthracene	0.010	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[g,h,i]perylene	0.055	0.0073	EPA 8270D/SIM	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	65	32 - 114				
Pyrene-d10	60	33 - 121				
Torphonyl d11	72	21 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-2-3					
Laboratory ID:	07-051-08					
Naphthalene	0.24	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
2-Methylnaphthalene	0.32	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
1-Methylnaphthalene	0.30	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthylene	0.11	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthene	0.11	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Fluorene	0.13	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Phenanthrene	1.2	0.015	EPA 8270D/SIM	7-9-15	7-10-15	
Anthracene	0.30	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Fluoranthene	0.92	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Pyrene	1.0	0.015	EPA 8270D/SIM	7-9-15	7-10-15	
Benzo[a]anthracene	0.60	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Chrysene	0.65	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[b]fluoranthene	0.62	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo(j,k)fluoranthene	0.17	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]pyrene	0.56	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Indeno(1,2,3-c,d)pyrene	0.36	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Dibenz[a,h]anthracene	0.091	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[g,h,i]perylene	0.33	0.0074	EPA 8270D/SIM	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	71	32 - 114				
Pyrene-d10	67	33 - 121				
Terphenyl-d14	78	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

g,				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-3-4					
Laboratory ID:	07-051-09					
Naphthalene	0.73	0.73	EPA 8270D	7-28-15	7-30-15	
2-Methylnaphthalene	1.1	0.73	EPA 8270D	7-28-15	7-30-15	
1-Methylnaphthalene	1.4	0.73	EPA 8270D	7-28-15	7-30-15	
Acenaphthylene	0.21	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Acenaphthene	0.15	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Fluorene	0.19	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Phenanthrene	3.0	0.73	EPA 8270D	7-28-15	7-30-15	
Anthracene	0.61	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Fluoranthene	2.0	0.73	EPA 8270D	7-28-15	7-30-15	
Pyrene	3.0	0.73	EPA 8270D	7-28-15	7-30-15	
Benzo[a]anthracene	1.1	0.73	EPA 8270D	7-28-15	7-30-15	
Chrysene	1.5	0.73	EPA 8270D	7-28-15	7-30-15	
Benzo[b]fluoranthene	1.0	0.73	EPA 8270D	7-28-15	7-30-15	
Benzo(j,k)fluoranthene	0.36	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Benzo[a]pyrene	0.82	0.73	EPA 8270D	7-28-15	7-30-15	
Indeno[1,2,3-cd]pyrene	0.63	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Dibenz[a,h]anthracene	0.20	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Benzo[g,h,i]perylene	0.59	0.029	EPA 8270D/SIM	7-28-15	7-29-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	35	31 - 110				
Phenol-d6	43	34 - 109				
Nitrobenzene-d5	90	30 - 109				
2-Fluorobiphenyl	88	39 - 103				
2,4,6-Tribromophenol	58	25 - 120				
Terphenyl-d14	80	40 - 117				

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B6-3-4					
Laboratory ID:	07-051-09					
Naphthalene	0.28	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
2-Methylnaphthalene	0.44	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
1-Methylnaphthalene	0.49	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Acenaphthylene	0.087	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Acenaphthene	0.079	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Fluorene	0.14	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Phenanthrene	1.3	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Anthracene	0.27	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Fluoranthene	0.87	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Pyrene	1.0	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Benzo[a]anthracene	0.46	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Chrysene	0.55	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Benzo[b]fluoranthene	0.56	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Benzo(j,k)fluoranthene	0.14	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Benzo[a]pyrene	0.41	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Indeno(1,2,3-c,d)pyrene	0.25	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Dibenz[a,h]anthracene	0.075	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Benzo[g,h,i]perylene	0.24	0.037	EPA 8270D/SIM	7-20-15	7-28-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	21	32 - 114				Q
Pyrene-d10	23	33 - 121				Q
Terphenyl-d14	33	31 - 116				

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	07-051-02 P2A-B3-1-2					
Arsenic	70	12	6010C	7-13-15	7-13-15	
Barium	270	2.9	6010C	7-13-15	7-13-15	
Cadmium	0.67	0.58	6010C	7-13-15	7-13-15	
Chromium	28	0.58	6010C	7-13-15	7-13-15	
Lead	260	5.8	6010C	7-13-15	7-13-15	
Mercury	0.29	0.29	7471B	7-13-15	7-13-15	
Selenium	ND	12	6010C	7-13-15	7-13-15	
Silver	ND	1.2	6010C	7-13-15	7-13-15	
Lab ID:	07-051-04 P2A-B3-3-4					
Arsenic	46	15	6010C	7-13-15	7-13-15	
Barium	410	3.7	6010C	7-13-15	7-13-15	
Cadmium	4.6	0.75	6010C	7-13-15	7-13-15	
Chromium	32	0.75	6010C	7-13-15	7-13-15	
Lead	580	7.5	6010C	7-13-15	7-13-15	
Mercury	1.7	0.75	7471B	7-13-15	7-13-15	
Selenium	ND	15	6010C	7-13-15	7-13-15	
Silver	ND	1.5	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

	3 3 41 /			Data	Data	
Amalada	Denvill	DOL	EDA Marila d	Date	Date	F1
Analyte Lab ID:	Result 07-051-05	PQL	EPA Method	Prepared	Analyzed	Flags
Client ID:	P2A-HA1-0-1					
Arsenic	190	16	6010C	7-13-15	7-13-15	
Barium	250	4.0	6010C	7-13-15	7-13-15	
Cadmium	ND	0.80	6010C	7-13-15	7-13-15	
Chromium	25	0.80	6010C	7-13-15	7-13-15	
_ead	170	8.0	6010C	7-13-15	7-13-15	
Mercury	ND	0.40	7471B	7-13-15	7-13-15	
Selenium	ND	16	6010C	7-13-15	7-13-15	
Silver	ND	1.6	6010C	7-13-15	7-13-15	
_ab ID:	07-051-06					
Client ID:	P2A-B6-0-1					
Arsenic	74	11	6010C	7-13-15	7-13-15	
Barium	420	2.7	6010C	7-13-15	7-13-15	
Cadmium	1.7	0.55	6010C	7-13-15	7-13-15	
Chromium	28	0.55	6010C	7-13-15	7-13-15	
_ead	520	5.5	6010C	7-13-15	7-13-15	
Mercury	0.6	0.27	7471B	7-13-15	7-13-15	
Selenium	ND	11	6010C	7-13-15	7-13-15	
Silver	ND	1.1	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-051-08					
Client ID:	P2A-B6-2-3					
Arsenic	37	11	6010C	7-13-15	7-13-15	
Barium	200	2.8	6010C	7-13-15	7-13-15	
Cadmium	0.67	0.56	6010C	7-13-15	7-13-15	
Chromium	28	0.56	6010C	7-13-15	7-13-15	
Lead	270	5.6	6010C	7-13-15	7-13-15	
Mercury	ND	0.28	7471B	7-13-15	7-13-15	
Selenium	ND	11	6010C	7-13-15	7-13-15	
Silver	ND	1.1	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-051-09					
Client ID:	P2A-B6-3-4					
Arsenic	36	11	6010C	7-21-15	7-21-15	
Lead	420	5.5	6010C	7-21-15	7-21-15	

Date

7-9-15

7-9-15

7-8-15

7-8-15

Date

Date of Report: July 30, 2015 Samples Submitted: July 8, 2015 Laboratory Reference: 1507-051

Project: 0570-133-02

DISSOLVED METALS EPA 200.8/7470A

Matrix: Water Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	07-051-10 P2A-S2-150707					
Arsenic	ND	3.0	200.8	7-8-15	7-9-15	
Barium	ND	25	200.8	7-8-15	7-9-15	
Cadmium	ND	4.0	200.8	7-8-15	7-9-15	
Chromium	ND	10	200.8	7-8-15	7-9-15	
Lead	ND	1.0	200.8	7-8-15	7-9-15	
Mercury	ND	0.50	7470A	7-8-15	7-9-15	
Selenium	ND	5.0	200.8	7-8-15	7-9-15	
Silver	ND	10	200.8	7-8-15	7-9-15	
Lab ID: Client ID:	07-051-11 P2A-S3-150707					
Arsenic	ND	3.0	200.8	7-8-15	7-9-15	
Barium	ND	25	200.8	7-8-15	7-9-15	
Cadmium	ND	4.0	200.8	7-8-15	7-9-15	
Chromium	ND	10	200.8	7-8-15	7-9-15	
Lead	ND	1.0	200.8	7-8-15	7-9-15	
Mercury	ND	0.50	7470A	7-8-15	7-9-15	

200.8

200.8

5.0

10

ND

ND

Selenium

Silver

Project: 0570-133-02

DISSOLVED METALS EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-051-12					
Client ID:	P2A-S1-150707					
Arsenic	ND	3.0	200.8	7-8-15	7-9-15	
Barium	ND	25	200.8	7-8-15	7-9-15	
Cadmium	ND	4.0	200.8	7-8-15	7-9-15	
Chromium	ND	10	200.8	7-8-15	7-9-15	
Lead	ND	1.0	200.8	7-8-15	7-9-15	
Mercury	ND	0.50	7470A	7-8-15	7-9-15	
Selenium	ND	5.0	200.8	7-8-15	7-9-15	
Silver	ND	10	200.8	7-8-15	7-9-15	

Project: 0570-133-02

NWTPH-HCID QUALITY CONTROL

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK				•	•	
Laboratory ID:	MB0709S3					
Gasoline Range Organics	ND	20	NWTPH-HCID	7-9-15	7-9-15	
Diesel Range Organics	ND	50	NWTPH-HCID	7-9-15	7-9-15	
Lube Oil Range Organics	ND	100	NWTPH-HCID	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				

Project: 0570-133-02

NWTPH-Gx QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0710W1					
Gasoline	ND	100	NWTPH-Gx	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	94	71-113				

					Source	Perc	ent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	07-06	64-01									
	ORIG	DUP									
Gasoline	ND	ND	NA	NA		N.	A	NA	NA	30	
Surrogate:											
Fluorobenzene						91	91	71-113			

Project: 0570-133-02

NWTPH-Gx QUALITY CONTROL

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0716S1					
Gasoline	ND	5.0	NWTPH-Gx	7-16-15	7-16-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	68-123				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	07-09	99-01								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Eluorobenzene						04 08	68-122			

Project: 0570-133-02

NWTPH-Dx QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0713W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	7-13-15	7-13-15	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				

Analysta	Po	sult	Snika	Lovol	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flogs
Analyte DUPLICATE	Res	Suit	Эріке	Level	Resuit	Recovery	Lillits	KPD	LIIIII	Flags
Laboratory ID:	07-07	77-02								
	ORIG	DUP								
Diesel Range Organics	0.387	0.376	NA	NA		NA	NA	3	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						84 80	50-150			

Project: 0570-133-02

NWTPH-Dx **QUALITY CONTROL**

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						_
Laboratory ID:	MB0714S2					
Diesel Range Organics	ND	25	NWTPH-Dx	7-14-15	7-14-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				_
o-Terphenyl	111	50-150				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	07-0	51-02								
	ORIG	DUP								
Diesel Range Organics	272	194	NA	NA		NA	NA	33	NA	
Lube Oil	1800	1260	NA	NA		NA	NA	35	NA	
Surrogate:										
o-Terphenyl						77 71	50-150			

Project: 0570-133-02

NWTPH-Dx QUALITY CONTROL

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK		•				
Laboratory ID:	MB0720S2					
Diesel Range Organics	ND	25	NWTPH-Dx	7-20-15	7-20-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-20-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	89	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	07-1	15-04								
	ORIG	DUP								
Diesel Range Organics	182	43.0	NA	NA		NA	NA	124	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						87 85	50-150			

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 1 of 2

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0709W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloromethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Vinyl Chloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroethane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Acetone	ND	5.0	EPA 8260C	7-9-15	7-9-15	
lodomethane	ND	1.3	EPA 8260C	7-9-15	7-9-15	
Carbon Disulfide	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methylene Chloride	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Vinyl Acetate	ND	1.0	EPA 8260C	7-9-15	7-9-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Butanone	ND	5.0	EPA 8260C	7-9-15	7-9-15	
Bromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chloroform	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Benzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Trichloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Dibromomethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromodichloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	7-9-15	7-9-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Toluene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
(trails) 1,5 Diomoroproperie	ND	0.20	L1 / (02000	7 0 10	7 0 10	

Project: 0570-133-02

Toluene-d8

4-Bromofluorobenzene

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 2 of 2

Analyta	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Analyte	Result	PQL	Metrioa	Frepareu	Allalyzeu	riays
Laboratory ID:	MB0709W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Tetrachloroethene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Hexanone	ND	2.0	EPA 8260C	7-9-15	7-9-15	
Dibromochloromethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Chlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Ethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
m,p-Xylene	ND	0.40	EPA 8260C	7-9-15	7-9-15	
o-Xylene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Styrene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromoform	ND	1.0	EPA 8260C	7-9-15	7-9-15	
Isopropylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Bromobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Propylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
n-Butylbenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Naphthalene	ND	1.0	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	79-131				
onioniuoromethane	105	19-131				

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

80-120

80-120

99

98

Project: 0570-133-02

VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

					Per	cent	Recovery		RPD	
Analyte	Result		Spike Level		Rec	Recovery		RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	09W1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.91	9.88	10.0	10.0	99	99	64-138	0	16	
Benzene	10.5	10.3	10.0	10.0	105	103	76-125	2	14	
Trichloroethene	10.4	9.49	10.0	10.0	104	95	70-125	9	16	
Toluene	11.0	10.3	10.0	10.0	110	103	75-125	7	15	
Chlorobenzene	10.4	9.88	10.0	10.0	104	99	80-140	5	15	
Surrogate:										
Dibromofluoromethane					96	98	79-131			
Toluene-d8					99	97	80-120			
4-Bromofluorobenzene					94	95	80-120			

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 1 of 2

Offics. Hig/kg				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	
Laboratory ID:	MB0709S1						
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Chloromethane	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
Vinyl Chloride	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Bromomethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Chloroethane	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Acetone	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
Iodomethane	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
Carbon Disulfide	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Methylene Chloride	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Vinyl Acetate	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
2-Butanone	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
Bromochloromethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Chloroform	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Benzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Trichloroethene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Dibromomethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Bromodichloromethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
Toluene	ND	0.0050	EPA 8260C	7-9-15	7-9-15		
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-9-15	7-9-15		

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MD070004					
Laboratory ID:	MB0709S1 ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,1,2-Trichloroethane Tetrachloroethene	ND ND	0.0010	EPA 8260C	7-9-15 7-9-15	7-9-15 7-9-15	
1,3-Dichloropropane 2-Hexanone	ND ND	0.0010	EPA 8260C	7-9-15	7-9-15	
		0.0050	EPA 8260C	7-9-15	7-9-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Chlorobenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Ethylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
m,p-Xylene	ND	0.0020	EPA 8260C	7-9-15	7-9-15	
o-Xylene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Styrene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Bromoform	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Isopropylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Bromobenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
n-Propylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
tert-Butylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
sec-Butylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
n-Butylbenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,2-Dibromo-3-chloropropane		0.0050	EPA 8260C	7-9-15	7-9-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-9-15	7-9-15	
Naphthalene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits			. 5 10	
Dibromofluoromethane	118	76-131				
Toluene-d8	107	82-129				
4-Bromofluorobenzene	107	79-126				
- DIOITIONIUOIODENZENE	101	13-120				

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 1 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0710S1						
Dichlorodifluoromethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Chloromethane	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Vinyl Chloride	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Bromomethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Chloroethane	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Trichlorofluoromethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,1-Dichloroethene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Acetone	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Iodomethane	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Carbon Disulfide	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Methylene Chloride	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
(trans) 1,2-Dichloroethene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Methyl t-Butyl Ether	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,1-Dichloroethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Vinyl Acetate	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
2,2-Dichloropropane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
(cis) 1,2-Dichloroethene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
2-Butanone	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Bromochloromethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Chloroform	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,1,1-Trichloroethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Carbon Tetrachloride	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,1-Dichloropropene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Benzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2-Dichloroethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Trichloroethene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2-Dichloropropane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Dibromomethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Bromodichloromethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
2-Chloroethyl Vinyl Ether	ND	0.0070		EPA 8260C	7-10-15	7-10-15	
(cis) 1,3-Dichloropropene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Methyl Isobutyl Ketone	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Toluene	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
(trans) 1,3-Dichloropropene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0710S1	0.0040		EDA 20000	7.40.45	7.40.45	
1,1,2-Trichloroethane	ND	0.0010	0.00000	EPA 8260C	7-10-15	7-10-15	
Tetrachloroethene	ND	0.0010	0.00029	EPA 8260C	7-10-15	7-10-15	
1,3-Dichloropropane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
2-Hexanone	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Dibromochloromethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromoethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Chlorobenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,1,1,2-Tetrachloroethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Ethylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
m,p-Xylene	ND	0.0020		EPA 8260C	7-10-15	7-10-15	
o-Xylene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Styrene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Bromoform	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Isopropylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Bromobenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,1,2,2-Tetrachloroethane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichloropropane	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
n-Propylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
2-Chlorotoluene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
4-Chlorotoluene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,3,5-Trimethylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
tert-Butylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2,4-Trimethylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
sec-Butylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,3-Dichlorobenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
p-Isopropyltoluene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,4-Dichlorobenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2-Dichlorobenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
n-Butylbenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2-Dibromo-3-chloropropane	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
1,2,4-Trichlorobenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Hexachlorobutadiene	ND	0.0050		EPA 8260C	7-10-15	7-10-15	
Naphthalene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
1,2,3-Trichlorobenzene	ND	0.0010		EPA 8260C	7-10-15	7-10-15	
Surrogate:	Percent Recovery	Control Limits		_: /: 02000			
Dibromofluoromethane	115	76-131					
Toluene-d8	108	82-129					
4-Bromofluorobenzene	107	79-126					
		.0 120					

Project: 0570-133-02

VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Result		Spike Level		Rece	Recovery		RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	09S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0562	0.0558	0.0500	0.0500	112	112	66-129	1	15	
Benzene	0.0551	0.0545	0.0500	0.0500	110	109	71-123	1	15	
Trichloroethene	0.0505	0.0514	0.0500	0.0500	101	103	75-115	2	15	
Toluene	0.0539	0.0533	0.0500	0.0500	108	107	75-120	1	15	
Chlorobenzene	0.0512	0.0492	0.0500	0.0500	102	98	75-121	4	15	
Surrogate:										
Dibromofluoromethane					108	102	76-131			
Toluene-d8					102	100	82-129			
4-Bromofluorobenzene					103	97	79-126			

Project: 0570-133-02

VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Result		Spike Level		Rece	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	10S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0569	0.0603	0.0500	0.0500	114	121	66-129	6	15	
Benzene	0.0565	0.0600	0.0500	0.0500	113	120	71-123	6	15	
Trichloroethene	0.0499	0.0521	0.0500	0.0500	100	104	75-115	4	15	
Toluene	0.0527	0.0520	0.0500	0.0500	105	104	75-120	1	15	
Chlorobenzene	0.0497	0.0498	0.0500	0.0500	99	100	75-121	0	15	
Surrogate:										
Dibromofluoromethane					102	109	76-131			
Toluene-d8					96	99	82-129			
4-Bromofluorobenzene					94	98	79-126			

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260B METHOD BLANK QUALITY CONTROL

Page 1 of 2

Omio. mg/ng					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Labarrataria ID:	MD070004						
Laboratory ID:	MB0720S1	0.0040			7.00.45	7.00.45	
Dichlorodifluoromethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Chloromethane	ND	0.0050		EPA 8260C	7-20-15	7-20-15	
Vinyl Chloride	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Bromomethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Chloroethane	ND	0.0050		EPA 8260C	7-20-15	7-20-15	
Trichlorofluoromethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,1-Dichloroethene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
lodomethane	ND	0.0050		EPA 8260C	7-20-15	7-20-15	
Methylene Chloride	ND	0.0050		EPA 8260C	7-20-15	7-20-15	
(trans) 1,2-Dichloroethene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,1-Dichloroethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
2,2-Dichloropropane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
(cis) 1,2-Dichloroethene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Bromochloromethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Chloroform	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,1,1-Trichloroethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Carbon Tetrachloride	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,1-Dichloropropene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,2-Dichloroethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Trichloroethene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,2-Dichloropropane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Dibromomethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Bromodichloromethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
2-Chloroethyl Vinyl Ether	ND	0.0050		EPA 8260C	7-20-15	7-20-15	
(cis) 1,3-Dichloropropene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
(trans) 1,3-Dichloropropene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
(alane) 1,0 Diomoroproperio	110	0.0010		_1 / (02000	. 20 10	. 20 10	

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260B METHOD BLANK QUALITY CONTROL

Page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0720S1						
1,1,2-Trichloroethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Tetrachloroethene	ND	0.0010	0.00029	EPA 8260C	7-20-15	7-20-15	
1,3-Dichloropropane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Dibromochloromethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,2-Dibromoethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Chlorobenzene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,1,1,2-Tetrachloroethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Bromoform	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Bromobenzene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,1,2,2-Tetrachloroethane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,2,3-Trichloropropane	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
2-Chlorotoluene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
4-Chlorotoluene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,3-Dichlorobenzene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,4-Dichlorobenzene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,2-Dichlorobenzene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
1,2-Dibromo-3-chloropropane	ND	0.0050		EPA 8260C	7-20-15	7-20-15	
1,2,4-Trichlorobenzene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Hexachlorobutadiene	ND	0.0050		EPA 8260C	7-20-15	7-20-15	
1,2,3-Trichlorobenzene	ND	0.0010		EPA 8260C	7-20-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits					
Dibromofluoromethane	107	76-131					
Toluene-d8	107	82-129					
4-Bromofluorobenzene	106	79-126					

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260B SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Result		Spike Level		Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	20S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0439	0.0448	0.0500	0.0500	88	90	66-129	2	15	
Benzene	0.0462	0.0467	0.0500	0.0500	92	93	71-123	1	15	
Trichloroethene	0.0486	0.0498	0.0500	0.0500	97	100	75-115	2	15	
Toluene	0.0497	0.0512	0.0500	0.0500	99	102	75-120	3	15	
Chlorobenzene	0.0482	0.0487	0.0500	0.0500	96	97	75-121	1	15	
Surrogate:										
Dibromofluoromethane					99	105	76-131			
Toluene-d8					98	105	82-129			
4-Bromofluorobenzene					96	103	79-126			

Project: 0570-133-02

PAHS EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0709S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	7-9-15	7-9-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	100	32 - 114				
Pyrene-d10	85	33 - 121				
Terphenyl-d14	93	31 - 116				

Project: 0570-133-02

PAHS EPA 8270D/SIM SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Reco	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	'09S1								
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0664	0.0683	0.0833	0.0833	80	82	63 - 113	3	19	
Acenaphthylene	0.0710	0.0734	0.0833	0.0833	85	88	61 - 125	3	16	
Acenaphthene	0.0707	0.0728	0.0833	0.0833	85	87	66 - 113	3	16	
Fluorene	0.0682	0.0771	0.0833	0.0833	82	93	60 - 117	12	16	
Phenanthrene	0.0660	0.0741	0.0833	0.0833	79	89	63 - 116	12	12	
Anthracene	0.0797	0.0893	0.0833	0.0833	96	107	66 - 146	11	19	
Fluoranthene	0.0666	0.0749	0.0833	0.0833	80	90	60 - 125	12	13	
Pyrene	0.0643	0.0721	0.0833	0.0833	77	87	66 - 126	11	15	
Benzo[a]anthracene	0.0701	0.0740	0.0833	0.0833	84	89	60 - 128	5	15	
Chrysene	0.0680	0.0717	0.0833	0.0833	82	86	60 - 117	5	13	
Benzo[b]fluoranthene	0.0662	0.0760	0.0833	0.0833	79	91	60 - 131	14	16	
Benzo(j,k)fluoranthene	0.0707	0.0696	0.0833	0.0833	85	84	57 - 126	2	20	
Benzo[a]pyrene	0.0694	0.0731	0.0833	0.0833	83	88	62 - 136	5	16	
Indeno(1,2,3-c,d)pyrene	0.0691	0.0728	0.0833	0.0833	83	87	60 - 127	5	19	
Dibenz[a,h]anthracene	0.0683	0.0730	0.0833	0.0833	82	88	62 - 133	7	22	
Benzo[g,h,i]perylene	0.0687	0.0725	0.0833	0.0833	82	87	63 - 129	5	22	
Surrogate:										
2-Fluorobiphenyl					80	94	32 - 114			
Pyrene-d10					80	90	33 - 121			
Terphenyl-d14					84	89	31 - 116			

Project: 0570-133-02

PAHS EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0720S1					
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
ND	0.0067	EPA 8270D/SIM	7-20-15	7-21-15	
Percent Recovery	Control Limits				
78	32 - 114				
93	33 - 121				
93	31 - 116				
	MB0720S1 ND	ND 0.0067 Percent Recovery Control Limits 78 32 - 114 93 33 - 121	ND 0.0067 EPA 8270D/SIM ND 0.0067 EPA 8	Result PQL Method Prepared MB0720S1 ND 0.0067 EPA 8270D/SIM 7-20-15 ND 0.0067 EPA 8270D/SIM 7-20-15	Result PQL Method Prepared Analyzed MB0720S1 MB0720S1 FPA 8270D/SIM 7-20-15 7-21-15 ND 0.0067 EPA 8270D/SIM 7-20-15 7-21-15 ND<

Project: 0570-133-02

PAHS EPA 8270D/SIM SB/SBD QUALITY CONTROL

					P	ercent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Re	covery	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	'20S1								
	SB	SBD	SB	SBD	SE	SBD)			
Naphthalene	0.0645	0.0705	0.0833	0.0833	77	85	63 - 113	9	19	
Acenaphthylene	0.0716	0.0751	0.0833	0.0833	86	90	61 - 125	5	16	
Acenaphthene	0.0714	0.0718	0.0833	0.0833	86	86	66 - 113	1	16	
Fluorene	0.0679	0.0714	0.0833	0.0833	82	86	60 - 117	5	16	
Phenanthrene	0.0683	0.0715	0.0833	0.0833	82	86	63 - 116	5	12	
Anthracene	0.0819	0.0861	0.0833	0.0833	98	103	66 - 146	5	19	
Fluoranthene	0.0665	0.0709	0.0833	0.0833	80	85	60 - 125	6	13	
Pyrene	0.0631	0.0684	0.0833	0.0833	76	82	66 - 126	8	15	
Benzo[a]anthracene	0.0718	0.0758	0.0833	0.0833	86	91	60 - 128	5	15	
Chrysene	0.0641	0.0688	0.0833	0.0833	77	83	60 - 117	7	13	
Benzo[b]fluoranthene	0.0668	0.0720	0.0833	0.0833	80	86	60 - 131	7	16	
Benzo(j,k)fluoranthene	0.0619	0.0672	0.0833	0.0833	74	81	57 - 126	8	20	
Benzo[a]pyrene	0.0665	0.0712	0.0833	0.0833	80	85	62 - 136	7	16	
Indeno(1,2,3-c,d)pyrene	0.0687	0.0731	0.0833	0.0833	82	88	60 - 127	6	19	
Dibenz[a,h]anthracene	0.0710	0.0757	0.0833	0.0833	85	91	62 - 133	6	22	
Benzo[g,h,i]perylene	0.0648	0.0702	0.0833	0.0833	78	84	63 - 129	8	22	
Surrogate:										
2-Fluorobiphenyl					76	78	32 - 114			
Pyrene-d10					85	5 89	33 - 121			
Terphenyl-d14					88	93	31 - 116			

Project: 0570-133-02

PAHS EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0728S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	7-28-15	7-28-15	
Surrogate:	Percent Recovery	Control Limits				_
2-Fluorophenol	64	31 - 110				
Phenol-d6	63	34 - 109				
Nitrobenzene-d5	64	30 - 109				
2-Fluorobiphenyl	67	39 - 103				
2,4,6-Tribromophenol	72	25 - 120				
Terphenyl-d14	71	40 - 117				

Project: 0570-133-02

PAHS EPA 8270D/SIM SB/SBD QUALITY CONTROL

				Pe	rcent	Recovery		RPD	
Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SB07	28S1								
SB	SBD	SB	SBD	SB	SBD				
0.904	0.936	1.33	1.33	68	70	55 - 105	3	25	
0.954	0.968	1.33	1.33	72	73	56 - 102	1	30	
0.467	0.454	0.667	0.667	70	68	49 - 99	3	35	
0.451	0.471	0.667	0.667	68	71	52 - 102	4	26	
0.466	0.477	0.667	0.667	70	72	49 - 110	2	30	
1.03	1.10	1.33	1.33	77	83	59 - 113	7	22	
0.463	0.481	0.667	0.667	69	72	52 - 103	4	22	
1.36	1.39	1.33	1.33	102	105	51 - 125	2	23	
0.483	0.511	0.667	0.667	72	77	53 - 118	6	23	
1.09	1.15	1.33	1.33	82	86	25 - 141	5	39	
0.504	0.510	0.667	0.667	76	76	57 - 120	1	20	
				56	55	31 - 110			
				56	56	34 - 109			
				53	54	30 - 109			
				59	59	39 - 103			
				62	63	25 - 120			
				63	62	40 - 117			
	SB07 SB 0.904 0.954 0.467 0.451 0.466 1.03 0.463 1.36 0.483 1.09	0.904 0.936 0.954 0.968 0.467 0.454 0.451 0.471 0.466 0.477 1.03 1.10 0.463 0.481 1.36 1.39 0.483 0.511 1.09 1.15	SB0728S1 SB SBD SB 0.904 0.936 1.33 0.954 0.968 1.33 0.467 0.454 0.667 0.451 0.471 0.667 0.466 0.477 0.667 1.03 1.10 1.33 0.463 0.481 0.667 1.36 1.39 1.33 0.483 0.511 0.667 1.09 1.15 1.33	SB0728S1 SB SBD SB SBD 0.904 0.936 1.33 1.33 0.954 0.968 1.33 1.33 0.467 0.454 0.667 0.667 0.451 0.471 0.667 0.667 0.466 0.477 0.667 0.667 1.03 1.10 1.33 1.33 0.463 0.481 0.667 0.667 1.36 1.39 1.33 1.33 0.483 0.511 0.667 0.667 1.09 1.15 1.33 1.33	Result Spike Level Rec SB0728S1 SB SBD SB 0.904 0.936 1.33 1.33 68 0.954 0.968 1.33 1.33 72 0.467 0.454 0.667 0.667 70 0.451 0.471 0.667 0.667 68 0.466 0.477 0.667 0.667 70 1.03 1.10 1.33 1.33 77 0.463 0.481 0.667 0.667 69 1.36 1.39 1.33 1.33 102 0.483 0.511 0.667 0.667 72 1.09 1.15 1.33 1.33 82 0.504 0.510 0.667 0.667 76	SB0728S1 SB SBD SB SBD SB SBD 0.904 0.936 1.33 1.33 68 70 0.954 0.968 1.33 1.33 72 73 0.467 0.454 0.667 0.667 70 68 0.451 0.471 0.667 0.667 68 71 0.466 0.477 0.667 0.667 70 72 1.03 1.10 1.33 1.33 77 83 0.463 0.481 0.667 0.667 69 72 1.36 1.39 1.33 1.33 102 105 0.483 0.511 0.667 0.667 72 77 1.09 1.15 1.33 1.33 82 86 0.504 0.510 0.667 0.667 76 76 76 56 56 56 56 56 56 56 <t< td=""><td>Result Spike Level Recovery Limits SB0728S1 SBD SBD SB SBD SB SBD 0.904 0.936 1.33 1.33 68 70 55-105 0.954 0.968 1.33 1.33 72 73 56-102 0.467 0.454 0.667 0.667 70 68 49-99 0.451 0.471 0.667 0.667 68 71 52-102 0.466 0.477 0.667 0.667 70 72 49-110 1.03 1.10 1.33 1.33 77 83 59-113 0.463 0.481 0.667 0.667 69 72 52-103 1.36 1.39 1.33 1.33 102 105 51-125 0.483 0.511 0.667 0.667 72 77 53-118 1.09 1.15 1.33 1.33 82 86 25-141</td><td>Result Spike Level Recovery Limits RPD SB0728S1 SB SBD SB SBD SB SBD 0.904 0.936 1.33 1.33 68 70 55 - 105 3 0.954 0.968 1.33 1.33 72 73 56 - 102 1 0.467 0.454 0.667 0.667 70 68 49 - 99 3 0.451 0.471 0.667 0.667 68 71 52 - 102 4 0.466 0.477 0.667 0.667 70 72 49 - 110 2 1.03 1.10 1.33 1.33 77 83 59 - 113 7 0.463 0.481 0.667 0.667 69 72 52 - 103 4 1.36 1.39 1.33 1.33 102 105 51 - 125 2 0.483 0.511 0.667</td><td>Result Spike Level Recovery Limits RPD Limits SB0728S1 SB SBD SBD SB 36 100 <th< td=""></th<></td></t<>	Result Spike Level Recovery Limits SB0728S1 SBD SBD SB SBD SB SBD 0.904 0.936 1.33 1.33 68 70 55-105 0.954 0.968 1.33 1.33 72 73 56-102 0.467 0.454 0.667 0.667 70 68 49-99 0.451 0.471 0.667 0.667 68 71 52-102 0.466 0.477 0.667 0.667 70 72 49-110 1.03 1.10 1.33 1.33 77 83 59-113 0.463 0.481 0.667 0.667 69 72 52-103 1.36 1.39 1.33 1.33 102 105 51-125 0.483 0.511 0.667 0.667 72 77 53-118 1.09 1.15 1.33 1.33 82 86 25-141	Result Spike Level Recovery Limits RPD SB0728S1 SB SBD SB SBD SB SBD 0.904 0.936 1.33 1.33 68 70 55 - 105 3 0.954 0.968 1.33 1.33 72 73 56 - 102 1 0.467 0.454 0.667 0.667 70 68 49 - 99 3 0.451 0.471 0.667 0.667 68 71 52 - 102 4 0.466 0.477 0.667 0.667 70 72 49 - 110 2 1.03 1.10 1.33 1.33 77 83 59 - 113 7 0.463 0.481 0.667 0.667 69 72 52 - 103 4 1.36 1.39 1.33 1.33 102 105 51 - 125 2 0.483 0.511 0.667	Result Spike Level Recovery Limits RPD Limits SB0728S1 SB SBD SBD SB 36 100 <th< td=""></th<>

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B METHOD BLANK QUALITY CONTROL

Date Extracted: 7-13-15
Date Analyzed: 7-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0713SM1&MB0713S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B DUPLICATE QUALITY CONTROL

Date Extracted: 7-13-15
Date Analyzed: 7-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-077-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	67.8	67.0	1	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	25.1	24.7	2	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B MS/MSD QUALITY CONTROL

Date Extracted: 7-13-15
Date Analyzed: 7-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-077-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	83.6	84	86.1	86	3	
Barium	100	158	90	161	94	2	
Cadmium	50.0	45.0	90	45.3	91	1	
Chromium	100	118	93	117	92	0	
Lead	250	219	88	222	89	2	
Mercury	0.500	0.495	99	0.509	102	3	
Selenium	100	78.6	79	79.4	79	1	
Silver	25.0	20.3	81	20.7	83	2	

Project: 0570-133-02

TOTAL METALS EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted: 7-21-15
Date Analyzed: 7-21-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0721SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Lead	6010C	ND	5.0

Project: 0570-133-02

TOTAL METALS EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted: 7-21-15
Date Analyzed: 7-21-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-155-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Lead	ND	ND	NA	5.0	

Project: 0570-133-02

TOTAL METALS EPA 6010C MS/MSD QUALITY CONTROL

Date Extracted: 7-21-15
Date Analyzed: 7-21-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-155-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	86.5	87	92.9	93	7	
Lead	250	219	87	234	94	7	

Project: 0570-133-02

DISSOLVED METALS EPA 200.8/7470A METHOD BLANK QUALITY CONTROL

Date Filtered: 7-8-15
Date Analyzed: 7-9-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0708F1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Barium	200.8	ND	25
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50
Selenium	200.8	ND	5.0
Silver	200.8	ND	10

Project: 0570-133-02

DISSOLVED METALS EPA 200.8/7470A DUPLICATE QUALITY CONTROL

Date Analyzed: 7-9-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 07-045-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	29.4	27.5	7	3.0	
Barium	48.8	46.1	6	25	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.50	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	10	

Project: 0570-133-02

DISSOLVED METALS EPA 200.8/7470A MS/MSD QUALITY CONTROL

Date Analyzed: 7-9-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 07-045-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	80.0	110	101	111	102	1	
Barium	80.0	127	98	128	99	1	
Cadmium	80.0	79.6	99	79.1	99	1	
Chromium	80.0	77.3	97	79.1	99	2	
Lead	80.0	75.9	95	76	95	0	
Mercury	12.5	11.4	91	11.7	93	3	
Selenium	80.0	88.2	110	89.1	111	1	
Silver	80.0	71.9	90	72.9	91	1	

Date of Report: July 30, 2015 Samples Submitted: July 8, 2015 Laboratory Reference: 1507-051 Project: 0570-133-02

% MOISTURE

Date Analyzed: 7-9&20-15

Client ID	Lab ID	% Moisture
P2A-B3-1-2	07-051-02	13
P2A-B3-2-3	07-051-03	24
P2A-B3-3-4	07-051-04	33
P2A-HA1-0-1	07-051-05	38
P2A-B6-0-1	07-051-06	9
P2A-B6-2-3	07-051-08	10
P2A-B6-3-4	07-051-09	9



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical _____
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



Inc. Turnaround Requ

Chain of Custody

Turnaround Request (in working days)	
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14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com conject Number	(In working days) (Check One) Same Day	1 Day	Laboratory Number:	SIM		
Project Name: PLT HASE 2A Project Manager:	Standard (7 Days) (TPH analysis 5 Days)	ntainers	(1,21)	270D/SIM PAHs) IM (low-level) Pesticides 80 rus Pesticides 8	etals rease) 1664A	RE RUI
0	(other)		H-Gx/B7 H-Gx H-Dx s 82600	w-level 270D/S 082A chlorine	oil and g	DI
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S 124-135-2-3	2118	9 NOS	•		*	0
4 (2A-153-3-4)	0935	501 6Q	(X)	8	8	\
5 PZA-HAI-G-1	1000	SOIC 100	0	8	*	1
6 PZR-B6-0-1	1055	501 100	000	8	*	
7 824-156-1-2	1105	5016			×	
8 974-510-2-3	BEI	801 POS	000	X	*	1
9 (7A-BLO-3-C)) 1135	5010 10	0	•	*	700
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Turnaround Request **Chain of Custody** Laboratory Number:

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ab ID Sample Identification	Date Time Sampled Sampled Matrix		NWTPI Volatile Haloge Semivo	PAHs 8 PCBs 8 Organo	Total F		% Moi
1 1 12A-53-150707	7/17/15 1315 WATER	8	メメ			_	
12/124-51-150707	7/4/5/255 WAREN	10	ナメメ			+	
Signature	Company	Date	Time	Comments/Special Instructions	structions		
Relinquished) GROBNAINE	NS 719	15/ 0850				
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Relinquished							
Received							
Reviewed/Date	Reviewed/Date			Chromatograms with final report	n final report		

Data Package: Standard | Level III | Level IV |

Electronic Data Deliverables (EDDs) [] .



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 29, 2015

Tricia DeOme GeoEngineers, Inc. 1101 Fawcett Avenue South, Suite 200 Tacoma, WA 98402

Re: Analytical Data for Project 0570-133-02

Laboratory Reference No. 1507-071

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on July 9, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Project: 0570-133-02

Case Narrative

Samples were collected on July 8, 2015 and received by the laboratory on July 9, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Some MTCA Method A cleanup levels are non-achievable for samples P2A-B9-1-2, P2A-B7-1-2, P2A-B5-1-2, and P2A-B1-0-1 due to sample matrix effects.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Project: 0570-133-02

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
P2A-B10-1-2	07-071-02	Soil	7-8-15	7-9-15	
P2A-B10-3-4	07-071-04	Soil	7-8-15	7-9-15	
P2A-B9-1-2	07-071-06	Soil	7-8-15	7-9-15	
P2A-B9-3-4	07-071-08	Soil	7-8-15	7-9-15	
P2A-B8-0-1	07-071-10	Soil	7-8-15	7-9-15	
P2A-B8-2-3	07-071-12	Soil	7-8-15	7-9-15	
P2A-B7-1-2	07-071-15	Soil	7-8-15	7-9-15	
P2A-B7-3-4	07-071-17	Soil	7-8-15	7-9-15	
P2A-B5-1-2	07-071-19	Soil	7-8-15	7-9-15	
P2A-B5-3-4	07-071-21	Soil	7-8-15	7-9-15	
P2A-B4-0-1	07-071-22	Soil	7-8-15	7-9-15	
P2A-B4-1-2	07-071-23	Soil	7-8-15	7-9-15	
P2A-B4-3-4	07-071-25	Soil	7-8-15	7-9-15	
P2A-B2-1-2	07-071-27	Soil	7-8-15	7-9-15	
P2A-B2-3-4	07-071-29	Soil	7-8-15	7-9-15	
P2A-B1-0-1	07-071-30	Soil	7-8-15	7-9-15	
P2A-B1-1-2	07-071-31	Soil	7-8-15	7-9-15	

Project: 0570-133-02

NWTPH-HCID

Matrix: Soil

Analyta	Result	PQL	Method	Date Prepared	Date Analyzed	Flogs
Analyte Client ID:	P2A-B10-1-2	FQL	Wethou	Frepareu	Allalyzeu	Flags
Laboratory ID:	07-071-02					
Gasoline Range Organics	ND	23	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	59	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	111	50-150				
Client ID:	P2A-B9-1-2					
Laboratory ID:	07-071-06					
Gasoline Range Organics	ND	25	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	62	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil	Detected	120	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	107	50-150				
, ,						
Client ID:	P2A-B8-0-1					
Laboratory ID:	07-071-10					
Gasoline Range Organics	ND	21	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	52	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil	Detected	100	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	109	50-150				
Client ID:	P2A-B8-2-3					
Laboratory ID:	07-071-12					
Gasoline Range Organics	ND	22	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	55	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	107	50-150				
Client ID:	P2A-B7-1-2					
Laboratory ID:	07-071-15					
Gasoline Range Organics	ND	23	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	Detected	56	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil	Detected	110	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:						
o-Terphenyl	Percent Recovery	Control Limits				

Project: 0570-133-02

NWTPH-HCID

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B5-1-2					
Laboratory ID:	07-071-19					
Gasoline Range Organics	ND	30	NWTPH-HCID	7-13-15	7-14-15	U1
Diesel Range Organics	ND	59	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil	Detected	120	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	122	50-150				
Client ID:	P2A-B4-0-1					
Laboratory ID:	07-071-22					
Gasoline Range Organics	ND	30	NWTPH-HCID	7-13-15	7-14-15	U1
Diesel Range Organics	Detected	55	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil	Detected	110	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	124	50-150				
Client ID:	P2A-B4-1-2					
Laboratory ID:	07-071-23					
Gasoline Range Organics	ND	23	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	58	NWTPH-HCID	7-13-15 7-13-15	7-14-15 7-14-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	7-13-15 7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits	144411111012	7 10 10	7 11 10	
o-Terphenyl	106	50-150				
o respiration	700	00 700				
Client ID:	P2A-B2-1-2					
Laboratory ID:	07-071-27					
Gasoline Range Organics	ND	25	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	62	NWTPH-HCID	7-13-15 7-13-15	7-1 4 -15 7-14-15	
Lube Oil	Detected	120	NWTPH-HCID	7-13-15 7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits	144411111010	7 10 10	7 11 10	
o-Terphenyl	111	50-150				
o roiphonyr	,,,	00 700				
Client ID:	P2A-B1-0-1					
Laboratory ID:	07-071-30					
	ND	22	NWTPH-HCID	7-13-15	7-14-15	
Gasoline Range Organics	ND ND	23 59	NWTPH-HCID	7-13-15 7-13-15	7-14-15 7-14-15	
Diesel Range Organics		59 120	_			
Lube Oil	Detected		NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	112	50-150				

Date of Report: July 29, 2015 Samples Submitted: July 9, 2015 Laboratory Reference: 1507-071 Project: 0570-133-02

NWTPH-HCID

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	P2A-B1-1-2	. 42	Motriou	1 Toparou	Analyzou	i iugo
Laboratory ID:	07-071-31					
Gasoline Range Organics	ND	25	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	62	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil Range Organics	ND	130	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	113	50-150				

Project: 0570-133-02

NWTPH-Dx

Matrix: Soil

Offits. Hig/Kg (ppm)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B9-1-2					
Laboratory ID:	07-071-06					
Diesel Range Organics	190	31	NWTPH-Dx	7-21-15	7-20-15	
Lube Oil Range Organics	350	62	NWTPH-Dx	7-21-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	81	50-150				
Client ID:	P2A-B8-0-1					
Laboratory ID:	07-071-10					
Diesel Range Organics	56	26	NWTPH-Dx	7-21-15	7-20-15	
Lube Oil Range Organics	150	52	NWTPH-Dx	7-21-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	82	50-150				
Client ID:	P2A-B7-1-2					
Laboratory ID:	07-071-15					
Diesel Range Organics	140	28	NWTPH-Dx	7-21-15	7-20-15	N
Lube Oil Range Organics	510	56	NWTPH-Dx	7-21-15	7-20-15	.,
Surrogate:	Percent Recovery	Control Limits			0 .0	
o-Terphenyl	69	50-150				
Client ID:	P2A-B5-1-2					
Laboratory ID:	07-071-19					
Diesel Range Organics	100	29	NWTPH-Dx	7-21-15	7-20-15	
Lube Oil Range Organics	220	59	NWTPH-Dx	7-21-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	85	50-150				
Client ID:	D2A D4 0 4					
	P2A-B4-0-1 07-071-22					
Laboratory ID:	310	140	NWTPH-Dx	7-21-15	7-21-15	N I
Diesel Range Organics Lube Oil Range Organics	1800	140 270	NWTPH-DX NWTPH-Dx	7-21-15 7-21-15	7-21-15 7-21-15	N
			INVVICEDX	1-21-10	1-21-10	
Surrogate: o-Terphenyl	Percent Recovery 85	50-150				
о-тегрпепут	65	30-130				
Client ID:	P2A-B2-1-2					
Laboratory ID:	07-071-27					
Diesel Range Organics	220	31	NWTPH-Dx	7-21-15	7-20-15	N
Lube Oil Range Organics	690	62	NWTPH-Dx	7-21-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				

Project: 0570-133-02

NWTPH-Dx

Matrix: Soil

A lost -	Donali	DOL	Mathad	Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B1-0-1					
Laboratory ID:	07-071-30					
Diesel Range Organics	190	29	NWTPH-Dx	7-21-15	7-20-15	N
Lube Oil Range Organics	1600	59	NWTPH-Dx	7-21-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B10-1-2					
Laboratory ID:	07-071-02					
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Chloromethane	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Vinyl Chloride	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Bromomethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Chloroethane	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Acetone	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Iodomethane	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Carbon Disulfide	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Methylene Chloride	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Methyl t-Butyl Ether	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Vinyl Acetate	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
2-Butanone	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Bromochloromethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Chloroform	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Benzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Trichloroethene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Dibromomethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Bromodichloromethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Methyl Isobutyl Ketone	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Toluene	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B10-1-2					
Laboratory ID:	07-071-02					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Tetrachloroethene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
2-Hexanone	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Dibromochloromethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Chlorobenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Ethylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
m,p-Xylene	ND	0.0014	EPA 8260C	7-13-15	7-13-15	
o-Xylene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Styrene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Bromoform	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Isopropylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Bromobenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
n-Propylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
2-Chlorotoluene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1-Chlorotoluene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,3,5-Trimethylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
tert-Butylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trimethylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
sec-Butylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
o-Isopropyltoluene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
n-Butylbenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
-lexachlorobutadiene	ND	0.0034	EPA 8260C	7-13-15	7-13-15	
Naphthalene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	115	76-131				
Toluene-d8	105	82-129				
4-Bromofluorobenzene	104	79-126				

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

3 3					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B9-1-2						
Laboratory ID:	07-071-06						
Dichlorodifluoromethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Chloromethane	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
Vinyl Chloride	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Bromomethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Chloroethane	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
Trichlorofluoromethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethene	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Acetone	0.017	0.0046		EPA 8260C	7-14-15	7-14-15	
Iodomethane	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
Carbon Disulfide	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Methylene Chloride	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
(trans) 1,2-Dichloroethene	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Methyl t-Butyl Ether	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Vinyl Acetate	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
2,2-Dichloropropane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
(cis) 1,2-Dichloroethene	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
2-Butanone	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
Bromochloromethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Chloroform	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
1,1,1-Trichloroethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Carbon Tetrachloride	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloropropene	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Benzene	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
1,2-Dichloroethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Trichloroethene	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
1,2-Dichloropropane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Dibromomethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Bromodichloromethane	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
2-Chloroethyl Vinyl Ether	ND	0.0067		EPA 8260C	7-14-15	7-14-15	
(cis) 1,3-Dichloropropene	ND	0.00092		EPA 8260C	7-14-15	7-14-15	
Methyl Isobutyl Ketone	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
Toluene	ND	0.0046		EPA 8260C	7-14-15	7-14-15	
(trans) 1,3-Dichloropropene	ND	0.058		EPA 8260C	7-14-15	7-14-15	

Project: 0570-133-02

VOLATILES EPA 8260C page 2 of 2

Analyte Result PQL MDL Method Prepared Analyte Client ID: P2A-B9-1-2 P2A-B260C 7-14-15 7-14-15 7-14-15 P2A-14-15 P2A-14-15	yzed Flags
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1,1,2,2-Tetrachloroethane ND 0.058 EPA 8260C 7-14-15 7-14	-15
1,2,3-Trichloropropane ND 0.058 EPA 8260C 7-14-15 7-14	-15
n-Propylbenzene ND 0.058 EPA 8260C 7-14-15 7-14	-15
2-Chlorotoluene ND 0.058 EPA 8260C 7-14-15 7-14	-15
4-Chlorotoluene ND 0.058 EPA 8260C 7-14-15 7-14	-15
1,3,5-Trimethylbenzene ND 0.058 EPA 8260C 7-14-15 7-14	-15
tert-Butylbenzene ND 0.058 EPA 8260C 7-14-15 7-14	-15
1,2,4-Trimethylbenzene ND 0.058 EPA 8260C 7-14-15 7-14	-15
sec-Butylbenzene ND 0.058 EPA 8260C 7-14-15 7-14	-15
1,3-Dichlorobenzene ND 0.058 EPA 8260C 7-14-15 7-14	-15
p-Isopropyltoluene ND 0.058 EPA 8260C 7-14-15 7-14	
1,4-Dichlorobenzene ND 0.058 EPA 8260C 7-14-15 7-14	
1,2-Dichlorobenzene ND 0.058 EPA 8260C 7-14-15 7-14	
n-Butylbenzene ND 0.058 EPA 8260C 7-14-15 7-14	
1,2-Dibromo-3-chloropropane ND 0.29 EPA 8260C 7-14-15 7-14	_
1,2,4-Trichlorobenzene ND 0.058 EPA 8260C 7-14-15 7-14	
Hexachlorobutadiene ND 0.29 EPA 8260C 7-14-15 7-14	
Naphthalene ND 0.058 EPA 8260C 7-14-15 7-14	
1,2,3-Trichlorobenzene ND 0.058 EPA 8260C 7-14-15 7-14	
Surrogate: Percent Recovery Control Limits	
Dibromofluoromethane 110 76-131	
Toluene-d8 106 82-129	
4-Bromofluorobenzene 101 79-126	

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B7-1-2					
Laboratory ID:	07-071-15					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Chloromethane	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
Vinyl Chloride	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Bromomethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Chloroethane	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Acetone	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
Iodomethane	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
Carbon Disulfide	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Methylene Chloride	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Methyl t-Butyl Ether	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Vinyl Acetate	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
2-Butanone	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
Bromochloromethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Chloroform	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Benzene	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Trichloroethene	0.013	0.00091	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Dibromomethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Bromodichloromethane	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	7-13-15	7-13-15	
Methyl Isobutyl Ketone	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
Toluene	ND	0.0046	EPA 8260C	7-13-15	7-13-15	
(trans) 1,3-Dichloropropene	ND	0.043	EPA 8260C	7-14-15	7-14-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

Analyte Client ID: Laboratory ID: 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene	Result P2A-B7-1-2 07-071-15 ND	0.043 0.043 0.043 0.22 0.043 0.043 0.043	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	7-14-15 7-14-15 7-14-15 7-14-15 7-14-15 7-14-15	7-14-15 7-14-15 7-14-15 7-14-15 7-14-15	Flags
Laboratory ID: 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene	07-071-15 ND ND ND ND ND ND ND ND ND N	0.043 0.043 0.22 0.043 0.043 0.043	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	7-14-15 7-14-15 7-14-15 7-14-15	7-14-15 7-14-15 7-14-15	
1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene p-Xylene	ND	0.043 0.043 0.22 0.043 0.043 0.043	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	7-14-15 7-14-15 7-14-15 7-14-15	7-14-15 7-14-15 7-14-15	
Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene p-Xylene	ND	0.043 0.043 0.22 0.043 0.043 0.043	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	7-14-15 7-14-15 7-14-15 7-14-15	7-14-15 7-14-15 7-14-15	
1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene D-Xylene	ND ND ND ND ND ND	0.043 0.22 0.043 0.043 0.043	EPA 8260C EPA 8260C EPA 8260C EPA 8260C	7-14-15 7-14-15 7-14-15	7-14-15 7-14-15	
2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene p-Xylene	ND ND ND ND ND ND	0.22 0.043 0.043 0.043 0.043	EPA 8260C EPA 8260C EPA 8260C	7-14-15 7-14-15	7-14-15	
Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene	ND ND ND ND ND	0.043 0.043 0.043 0.043	EPA 8260C EPA 8260C	7-14-15		
1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene	ND ND ND ND	0.043 0.043 0.043	EPA 8260C		7-14-15	
Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene	ND ND ND	0.043 0.043		7-11-15		
1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene	ND ND	0.043	FPA 8260C	7-14-15	7-14-15	
Ethylbenzene m,p-Xylene p-Xylene	ND		_: /: 02000	7-14-15	7-14-15	
m,p-Xylene o-Xylene		0.010	EPA 8260C	7-14-15	7-14-15	
o-Xylene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
-		0.087	EPA 8260C	7-14-15	7-14-15	
	ND	0.043	EPA 8260C	7-14-15	7-14-15	
Styrene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
- Bromoform	ND	0.043	EPA 8260C	7-14-15	7-14-15	
sopropylbenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
Bromobenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,1,2,2-Tetrachloroethane	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichloropropane	ND	0.043	EPA 8260C	7-14-15	7-14-15	
n-Propylbenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
2-Chlorotoluene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
4-Chlorotoluene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,3,5-Trimethylbenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
ert-Butylbenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,2,4-Trimethylbenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
sec-Butylbenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,3-Dichlorobenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
p-Isopropyltoluene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,4-Dichlorobenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,2-Dichlorobenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
n-Butylbenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,2-Dibromo-3-chloropropane	ND	0.22	EPA 8260C	7-14-15	7-14-15	
1,2,4-Trichlorobenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
Hexachlorobutadiene	ND	0.22	EPA 8260C	7-14-15	7-14-15	
Naphthalene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichlorobenzene	ND	0.043	EPA 8260C	7-14-15	7-14-15	
, ,	ercent Recovery	Control Limits		-		
Dibromofluoromethane	108	76-131				
Toluene-d8	110	82-129				
4-Bromofluorobenzene	103	79-126				

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

Client ID: P2A-B5-1-2 Laboratory ID: 07-071-19 Dichlorodifluoromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Chloromethane ND 0.0055 EPA 8260C 7-13-15 7-13-15 Vinyl Chloride ND 0.0011 EPA 8260C 7-13-15 7-13-15 Bromomethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Chloroethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Chloroethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Trichlorofluoromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Trichloroethene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Acetone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Carbon Disulfide ND 0.0055 EPA 8260C 7-13-15 7-13-15 Methylene Chloride ND 0.0011 EPA 8260C 7-13-15 7-13-15						Date	Date	
Laboratory ID: 07-071-19 Dichlorodiffluoromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Chloromethane ND 0.0055 EPA 8260C 7-13-15 7-13-15 Vinyl Chloride ND 0.0011 EPA 8260C 7-13-15 7-13-15 Bromomethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Chloroethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Tricklorofluoromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Tricklorofluoromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Acetone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Idodomethane ND 0.0055 EPA 8260C 7-13-15 7-13-15 Idodomethane ND 0.0055 EPA 8260C 7-13-15 7-13-15 Methylene Chloride ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methylene Chloride ND<	Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
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Benzene ND 0.0011 EPA 8260C 7-13-15 7-13-15 1,2-Dichloroethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Trichloroethene ND 0.0011 EPA 8260C 7-13-15 7-13-15 1,2-Dichloropropane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Dibromomethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Bromodichloromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 2-Chloroethyl Vinyl Ether ND 0.0093 EPA 8260C 7-13-15 7-13-15 (cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	Carbon Tetrachloride	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
1,2-Dichloroethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Trichloroethene ND 0.0011 EPA 8260C 7-13-15 7-13-15 1,2-Dichloropropane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Dibromomethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Bromodichloromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 2-Chloroethyl Vinyl Ether ND 0.0093 EPA 8260C 7-13-15 7-13-15 (cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	1,1-Dichloropropene	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
Trichloroethene ND 0.0011 EPA 8260C 7-13-15 7-13-15 1,2-Dichloropropane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Dibromomethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Bromodichloromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 2-Chloroethyl Vinyl Ether ND 0.0093 EPA 8260C 7-13-15 7-13-15 (cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	Benzene	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
1,2-Dichloropropane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Dibromomethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Bromodichloromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 2-Chloroethyl Vinyl Ether ND 0.0093 EPA 8260C 7-13-15 7-13-15 (cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	1,2-Dichloroethane	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
Dibromomethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 Bromodichloromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 2-Chloroethyl Vinyl Ether ND 0.0093 EPA 8260C 7-13-15 7-13-15 (cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	Trichloroethene	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
Bromodichloromethane ND 0.0011 EPA 8260C 7-13-15 7-13-15 2-Chloroethyl Vinyl Ether ND 0.0093 EPA 8260C 7-13-15 7-13-15 (cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	1,2-Dichloropropane	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
2-Chloroethyl Vinyl Ether ND 0.0093 EPA 8260C 7-13-15 7-13-15 (cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	Dibromomethane	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	Bromodichloromethane	ND	0.0011		EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene ND 0.0011 EPA 8260C 7-13-15 7-13-15 Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	2-Chloroethyl Vinyl Ether	ND	0.0093		EPA 8260C	7-13-15	7-13-15	
Methyl Isobutyl Ketone ND 0.0055 EPA 8260C 7-13-15 7-13-15 Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15		ND	0.0011		EPA 8260C	7-13-15	7-13-15	
Toluene ND 0.0055 EPA 8260C 7-13-15 7-13-15	Methyl Isobutyl Ketone	ND	0.0055		EPA 8260C	7-13-15	7-13-15	
(trans) 1,3-Dichloropropene ND 0.060 EPA 8260C 7-14-15 7-14-15		ND	0.0055		EPA 8260C	7-13-15	7-13-15	
	(trans) 1,3-Dichloropropene	ND	0.060		EPA 8260C	7-14-15	7-14-15	

Date of Report: July 29, 2015 Samples Submitted: July 9, 2015 Laboratory Reference: 1507-071 Project: 0570-133-02

VOLATILES EPA 8260C page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B5-1-2						
Laboratory ID:	07-071-19						
1,1,2-Trichloroethane	ND	0.060		EPA 8260C	7-14-15	7-14-15	
Tetrachloroethene	ND	0.060	0.017	EPA 8260C	7-14-15	7-14-15	
1,3-Dichloropropane	ND	0.060		EPA 8260C	7-14-15	7-14-15	
2-Hexanone	ND	0.30		EPA 8260C	7-14-15	7-14-15	
Dibromochloromethane	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,2-Dibromoethane	ND	0.060		EPA 8260C	7-14-15	7-14-15	
Chlorobenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,1,1,2-Tetrachloroethane	ND	0.060		EPA 8260C	7-14-15	7-14-15	
Ethylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
m,p-Xylene	ND	0.12		EPA 8260C	7-14-15	7-14-15	
o-Xylene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
Styrene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
Bromoform	ND	0.060		EPA 8260C	7-14-15	7-14-15	
sopropylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
Bromobenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,1,2,2-Tetrachloroethane	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichloropropane	ND	0.060		EPA 8260C	7-14-15	7-14-15	
n-Propylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
2-Chlorotoluene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
4-Chlorotoluene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,3,5-Trimethylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
ert-Butylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,2,4-Trimethylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
sec-Butylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,3-Dichlorobenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
o-Isopropyltoluene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,4-Dichlorobenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,2-Dichlorobenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
n-Butylbenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,2-Dibromo-3-chloropropane	ND	0.30		EPA 8260C	7-14-15	7-14-15	
1,2,4-Trichlorobenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
-lexachlorobutadiene	ND	0.30		EPA 8260C	7-14-15	7-14-15	
Naphthalene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichlorobenzene	ND	0.060		EPA 8260C	7-14-15	7-14-15	
Surrogate:	Percent Recovery						
Dibromofluoromethane	111	76-131					
Toluene-d8	111	82-129					
4-Bromofluorobenzene	102	79-126					

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B4-0-1					
Laboratory ID:	07-071-22					
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Chloromethane	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
Vinyl Chloride	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Bromomethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Chloroethane	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Acetone	0.036	0.0035	EPA 8260C	7-14-15	7-14-15	
Iodomethane	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
Carbon Disulfide	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Methylene Chloride	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Methyl t-Butyl Ether	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Vinyl Acetate	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
2-Butanone	0.0066	0.0035	EPA 8260C	7-14-15	7-14-15	
Bromochloromethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Chloroform	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Benzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Trichloroethene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Dibromomethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Bromodichloromethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	7-14-15	7-14-15	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Methyl Isobutyl Ketone	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
Toluene	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

Client ID: P2A-B4-0-1					Date	Date	
Laboratory ID:	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane	Client ID:	P2A-B4-0-1					
Tetrachloroethene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3-Dichloropropane ND 0.00069 EPA 8260C 7-14-15 7-14-15 7-14-15 2-Hexanone ND 0.0035 EPA 8260C 7-14-15 7-14-15 Dibromochloromethane ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dibromochlane ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,1,1,2-Tetrachloroethane ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	Laboratory ID:	07-071-22					
1,3-Dichloropropane ND 0.00069 EPA 8260C 7-14-15 7-14-15 P2-Hexanone ND 0.0035 EPA 8260C 7-14-15 7-14-15 P2-Hexanone ND 0.0035 EPA 8260C 7-14-15 7-14-15 P3-14-15 P3-	1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
2-Hexanone	Tetrachloroethene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Dibromochloromethane	1,3-Dichloropropane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2-Dibromoethane	2-Hexanone	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
Chlorobenzene	Dibromochloromethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,1,1,2-Tetrachloroethane	1,2-Dibromoethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Ethylbenzene 0.00096 0.00069 EPA 8260C 7-14-15	Chlorobenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
m.pXylene	1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
D-Xylene 0.0028 0.00069 EPA 8260C 7-14-15 7-14-15 Styrene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Bromoform ND 0.00069 EPA 8260C 7-14-15 7-14-15 Bromobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Bromobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Bromobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,1,2,2-Tetrachloroethane ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,2-Tetrachloroethane ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,2-Trichlorobrazene ND 0.00069 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.00069 EPA 8260C	Ethylbenzene	0.00096	0.00069	EPA 8260C	7-14-15	7-14-15	
Styrene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Stornoform ND 0.00069 EPA 8260C 7-14-15	m,p-Xylene	0.0046	0.0014	EPA 8260C	7-14-15	7-14-15	
Styrene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Stornoform ND 0.00069 EPA 8260C 7-14-15		0.0028	0.00069	EPA 8260C	7-14-15	7-14-15	
Sepropy Benzene ND 0.00069 EPA 8260C 7-14-15	Styrene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Second Description	Bromoform	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,1,2,2-Tetrachloroethane	sopropylbenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichloropropane	Bromobenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
ND	1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
n-Propylbenzene ND 0.00069 EPA 8260C 7-14-15 7	1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
A-Chlorotoluene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-		ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,3,5-Trimethylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene 109 76-131 Toluene-d8 96 82-129	2-Chlorotoluene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
ert-Butylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 12,4-Trimethylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 13-13-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 14-15 14-15 14-15 15-15-Dispercyltoluene ND 0.00069 EPA 8260C 7-14-15 7-14-15 14-15 14-15 14-15 15-Dispercyltoluene ND 0.00069 EPA 8260C 7-14-15 7-14-15 14-15 14-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 14-15 14-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 14-15 14-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 14-Disperce ND 0	1-Chlorotoluene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
ND 0.0069 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.0069 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.0069 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.0069 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.0069 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.0069 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.0035 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.0069 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.0069 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.00069 EPA 8260C 7-14-15 7-14-15 ND 0.00069	ert-Butylbenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,3-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.0035 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 76-131 76-131	1,2,4-Trimethylbenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
Decomposite ND 0.00069 EPA 8260C 7-14-15 7-1	sec-Butylbenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,4-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.0035 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129	1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2-Dichlorobenzene	o-Isopropyltoluene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
ND 0.00069 EPA 8260C 7-14-15	1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2-Dibromo-3-chloropropane ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.0035 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129	1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2-Dibromo-3-chloropropane ND 0.0035 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.0035 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129	n-Butylbenzene	ND	0.00069	EPA 8260C	7-14-15	7-14-15	
1,2,4-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.0035 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129	1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
Hexachlorobutadiene ND 0.0035 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.00069 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129					7-14-15		
1,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129	Hexachlorobutadiene	ND	0.0035	EPA 8260C	7-14-15	7-14-15	
I,2,3-Trichlorobenzene ND 0.00069 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129	Naphthalene						
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129		ND					
Dibromofluoromethane 109 76-131 Toluene-d8 96 82-129		Percent Recovery					
Toluene-d8 96 82-129	_	-					
	4-Bromofluorobenzene						

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B4-1-2					
Laboratory ID:	07-071-23					
Dichlorodifluoromethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Chloromethane	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Vinyl Chloride	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Bromomethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Chloroethane	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Trichlorofluoromethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Acetone	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Iodomethane	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Carbon Disulfide	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Methylene Chloride	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Methyl t-Butyl Ether	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Vinyl Acetate	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
2,2-Dichloropropane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
2-Butanone	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Bromochloromethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Chloroform	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Carbon Tetrachloride	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloropropene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Benzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloroethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Trichloroethene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloropropane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Dibromomethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Bromodichloromethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Toluene	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B4-1-2					
Laboratory ID:	07-071-23					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Tetrachloroethene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,3-Dichloropropane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
2-Hexanone	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Dibromochloromethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromoethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Chlorobenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Ethylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
m,p-Xylene	ND	0.0017	EPA 8260C	7-13-15	7-13-15	
o-Xylene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Styrene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Bromoform	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
sopropylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Bromobenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
n-Propylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
2-Chlorotoluene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
4-Chlorotoluene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,3,5-Trimethylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
ert-Butylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trimethylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
sec-Butylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
o-Isopropyltoluene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
n-Butylbenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	7-13-15	7-13-15	
Naphthalene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260C	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits			· · · · · ·	
Dibromofluoromethane	119	76-131				
Toluene-d8						
	107	82-129				

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B2-1-2					
Laboratory ID:	07-071-27					
Dichlorodifluoromethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Chloromethane	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
Vinyl Chloride	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Bromomethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Chloroethane	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
Trichlorofluoromethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Acetone	0.0091	0.0037	EPA 8260C	7-13-15	7-13-15	
Iodomethane	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
Carbon Disulfide	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Methylene Chloride	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
(trans) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Methyl t-Butyl Ether	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Vinyl Acetate	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
2,2-Dichloropropane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
(cis) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
2-Butanone	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
Bromochloromethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Chloroform	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,1,1-Trichloroethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Carbon Tetrachloride	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloropropene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Benzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloroethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Trichloroethene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloropropane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Dibromomethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Bromodichloromethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Methyl Isobutyl Ketone	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
Toluene	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
(trans) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B2-1-2					
Laboratory ID:	07-071-27					
1,1,2-Trichloroethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Tetrachloroethene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,3-Dichloropropane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
2-Hexanone	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
Dibromochloromethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromoethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Chlorobenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,1,1,2-Tetrachloroethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Ethylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
m,p-Xylene	ND	0.0015	EPA 8260C	7-13-15	7-13-15	
o-Xylene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Styrene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Bromoform	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Isopropylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Bromobenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,1,2,2-Tetrachloroethane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichloropropane	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
n-Propylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
2-Chlorotoluene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
4-Chlorotoluene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,3,5-Trimethylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
tert-Butylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trimethylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
sec-Butylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,3-Dichlorobenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
p-Isopropyltoluene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,4-Dichlorobenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2-Dichlorobenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
n-Butylbenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trichlorobenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	7-13-15	7-13-15	
Naphthalene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichlorobenzene	ND	0.00075	EPA 8260C	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	124	76-131				
Toluene-d8	111	82-129				
4-Bromofluorobenzene	98	79-126				

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B1-0-1						
Laboratory ID:	07-071-30						
Dichlorodifluoromethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Chloromethane	ND	0.0040		EPA 8260C	7-14-15	7-14-15	
Vinyl Chloride	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Bromomethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Chloroethane	ND	0.0040		EPA 8260C	7-14-15	7-14-15	
Trichlorofluoromethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethene	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Acetone	0.065	0.0040		EPA 8260C	7-14-15	7-14-15	
Iodomethane	ND	0.0040		EPA 8260C	7-14-15	7-14-15	
Carbon Disulfide	0.00091	0.00081		EPA 8260C	7-14-15	7-14-15	Υ
Methylene Chloride	ND	0.0040		EPA 8260C	7-14-15	7-14-15	
(trans) 1,2-Dichloroethene	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Methyl t-Butyl Ether	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Vinyl Acetate	ND	0.0040		EPA 8260C	7-14-15	7-14-15	
2,2-Dichloropropane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
(cis) 1,2-Dichloroethene	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
2-Butanone	0.010	0.0040		EPA 8260C	7-14-15	7-14-15	
Bromochloromethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Chloroform	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
1,1,1-Trichloroethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Carbon Tetrachloride	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloropropene	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Benzene	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
1,2-Dichloroethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Trichloroethene	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
1,2-Dichloropropane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Dibromomethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Bromodichloromethane	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
2-Chloroethyl Vinyl Ether	ND	0.0059		EPA 8260C	7-14-15	7-14-15	
(cis) 1,3-Dichloropropene	ND	0.00081		EPA 8260C	7-14-15	7-14-15	
Methyl Isobutyl Ketone	ND	0.0040		EPA 8260C	7-14-15	7-14-15	
Toluene	ND	0.0040		EPA 8260C	7-14-15	7-14-15	
(trans) 1,3-Dichloropropene	ND	0.052		EPA 8260C	7-14-15	7-14-15	

Date of Report: July 29, 2015 Samples Submitted: July 9, 2015 Laboratory Reference: 1507-071 Project: 0570-133-02

VOLATILES EPA 8260C page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B1-0-1						
Laboratory ID:	07-071-30						
1,1,2-Trichloroethane	ND	0.052		EPA 8260C	7-14-15	7-14-15	
Tetrachloroethene	ND	0.052	0.015	EPA 8260C	7-14-15	7-14-15	
1,3-Dichloropropane	ND	0.052		EPA 8260C	7-14-15	7-14-15	
2-Hexanone	ND	0.26		EPA 8260C	7-14-15	7-14-15	
Dibromochloromethane	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,2-Dibromoethane	ND	0.052		EPA 8260C	7-14-15	7-14-15	
Chlorobenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,1,1,2-Tetrachloroethane	ND	0.052		EPA 8260C	7-14-15	7-14-15	
Ethylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
m,p-Xylene	ND	0.10		EPA 8260C	7-14-15	7-14-15	
o-Xylene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
Styrene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
Bromoform	ND	0.052		EPA 8260C	7-14-15	7-14-15	
sopropylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
Bromobenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,1,2,2-Tetrachloroethane	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichloropropane	ND	0.052		EPA 8260C	7-14-15	7-14-15	
n-Propylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
2-Chlorotoluene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
4-Chlorotoluene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,3,5-Trimethylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
ert-Butylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,2,4-Trimethylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
sec-Butylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,3-Dichlorobenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
o-Isopropyltoluene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,4-Dichlorobenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,2-Dichlorobenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
n-Butylbenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,2-Dibromo-3-chloropropane	ND	0.26		EPA 8260C	7-14-15	7-14-15	
1,2,4-Trichlorobenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
	ND	0.26		EPA 8260C	7-14-15	7-14-15	
Naphthalene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichlorobenzene	ND	0.052		EPA 8260C	7-14-15	7-14-15	
Surrogate:	Percent Recovery						
Dibromofluoromethane	106	76-131					
Toluene-d8	107	82-129					
4-Bromofluorobenzene	101	79-126					

Project: 0570-133-02

VOLATILES EPA 8260C page 1 of 2

Analyte				Date	Date	
	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B1-1-2					
Laboratory ID:	07-071-31					
Dichlorodifluoromethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Chloromethane	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
Vinyl Chloride	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Bromomethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Chloroethane	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Acetone	0.14	0.0041	EPA 8260C	7-13-15	7-13-15	
Iodomethane	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
Carbon Disulfide	0.0010	0.00081	EPA 8260C	7-13-15	7-13-15	
Methylene Chloride	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Vinyl Acetate	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
2-Butanone	0.022	0.0041	EPA 8260C	7-13-15	7-13-15	
Bromochloromethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Chloroform	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Benzene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Trichloroethene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Dibromomethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Bromodichloromethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Methyl Isobutyl Ketone	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
Toluene	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	

Project: 0570-133-02

VOLATILES EPA 8260C

page 2 of 2

Analyte Result PQL Method Prepare Analyzed Flags					Date	Date	
Laboratory ID: 07-071-31	Analyte		PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane							
Tetrachloroethene							
1,3-Dichloropropane ND 0.00081 EPA 8260C 7-13-15 7-13-15 2-Hexanone ND 0.0041 EPA 8260C 7-13-15 7-13-15 Dibromochloromethane ND 0.00081 EPA 8260C 7-13-15 7-13-15 1,2-Dibromoethane ND 0.00081 EPA 8260C 7-13-15 7-13-15 Chlorobenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 1,1,1,2-Tetrachloroethane ND 0.00081 EPA 8260C 7-13-15 7-13-15 1,1,1,2-Tetrachloroethane ND 0.00081 EPA 8260C 7-13-15 7-13-15 mp-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 mp-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 mp-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Styrene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromoform ND 0.0051 EPA 8260C 7-14-15	1,1,2-Trichloroethane	ND					
2-Hexanone	Tetrachloroethene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Dibromochloromethane	1,3-Dichloropropane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromoethane	2-Hexanone	ND	0.0041	EPA 8260C	7-13-15	7-13-15	
Chlorobenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 1,1,1,2-Tetrachloroethane ND 0.00081 EPA 8260C 7-13-15 7-13-15 Ethylbenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 m,P-Xylene ND 0.0016 EPA 8260C 7-13-15 7-13-15 o-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Styrene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromoform ND 0.00081 EPA 8260C 7-13-15 7-13-15 Isopropylbenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.0051 EPA 8260C 7-14-15 7-13-15 Bromobenzene ND 0.051 EPA 8260C 7-14-15 7-13-15 Bromobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15<	Dibromochloromethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,1,2-Tetrachloroethane ND 0.00081 EPA 8260C 7-13-15 7-13-15 Ethylbenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 m,p-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 o-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Styrene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromoform ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.0081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,1,2,2-Tetrachloroethane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Propylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 <td< td=""><td>1,2-Dibromoethane</td><td>ND</td><td>0.00081</td><td>EPA 8260C</td><td>7-13-15</td><td>7-13-15</td><td></td></td<>	1,2-Dibromoethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Ethylbenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 m,p Xylene ND 0.0016 EPA 8260C 7-13-15 7-13-15 o-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Styrene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromoform ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.0081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.0051 EPA 8260C 7-14-15 7-14-15 1,1,2,2-Tetrachloroethane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7	Chlorobenzene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
m.p. Xylene ND 0.0016 EPA 8260C 7-13-15 7-13-15 c-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Styrene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromoform ND 0.00081 EPA 8260C 7-13-15 7-13-15 Isopropylbenzene ND 0.0081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,1,2,3-Tertachloroethane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Propylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-	1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
o-Xylene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Styrene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromoform ND 0.00081 EPA 8260C 7-13-15 7-13-15 Isopropylbenzene ND 0.0081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,1,2,2-Tetrachloroethane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15	Ethylbenzene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Styrene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromoform ND 0.00081 EPA 8260C 7-13-15 7-13-15 T-13-15 Isopropylbenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 T-13-15 T-	m,p-Xylene	ND	0.0016	EPA 8260C	7-13-15	7-13-15	
Bromoform ND 0.00081 EPA 8260C 7-13-15 7-13-15 Isopropylbenzene ND 0.00081 EPA 8260C 7-13-15 7-13-15 Bromobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,1,2,2-Tetrachloroethane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Propylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7	o-Xylene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Isopropylbenzene	Styrene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
Bromobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,1,2,2-Tetrachloroethane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Frimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 82	Bromoform	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,1,2,2-Tetrachloroethane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Propylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 sec-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C	Isopropylbenzene	ND	0.00081	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Propylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 tetr-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.051 EPA 8260	Bromobenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
n-Propylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 E	1,1,2,2-Tetrachloroethane	ND	0.051	EPA 8260C	7-14-15	7-14-15	
2-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 p-Isopropyltoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 <t< td=""><td>1,2,3-Trichloropropane</td><td>ND</td><td>0.051</td><td>EPA 8260C</td><td>7-14-15</td><td>7-14-15</td><td></td></t<>	1,2,3-Trichloropropane	ND	0.051	EPA 8260C	7-14-15	7-14-15	
4-Chlorotoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 tert-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.051 E	n-Propylbenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,3,5-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 tert-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 sec-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 p-Isopropyltoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C	2-Chlorotoluene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
tert-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 sec-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 p-Isopropyltoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.051 EPA 8260C 7-14-15 7-14-15 ND 0.051 EPA 8260C 7-14-15	4-Chlorotoluene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,2,4-Trimethylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 sec-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 p-Isopropyltoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C	1,3,5-Trimethylbenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
sec-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 p-Isopropyltoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.051 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits	tert-Butylbenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,3-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 p-Isopropyltoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82	1,2,4-Trimethylbenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
p-Isopropyltoluene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	sec-Butylbenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,4-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	1,3-Dichlorobenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,2-Dichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	p-Isopropyltoluene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
n-Butylbenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	1,4-Dichlorobenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,2-Dibromo-3-chloropropane ND 0.26 EPA 8260C 7-14-15 7-14-15 1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	1,2-Dichlorobenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,2,4-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	n-Butylbenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
Hexachlorobutadiene ND 0.26 EPA 8260C 7-14-15 7-14-15 Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	1,2-Dibromo-3-chloropropane	ND	0.26	EPA 8260C	7-14-15	7-14-15	
Naphthalene ND 0.051 EPA 8260C 7-14-15 7-14-15 1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	1,2,4-Trichlorobenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichlorobenzene ND 0.051 EPA 8260C 7-14-15 7-14-15 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	Hexachlorobutadiene	ND	0.26	EPA 8260C	7-14-15	7-14-15	
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	Naphthalene	ND	0.051		7-14-15	7-14-15	
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	1,2,3-Trichlorobenzene	ND	0.051	EPA 8260C	7-14-15	7-14-15	
Dibromofluoromethane 117 76-131 Toluene-d8 98 82-129	_	Percent Recovery	Control Limits				
	-						
	Toluene-d8	98	82-129				
	4-Bromofluorobenzene						

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C Page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B7-3-4					
Laboratory ID:	07-071-17					
Dichlorodifluoromethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Chloromethane	ND	0.0032	EPA 8260C	7-21-15	7-21-15	
Vinyl Chloride	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Bromomethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Chloroethane	ND	0.0032	EPA 8260C	7-21-15	7-21-15	
Trichlorofluoromethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Iodomethane	ND	0.0032	EPA 8260C	7-21-15	7-21-15	
Methylene Chloride	ND	0.0032	EPA 8260C	7-21-15	7-21-15	
(trans) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
2,2-Dichloropropane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
(cis) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Bromochloromethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Chloroform	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,1,1-Trichloroethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Carbon Tetrachloride	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloropropene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloroethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Trichloroethene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloropropane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Dibromomethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Bromodichloromethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	7-21-15	7-21-15	
(cis) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
(trans) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C Page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B7-3-4					
Laboratory ID:	07-071-17					
1,1,2-Trichloroethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Tetrachloroethene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,3-Dichloropropane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Dibromochloromethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromoethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Chlorobenzene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,1,1,2-Tetrachloroethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Bromoform	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Bromobenzene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,1,2,2-Tetrachloroethane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichloropropane	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
2-Chlorotoluene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
4-Chlorotoluene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,3-Dichlorobenzene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,4-Dichlorobenzene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,2-Dichlorobenzene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	7-21-15	7-21-15	
1,2,4-Trichlorobenzene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichlorobenzene	ND	0.00063	EPA 8260C	7-21-15	7-21-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	76-131				
Toluene-d8	98	82-129				
4-Bromofluorobenzene	93	79-126				

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C Page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B5-3-4					
Laboratory ID:	07-071-21					
Dichlorodifluoromethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Chloromethane	ND	0.0036	EPA 8260C	7-21-15	7-21-15	
Vinyl Chloride	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Bromomethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Chloroethane	ND	0.0036	EPA 8260C	7-21-15	7-21-15	
Trichlorofluoromethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Iodomethane	ND	0.0036	EPA 8260C	7-21-15	7-21-15	
Methylene Chloride	ND	0.0036	EPA 8260C	7-21-15	7-21-15	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
2,2-Dichloropropane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Bromochloromethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Chloroform	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Carbon Tetrachloride	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloropropene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloroethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Trichloroethene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloropropane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Dibromomethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Bromodichloromethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	7-21-15	7-21-15	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C Page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B5-3-4					
Laboratory ID:	07-071-21					
1,1,2-Trichloroethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Tetrachloroethene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,3-Dichloropropane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Dibromochloromethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromoethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Chlorobenzene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Bromoform	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Bromobenzene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
2-Chlorotoluene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
4-Chlorotoluene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	7-21-15	7-21-15	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260C	7-21-15	7-21-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	76-131				
Toluene-d8	109	82-129				
4-Bromofluorobenzene	102	79-126				

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C Page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B2-3-4					
Laboratory ID:	07-071-29					
Dichlorodifluoromethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Chloromethane	ND	0.0037	EPA 8260C	7-21-15	7-21-15	
Vinyl Chloride	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Bromomethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Chloroethane	ND	0.0037	EPA 8260C	7-21-15	7-21-15	
Trichlorofluoromethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Iodomethane	ND	0.0037	EPA 8260C	7-21-15	7-21-15	
Methylene Chloride	ND	0.0037	EPA 8260C	7-21-15	7-21-15	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
2,2-Dichloropropane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Bromochloromethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Chloroform	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,1,1-Trichloroethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Carbon Tetrachloride	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloropropene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloroethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Trichloroethene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloropropane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Dibromomethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Bromodichloromethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	7-21-15	7-21-15	
(cis) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
(trans) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C Page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B2-3-4					
Laboratory ID:	07-071-29					
1,1,2-Trichloroethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Tetrachloroethene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,3-Dichloropropane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Dibromochloromethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromoethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Chlorobenzene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,1,1,2-Tetrachloroethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Bromoform	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Bromobenzene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,1,2,2-Tetrachloroethane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichloropropane	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
2-Chlorotoluene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
4-Chlorotoluene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,3-Dichlorobenzene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,4-Dichlorobenzene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,2-Dichlorobenzene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	7-21-15	7-21-15	
1,2,4-Trichlorobenzene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichlorobenzene	ND	0.00074	EPA 8260C	7-21-15	7-21-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	76-131				
Toluene-d8	98	82-129				
4-Bromofluorobenzene	91	79-126				

Project: 0570-133-02

SEMIVOLATILES EPA 8270D/SIM

page 1 of 2

Offits. Hig/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B8-0-1					
Laboratory ID:	07-071-10					
n-Nitrosodimethylamine	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Pyridine	ND	0.35	EPA 8270D	7-13-15	7-13-15	
Phenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Aniline	ND	0.17	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2-Chlorophenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
1,3-Dichlorobenzene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
1,4-Dichlorobenzene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Benzyl alcohol	ND	0.17	EPA 8270D	7-13-15	7-13-15	
1,2-Dichlorobenzene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270D	7-13-15	7-13-15	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270D	7-13-15	7-13-15	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Hexachloroethane	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Nitrobenzene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Isophorone	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2-Nitrophenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,4-Dimethylphenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,4-Dichlorophenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Naphthalene	0.020	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
4-Chloroaniline	ND	0.17	EPA 8270D	7-13-15	7-13-15	
Hexachlorobutadiene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2-Methylnaphthalene	0.022	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
1-Methylnaphthalene	0.014	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,3-Dichloroaniline	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2-Chloronaphthalene	ND	0.035	EPA 8270D	7-13-15	7-13-15 7-13-15	
2-Nitroaniline	ND	0.035	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1,4-Dinitrobenzene	ND	0.035	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
Dimethylphthalate	ND	0.035	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1,3-Dinitrobenzene	ND ND	0.035	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2,6-Dinitrotoluene	ND ND	0.035	EPA 8270D EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1,2-Dinitrobenzene	ND 0.017	0.035	EPA 8270D	7-13-15 7-13-15	7-13-15 7 12 15	
Acenaphthylene	0.017	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
3-Nitroaniline	ND	0.035	EPA 8270D	7-13-15	7-13-15	

Project: 0570-133-02

SEMIVOLATILES EPA 8270D/SIM

page 2 of 2

Analyte Client ID: Laboratory ID: 2,4-Dinitrophenol	Result P2A-B8-0-1 07-071-10 ND	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	07-071-10 ND					
	ND	0.17	EPA 8270D	7-13-15	7-13-15	
Acenaphthene	ND	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
4-Nitrophenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,4-Dinitrotoluene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Dibenzofuran	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Diethylphthalate	ND	0.17	EPA 8270D	7-13-15	7-13-15	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270D	7-13-15	7-13-15	
4-Nitroaniline	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Fluorene	ND	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	7-13-15	7-13-15	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270D	7-13-15	7-13-15	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270D	7-13-15	7-13-15	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Hexachlorobenzene	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Pentachlorophenol	ND	0.17	EPA 8270D	7-13-15	7-13-15	
Phenanthrene	0.026	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Anthracene	0.023	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Carbazole	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Di-n-butylphthalate	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Fluoranthene	0.022	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Benzidine	ND	0.35	EPA 8270D	7-13-15	7-13-15	
Pyrene	0.021	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Butylbenzylphthalate	ND	0.035	EPA 8270D	7-13-15	7-13-15	
bis-2-Ethylhexyladipate	ND	0.035	EPA 8270D	7-13-15	7-13-15	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	7-13-15	7-13-15	
Benzo[a]anthracene	0.013	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Chrysene	0.021	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
bis(2-Ethylhexyl)phthalate	0.051	0.035	EPA 8270D	7-13-15	7-13-15	
Di-n-octylphthalate	ND	0.035	EPA 8270D	7-13-15	7-13-15	
Benzo[b]fluoranthene	0.035	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Benzo(j,k)fluoranthene	ND	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Benzo[a]pyrene	0.013	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Indeno[1,2,3-cd]pyrene	0.020	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Dibenz[a,h]anthracene	ND	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Benzo[g,h,i]perylene	0.019	0.0069	EPA 8270D/SIM	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	67	31 - 110				
Phenol-d6	72	34 - 109				
Nitrobenzene-d5	62	30 - 109				
2-Fluorobiphenyl	76	39 - 103				
2,4,6-Tribromophenol	92	25 - 120				
Terphenyl-d14	80	40 - 117				

Project: 0570-133-02

SEMIVOLATILES EPA 8270D/SIM

page 1 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	P2A-B8-2-3		otilou	11000100	7u.y 20 u	1 1490
Laboratory ID:	07-071-12					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Pyridine	ND	0.36	EPA 8270D	7-13-15	7-13-15	
Phenol	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Aniline	ND	0.18	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	7-13-15	7-13-15	
2-Chlorophenol	ND	0.036	EPA 8270D	7-13-15	7-13-15	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	7-13-15	7-13-15	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Benzyl alcohol	ND	0.18	EPA 8270D	7-13-15	7-13-15	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	7-13-15	7-13-15	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	7-13-15	7-13-15 7-13-15	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15	
Hexachloroethane	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15	
Nitrobenzene	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
Isophorone	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15	
2-Nitrophenol	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
Naphthalene	0.079	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
4-Chloroaniline	ND	0.18	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
Hexachlorobutadiene	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2-Methylnaphthalene	0.10	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1-Methylnaphthalene	0.097	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	7-13-15	7-13-15 7-13-15	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2-Chloronaphthalene	ND ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2-Nitroaniline	ND ND	0.036	EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1,4-Dinitrobenzene	ND ND	0.036	EPA 8270D EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
Dimethylphthalate	ND ND	0.036	EPA 8270D EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1,3-Dinitrobenzene	ND ND	0.036	EPA 8270D EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
2,6-Dinitrotoluene	ND ND	0.036	EPA 8270D EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
•	ND ND	0.036	EPA 8270D EPA 8270D	7-13-15 7-13-15	7-13-15 7-13-15	
1,2-Dinitrobenzene	0.029	0.036	EPA 8270D EPA 8270D/SIM	7-13-15 7-13-15	7-13-15 7-13-15	
Acenaphthylene	0.029 ND			7-13-15 7-13-15		
3-Nitroaniline	שא	0.036	EPA 8270D	1-13-15	7-13-15	

Project: 0570-133-02

SEMIVOLATILES EPA 8270D/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	P2A-B8-2-3			-	-	
Laboratory ID:	07-071-12					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	7-13-15	7-13-15	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
4-Nitrophenol	ND	0.036	EPA 8270D	7-13-15	7-13-15	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Dibenzofuran	ND	0.036	EPA 8270D	7-13-15	7-13-15	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	7-13-15	7-13-15	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Diethylphthalate	ND	0.18	EPA 8270D	7-13-15	7-13-15	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	7-13-15	7-13-15	
4-Nitroaniline	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Fluorene	0.0088	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	7-13-15	7-13-15	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	7-13-15	7-13-15	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	7-13-15	7-13-15	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Hexachlorobenzene	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Pentachlorophenol	ND	0.18	EPA 8270D	7-13-15	7-13-15	
Phenanthrene	0.089	0.036	EPA 8270D	7-13-15	7-13-15	
Anthracene	0.031	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
Carbazole	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Di-n-butylphthalate	0.041	0.036	EPA 8270D	7-13-15	7-13-15	
Fluoranthene	0.054	0.036	EPA 8270D	7-13-15	7-13-15	
Benzidine	ND	0.36	EPA 8270D	7-13-15	7-13-15	
Pyrene	0.053	0.036	EPA 8270D	7-13-15	7-13-15	
Butylbenzylphthalate	ND	0.036	EPA 8270D	7-13-15	7-13-15	
bis-2-Ethylhexyladipate	ND	0.036	EPA 8270D	7-13-15	7-13-15	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	7-13-15	7-13-15	
Benzo[a]anthracene	0.039	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
Chrysene	0.041	0.036	EPA 8270D	7-13-15	7-13-15	
bis(2-Ethylhexyl)phthalate	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Di-n-octylphthalate	ND	0.036	EPA 8270D	7-13-15	7-13-15	
Benzo[b]fluoranthene	0.050	0.036	EPA 8270D	7-13-15	7-13-15	
Benzo(j,k)fluoranthene	0.013	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
Benzo[a]pyrene	0.031	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
Indeno[1,2,3-cd]pyrene	0.031	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
Dibenz[a,h]anthracene	0.0093	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
Benzo[g,h,i]perylene	0.028	0.0073	EPA 8270D/SIM	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	49	31 - 110				
Phenol-d6	47	34 - 109				
Nitrobenzene-d5	64	30 - 109				
2-Fluorobiphenyl	71	39 - 103				
2,4,6-Tribromophenol	83	25 - 120				
Terphenyl-d14	70	40 - 117				

Project: 0570-133-02

PAHs EPA 8270D/SIM

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
P2A-B10-1-2					
07-071-02					
0.033	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.063	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.058	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.077	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.0092	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.012	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.012	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.021	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
0.012	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Percent Recovery	Control Limits				
70	32 - 114				
70	33 - 121				
78	31 - 116				
	P2A-B10-1-2 07-071-02 0.033 0.063 0.058 ND ND ND 0.077 ND 0.0072 0.012 0.012 0.012 ND	P2A-B10-1-2 07-071-02 0.033 0.0078 0.058 0.0078 ND 0.0078 ND 0.0078 ND 0.0078 ND 0.0078 ND 0.0078 ND 0.0078 0.0092 0.0078 0.012 0.0078 0.012 0.0078 0.012 0.0078 ND 0.0078 <td>P2A-B10-1-2 07-071-02 0.033 0.0078 EPA 8270D/SIM 0.063 0.0078 EPA 8270D/SIM 0.058 0.0078 EPA 8270D/SIM ND 0.0078 EPA 8270D/SIM 0.0092 0.0078 EPA 8270D/SIM 0.012 0.0078 EPA 8270D/SIM 0.012 0.0078 EPA 8270D/SIM 0.012 0.0078 EPA 8270D/SIM ND 0.0078</td> <td>Result PQL Method Prepared P2A-B10-1-2 07-071-02 0.033 0.0078 EPA 8270D/SIM 7-14-15 0.063 0.0078 EPA 8270D/SIM 7-14-15 0.058 0.0078 EPA 8270D/SIM 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 ND <td< td=""><td>Result PQL Method Prepared Analyzed P2A-B10-1-2 07-071-02 0.033 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.063 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.058 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.077 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.0092 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15</td></td<></td>	P2A-B10-1-2 07-071-02 0.033 0.0078 EPA 8270D/SIM 0.063 0.0078 EPA 8270D/SIM 0.058 0.0078 EPA 8270D/SIM ND 0.0078 EPA 8270D/SIM 0.0092 0.0078 EPA 8270D/SIM 0.012 0.0078 EPA 8270D/SIM 0.012 0.0078 EPA 8270D/SIM 0.012 0.0078 EPA 8270D/SIM ND 0.0078	Result PQL Method Prepared P2A-B10-1-2 07-071-02 0.033 0.0078 EPA 8270D/SIM 7-14-15 0.063 0.0078 EPA 8270D/SIM 7-14-15 0.058 0.0078 EPA 8270D/SIM 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 ND <td< td=""><td>Result PQL Method Prepared Analyzed P2A-B10-1-2 07-071-02 0.033 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.063 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.058 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.077 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.0092 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15</td></td<>	Result PQL Method Prepared Analyzed P2A-B10-1-2 07-071-02 0.033 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.063 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.058 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.077 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.0092 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 0.012 0.0078 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0078 EPA 8270D/SIM 7-14-15

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B9-1-2					
Laboratory ID:	07-071-06					
Naphthalene	0.45	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
2-Methylnaphthalene	0.65	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
1-Methylnaphthalene	0.58	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthylene	0.079	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthene	0.031	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Fluorene	0.073	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Phenanthrene	0.45	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Anthracene	0.075	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Fluoranthene	0.22	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Pyrene	0.21	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]anthracene	0.14	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Chrysene	0.18	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[b]fluoranthene	0.21	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo(j,k)fluoranthene	0.034	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]pyrene	0.097	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Indeno(1,2,3-c,d)pyrene	0.11	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Dibenz[a,h]anthracene	0.016	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[g,h,i]perylene	0.096	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	79	32 - 114				
Pyrene-d10	72	33 - 121				
Ternhenyl-d14	70	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B7-1-2					
Laboratory ID:	07-071-15					
Naphthalene	0.49	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
2-Methylnaphthalene	0.52	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
1-Methylnaphthalene	0.37	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthylene	0.31	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthene	0.051	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Fluorene	0.065	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Phenanthrene	0.58	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Anthracene	0.47	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Fluoranthene	0.45	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Pyrene	0.35	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]anthracene	0.27	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Chrysene	0.31	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[b]fluoranthene	0.38	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo(j,k)fluoranthene	0.067	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]pyrene	0.17	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Indeno(1,2,3-c,d)pyrene	0.27	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Dibenz[a,h]anthracene	0.037	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[g,h,i]perylene	0.19	0.0075	EPA 8270D/SIM	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	77	32 - 114				
Pyrene-d10	69	33 - 121				
Terphenyl-d14	82	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

5 5				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B5-1-2					
Laboratory ID:	07-071-19					
Naphthalene	0.22	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
2-Methylnaphthalene	0.36	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
1-Methylnaphthalene	0.34	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthylene	0.030	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthene	0.021	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Fluorene	0.037	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Phenanthrene	0.40	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Anthracene	0.028	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Fluoranthene	0.15	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Pyrene	0.15	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]anthracene	0.085	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Chrysene	0.13	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[b]fluoranthene	0.11	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo(j,k)fluoranthene	0.022	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]pyrene	0.065	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Indeno(1,2,3-c,d)pyrene	0.058	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Dibenz[a,h]anthracene	0.010	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[g,h,i]perylene	0.051	0.0078	EPA 8270D/SIM	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	79	32 - 114				
Pyrene-d10	71	33 - 121				
Terphenyl-d14	81	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

Analysia	Dogult	DOL	Mathad	Date	Date	Flores
Analyte Client ID:	Result P2A-B4-1-2	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	07-071-23					
Naphthalene	0.46	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
2-Methylnaphthalene	0.73	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
1-Methylnaphthalene	0.72	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Acenaphthylene	0.19	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Acenaphthene	1.1	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Fluorene	0.81	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Phenanthrene	5.7	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Anthracene	1.7	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Fluoranthene	2.8	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Pyrene	3.6	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Benzo[a]anthracene	2.0	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Chrysene	2.0	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Benzo[b]fluoranthene	1.6	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Benzo(j,k)fluoranthene	0.60	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Benzo[a]pyrene	1.5	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Indeno(1,2,3-c,d)pyrene	0.71	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Dibenz[a,h]anthracene	0.15	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Benzo[g,h,i]perylene	0.59	0.15	EPA 8270D/SIM	7-14-15	7-15-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	69	32 - 114				
Pyrene-d10	70	33 - 121				
Townbows I ald A	00	24 440				

Project: 0570-133-02

PAHs EPA 8270D/SIM

Analyte Res	sult PQL	Method			
		Michiga	Prepared	Analyzed	Flags
Client ID: P2A-E	32-1-2				
_aboratory ID: 07-07	71-27				
Naphthalene 0.	35 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
2-Methylnaphthalene 0.	31 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
I-Methylnaphthalene 0.:	26 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Acenaphthylene 0.	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Acenaphthene 0.0	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Fluorene 0.0	41 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Phenanthrene 0.	47 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Anthracene 0. :	20 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Fluoranthene 0. :	34 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Pyrene 0. :	31 0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Benzo[a]anthracene 0.:	0.041	EPA 8270D/SIM	7-14-15	7-17-15	
Chrysene 0. :	0.041	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo[b]fluoranthene 0.3	37 0.041	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo(j,k)fluoranthene 0.0	0.041	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo[a]pyrene 0.	16 0.041	EPA 8270D/SIM	7-14-15	7-17-15	
ndeno(1,2,3-c,d)pyrene 0.	15 0.041	EPA 8270D/SIM	7-14-15	7-17-15	
Dibenz[a,h]anthracene N	D 0.041	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo[g,h,i]perylene 0.	0.041	EPA 8270D/SIM	7-14-15	7-17-15	
Surrogate: Percent l	Recovery Control Limi	ts			
2-Fluorobiphenyl 8	4 32 - 114				
Pyrene-d10 7	2 33 - 121				
Terphenyl-d14 8	8 31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

Analysia	Result	DOL	Mathad	Date	Date	Flores
Analyte Client ID:	P2A-B1-0-1	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	07-071-30		=======================================			
Naphthalene	0.11	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
2-Methylnaphthalene	0.13	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
1-Methylnaphthalene	0.13	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Acenaphthylene	0.029	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Acenaphthene	ND	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Fluorene	0.020	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Phenanthrene	0.19	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Anthracene	0.040	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Fluoranthene	0.10	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Pyrene	0.11	0.016	EPA 8270D/SIM	7-14-15	7-16-15	
Benzo[a]anthracene	0.078	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Chrysene	0.11	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo[b]fluoranthene	0.11	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo(j,k)fluoranthene	ND	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo[a]pyrene	0.068	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Indeno(1,2,3-c,d)pyrene	0.056	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Dibenz[a,h]anthracene	ND	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Benzo[g,h,i]perylene	0.067	0.039	EPA 8270D/SIM	7-14-15	7-17-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	81	32 - 114				
Pyrene-d10	72	33 - 121				
Town born of ald 4	0.4	04 440				

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B1-1-2					
Laboratory ID:	07-071-31					
Naphthalene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
2-Methylnaphthalene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
1-Methylnaphthalene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthylene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Acenaphthene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Fluorene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Phenanthrene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Anthracene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Fluoranthene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Pyrene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]anthracene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Chrysene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[b]fluoranthene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo(j,k)fluoranthene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[a]pyrene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Dibenz[a,h]anthracene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Benzo[g,h,i]perylene	ND	0.0083	EPA 8270D/SIM	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	73	32 - 114				
Pyrene-d10	72	33 - 121				
Terphenyl-d14	88	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

3 0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B9-3-4					
Laboratory ID:	07-071-08					
Naphthalene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
2-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
1-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthylene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Fluorene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Phenanthrene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Anthracene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Fluoranthene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Pyrene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Chrysene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[g,h,i]perylene	ND	0.0081	EPA 8270D/SIM	7-21-15	7-23-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	73	32 - 114				
Pyrene-d10	69	33 - 121				
Terphenyl-d14	65	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
P2A-B7-3-4					
07-071-17					
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
ND	0.0085	EPA 8270D/SIM	7-21-15	7-23-15	
Percent Recovery	Control Limits				
74	32 - 114				
71	33 - 121				
65	31 - 116				
	P2A-B7-3-4 07-071-17 ND	P2A-B7-3-4 07-071-17 ND 0.0085 Percent Recovery Control Limits 74 32 - 114 71 33 - 121	P2A-B7-3-4 07-071-17 0.0085 EPA 8270D/SIM ND 0.0085 EPA 8270D/SIM	Result PQL Method Prepared P2A-B7-3-4 07-071-17 0.0085 EPA 8270D/SIM 7-21-15 ND 0.0085 EPA 8270D/SIM<	P2A-B7-3-4 07-071-17 ND 0.0085 EPA 8270D/SIM 7-21-15 7-23-15 ND 0.0085 EPA 8270D/SIM

Project: 0570-133-02

PAHs EPA 8270D/SIM

5 5				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B5-3-4					
Laboratory ID:	07-071-21					
Naphthalene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Fluorene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Anthracene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Pyrene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Chrysene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	7-21-15	7-23-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	71	32 - 114				
Pyrene-d10	68	33 - 121				
Terphenyl-d14	61	31 - 116				

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B4-3-4					
Laboratory ID:	07-071-25					
Naphthalene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
2-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
1-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthylene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Fluorene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Phenanthrene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Anthracene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Fluoranthene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Pyrene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]anthracene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Chrysene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[b]fluoranthene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo(j,k)fluoranthene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]pyrene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Dibenz[a,h]anthracene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[g,h,i]perylene	ND	0.0084	EPA 8270D/SIM	7-21-15	7-23-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	78	32 - 114				
Pyrene-d10	80	33 - 121				
Terphenyl-d14	71	31 - 116				
=						

Project: 0570-133-02

PAHs EPA 8270D/SIM

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	P2A-B2-3-4					
Laboratory ID:	07-071-29					
Naphthalene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
2-Methylnaphthalene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
1-Methylnaphthalene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthylene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Fluorene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Phenanthrene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Anthracene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Fluoranthene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Pyrene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Chrysene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[g,h,i]perylene	ND	0.0079	EPA 8270D/SIM	7-21-15	7-23-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	80	32 - 114				
Pyrene-d10	76	33 - 121				
Terphenyl-d14	69	31 - 116				

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-071-02 P2A-B10-1-2					
Arsenic	ND	12	6010C	7-13-15	7-13-15	
Barium	110	2.9	6010C	7-13-15	7-13-15	
Cadmium	ND	0.59	6010C	7-13-15	7-13-15	
Chromium	37	0.59	6010C	7-13-15	7-13-15	
Lead	24	5.9	6010C	7-13-15	7-13-15	
Mercury	ND	0.29	7471B	7-13-15	7-13-15	
Selenium	ND	12	6010C	7-13-15	7-13-15	
Silver	ND	1.2	6010C	7-13-15	7-13-15	
Lab ID: Client ID:	07-071-06 P2A-B9-1-2					
Arsenic	ND	12	6010C	7-13-15	7-13-15	
Barium	280	3.1	6010C	7-13-15	7-13-15	
Cadmium	2.6	0.62	6010C	7-13-15	7-13-15	
Chromium	17	0.62	6010C	7-13-15	7-13-15	
Lead	81	6.2	6010C	7-13-15	7-13-15	
Mercury	6.3	3.1	7471B	7-13-15	7-13-15	
Selenium	ND	12	6010C	7-13-15	7-13-15	
Silver	ND	1.2	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-071-10					
Client ID:	P2A-B8-0-1					
Arsenic	ND	10	6010C	7-13-15	7-13-15	
Barium	68	2.6	6010C	7-13-15	7-13-15	
Cadmium	ND	0.52	6010C	7-13-15	7-13-15	
Chromium	25	0.52	6010C	7-13-15	7-13-15	
Lead	45	5.2	6010C	7-13-15	7-13-15	
Mercury	ND	0.26	7471B	7-13-15	7-13-15	
Selenium	ND	10	6010C	7-13-15	7-13-15	
Silver	ND	1.0	6010C	7-13-15	7-13-15	
Lab ID:	07-071-12					
Client ID:	P2A-B8-2-3					
Arsenic	ND	11	6010C	7-13-15	7-13-15	
Barium	98	2.7	6010C	7-13-15	7-13-15	
Cadmium	ND	0.55	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

Lead

Mercury

Selenium

Silver

72

ND

ND

ND

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-071-15	I QL	LI A Metiloa	Trepared	Analyzeu	i iags
Client ID:	P2A-B7-1-2					
Arsenic	14	11	6010C	7-13-15	7-13-15	
Barium	230	2.8	6010C	7-13-15	7-13-15	
Cadmium	ND	0.56	6010C	7-13-15	7-13-15	
Chromium	24	0.56	6010C	7-13-15	7-13-15	
Lead	120	5.6	6010C	7-13-15	7-13-15	
Mercury	ND	0.28	7471B	7-13-15	7-13-15	
Selenium	ND	11	6010C	7-13-15	7-13-15	
Silver	ND	1.1	6010C	7-13-15	7-13-15	
Lab ID:	07-071-19					
Client ID:	P2A-B5-1-2					
Arsenic	ND	12	6010C	7-13-15	7-13-15	
Barium	200	2.9	6010C	7-13-15	7-13-15	
Cadmium	ND	0.59	6010C	7-13-15	7-13-15	
Chromium	17	0.59	6010C	7-13-15	7-13-15	

6010C

7471B

6010C

6010C

7-13-15

7-13-15

7-13-15

7-13-15

7-13-15

7-13-15

7-13-15

7-13-15

5.9

0.29

12

1.2

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-071-22					
Client ID:	P2A-B4-0-1					
Arsenic	ND	11	6010C	7-13-15	7-13-15	
Barium	82	2.7	6010C	7-13-15	7-13-15	
Cadmium	ND	0.55	6010C	7-13-15	7-13-15	
Chromium	29	0.55	6010C	7-13-15	7-13-15	
Lead	88	5.5	6010C	7-13-15	7-13-15	
Mercury	0.94	0.27	7471B	7-13-15	7-13-15	
Selenium	ND	11	6010C	7-13-15	7-13-15	
Silver	ND	1.1	6010C	7-13-15	7-13-15	
Lab ID:	07-071-23					
Client ID:	P2A-B4-1-2					
Arsenic	ND	12	6010C	7-13-15	7-13-15	
Barium	140	2.9	6010C	7-13-15	7-13-15	
Cadmium	ND	0.58	6010C	7-13-15	7-13-15	
Chromium	19	0.58	6010C	7-13-15	7-13-15	
Lead	57	5.8	6010C	7-13-15	7-13-15	
Mercury	2.6	1.2	7471B	7-13-15	7-13-15	
Selenium	ND	12	6010C	7-13-15	7-13-15	
Silver	ND	1.2	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

	3 3 41 7			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-071-27					
Client ID:	P2A-B2-1-2					
Arsenic	ND	12	6010C	7-13-15	7-13-15	
Barium	230	3.1	6010C	7-13-15	7-13-15	
Cadmium	ND	0.62	6010C	7-13-15	7-13-15	
Chromium	21	0.62	6010C	7-13-15	7-13-15	
Lead	410	6.2	6010C	7-13-15	7-13-15	
Mercury	ND	0.31	7471B	7-13-15	7-13-15	
Selenium	ND	12	6010C	7-13-15	7-13-15	
Silver	ND	1.2	6010C	7-13-15	7-13-15	
Lab ID:	07-071-30					
Client ID:	P2A-B1-0-1					
Arsenic	15	12	6010C	7-13-15	7-13-15	
Barium	140	2.9	6010C	7-13-15	7-13-15	
Cadmium	0.66	0.59	6010C	7-13-15	7-13-15	
Chromium	24	0.59	6010C	7-13-15	7-13-15	
Lead	140	5.9	6010C	7-13-15	7-13-15	
Mercury	ND	0.29	7471B	7-13-15	7-13-15	
Selenium	ND	12	6010C	7-13-15	7-13-15	
Silver	ND	1.2	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	07-071-31					
Client ID:	P2A-B1-1-2					
Arsenic	ND	12	6010C	7-13-15	7-13-15	
Barium	140	3.1	6010C	7-13-15	7-13-15	
Cadmium	ND	0.62	6010C	7-13-15	7-13-15	
Chromium	51	0.62	6010C	7-13-15	7-13-15	
Lead	ND	6.2	6010C	7-13-15	7-13-15	
Mercury	ND	0.31	7471B	7-13-15	7-13-15	
Selenium	ND	12	6010C	7-13-15	7-13-15	
Silver	ND	1.2	6010C	7-13-15	7-13-15	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B

Matrix: Soil

			Date	Date	
Result	PQL	EPA Method	Prepared	Analyzed	Flags
07-071-08					
P2A-B9-3-4					
ND	0.60	6010C	7-23-15	7-23-15	
ND	0.30	7471B	7-23-15	7-23-15	
07-071-25					
P2A-B4-3-4					
ND	0.32	7471B	7-23-15	7-23-15	
07-071-29					
P2A-B2-3-4					
ND	5.9	6010C	7-23-15	7-23-15	
	07-071-08 P2A-B9-3-4 ND ND 07-071-25 P2A-B4-3-4 ND 07-071-29 P2A-B2-3-4	07-071-08 P2A-B9-3-4 ND 0.60 ND 0.30 07-071-25 P2A-B4-3-4 ND 0.32 07-071-29 P2A-B2-3-4	07-071-08 P2A-B9-3-4 ND 0.60 6010C ND 0.30 7471B 07-071-25 P2A-B4-3-4 ND 0.32 7471B 07-071-29 P2A-B2-3-4	Result PQL EPA Method Prepared 07-071-08 P2A-B9-3-4 P2A-B9-3-4 P2A-B9-3-4 ND 0.60 6010C 7-23-15 ND 0.30 7471B 7-23-15 07-071-25 P2A-B4-3-4 P2A-B2-3-4 7471B 7-23-15	Result PQL EPA Method Prepared Analyzed 07-071-08 07-071-08 7-23-15

Project: 0570-133-02

NWTPH-HCID QUALITY CONTROL

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK				•	•	
Laboratory ID:	MB0713S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	7-13-15	7-14-15	
Diesel Range Organics	ND	50	NWTPH-HCID	7-13-15	7-14-15	
Lube Oil Range Organics	ND	100	NWTPH-HCID	7-13-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	123	50-150				

Project: 0570-133-02

NWTPH-Dx **QUALITY CONTROL**

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0720S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-21-15	7-20-15	_
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-21-15	7-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	62	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	07-14	45-02								
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Ternhenyl						79 93	50-150			

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0713S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Chloromethane	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Bromomethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Chloroethane	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Acetone	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
lodomethane	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
Carbon Disulfide	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Methylene Chloride	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Vinyl Acetate	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
2-Butanone	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
Bromochloromethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Chloroform	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Benzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Trichloroethene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Dibromomethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0084	EPA 8260C	7-13-15	7-13-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
Toluene	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Lahanatan ID.	MD074004					
Laboratory ID:	MB0713S1	0.0040	EDA 00000	7.40.45	7 40 45	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
2-Hexanone	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Chlorobenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Ethylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
m,p-Xylene	ND	0.0020	EPA 8260C	7-13-15	7-13-15	
o-Xylene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Styrene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Bromoform	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Isopropylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Bromobenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
n-Propylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
tert-Butylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
sec-Butylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
n-Butylbenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-13-15	7-13-15	
Naphthalene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-13-15	7-13-15	
Surrogate:	Percent Recovery	Control Limits		· · ·	-	
Dibromofluoromethane	114	76-131				
Toluene-d8	109	82-129				
4-Bromofluorobenzene	104	79-126				

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 1 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0714S1						
Dichlorodifluoromethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Chloromethane	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
Vinyl Chloride	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Bromomethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Chloroethane	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
Trichlorofluoromethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Acetone	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
lodomethane	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
Carbon Disulfide	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Methylene Chloride	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
(trans) 1,2-Dichloroethene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Methyl t-Butyl Ether	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloroethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Vinyl Acetate	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
2,2-Dichloropropane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
(cis) 1,2-Dichloroethene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
2-Butanone	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
Bromochloromethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Chloroform	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,1,1-Trichloroethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Carbon Tetrachloride	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,1-Dichloropropene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Benzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2-Dichloroethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Trichloroethene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2-Dichloropropane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Dibromomethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Bromodichloromethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
2-Chloroethyl Vinyl Ether	ND	0.0073		EPA 8260C	7-14-15	7-14-15	
(cis) 1,3-Dichloropropene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Methyl Isobutyl Ketone	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
Toluene	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
(trans) 1,3-Dichloropropene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	

Project: 0570-133-02

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

page 2 of 2

					Date	Date	
Analyte	Result	PQL	MDL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0714S1						
1,1,2-Trichloroethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Tetrachloroethene	ND	0.0010	0.00029	EPA 8260C	7-14-15	7-14-15	
1,3-Dichloropropane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
2-Hexanone	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
Dibromochloromethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2-Dibromoethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Chlorobenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,1,1,2-Tetrachloroethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Ethylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
m,p-Xylene	ND	0.0020		EPA 8260C	7-14-15	7-14-15	
o-Xylene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Styrene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Bromoform	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Isopropylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Bromobenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,1,2,2-Tetrachloroethane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichloropropane	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
n-Propylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
2-Chlorotoluene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
4-Chlorotoluene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,3,5-Trimethylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
tert-Butylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2,4-Trimethylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
sec-Butylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,3-Dichlorobenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
p-Isopropyltoluene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,4-Dichlorobenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2-Dichlorobenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
n-Butylbenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2-Dibromo-3-chloropropane	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
1,2,4-Trichlorobenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Hexachlorobutadiene	ND	0.0050		EPA 8260C	7-14-15	7-14-15	
Naphthalene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
1,2,3-Trichlorobenzene	ND	0.0010		EPA 8260C	7-14-15	7-14-15	
Surrogate:	Percent Recovery	Control Limits					
Dibromofluoromethane	117	76-131					
Toluene-d8	107	82-129					
4-Bromofluorobenzene	106	79-126					

Project: 0570-133-02

VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Reco	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	13S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0587	0.0574	0.0500	0.0500	117	115	66-129	2	15	
Benzene	0.0583	0.0581	0.0500	0.0500	117	116	71-123	0	15	
Trichloroethene	0.0518	0.0512	0.0500	0.0500	104	102	75-115	1	15	
Toluene	0.0539	0.0530	0.0500	0.0500	108	106	75-120	2	15	
Chlorobenzene	0.0497	0.0490	0.0500	0.0500	99	98	75-121	1	15	
Surrogate:										
Dibromofluoromethane					112	106	76-131			
Toluene-d8					103	99	82-129			
4-Bromofluorobenzene					102	97	79-126			

Project: 0570-133-02

VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rece	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	14S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0575	0.0577	0.0500	0.0500	115	115	66-129	0	15	
Benzene	0.0573	0.0572	0.0500	0.0500	115	114	71-123	0	15	
Trichloroethene	0.0515	0.0502	0.0500	0.0500	103	100	75-115	3	15	
Toluene	0.0532	0.0532	0.0500	0.0500	106	106	75-120	0	15	
Chlorobenzene	0.0488	0.0492	0.0500	0.0500	98	98	75-121	1	15	
Surrogate:										
Dibromofluoromethane					111	109	76-131			
Toluene-d8					102	99	82-129			
4-Bromofluorobenzene					98	99	79-126			

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C METHOD BLANK QUALITY CONTROL

Page 1 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0721S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Chloromethane	ND	0.0050	EPA 8260C	7-21-15	7-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Bromomethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Chloroethane	ND	0.0050	EPA 8260C	7-21-15	7-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Iodomethane	ND	0.0050	EPA 8260C	7-21-15	7-21-15	
Methylene Chloride	ND	0.0050	EPA 8260C	7-21-15	7-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Chloroform	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Trichloroethene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	7-21-15	7-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C METHOD BLANK QUALITY CONTROL

Page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0721S1					
Laboratory ID:	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,1,2-Trichloroethane Tetrachloroethene	ND ND			7-21-15 7-21-15	7-21-15 7-21-15	
		0.0010	EPA 8260C			
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Bromoform	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-21-15	7-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-21-15	7-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-21-15	7-21-15	
Surrogate:	Percent Recovery	Control Limits				·
Dibromofluoromethane	110	76-131				
Toluene-d8	108	82-129				
4-Bromofluorobenzene	109	79-126				

Project: 0570-133-02

HALOGENATED VOLATILES EPA 8260C SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rece	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	21S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0479	0.0461	0.0500	0.0500	96	92	66-129	4	15	
Benzene	0.0493	0.0489	0.0500	0.0500	99	98	71-123	1	15	
Trichloroethene	0.0508	0.0518	0.0500	0.0500	102	104	75-115	2	15	
Toluene	0.0515	0.0527	0.0500	0.0500	103	105	75-120	2	15	
Chlorobenzene	0.0504	0.0501	0.0500	0.0500	101	100	75-121	1	15	
Surrogate:										
Dibromofluoromethane					98	99	76-131			
Toluene-d8					99	101	82-129			
4-Bromofluorobenzene					99	100	79-126			

Project: 0570-133-02

SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

page 1 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Analyte	Result	I QL	Wethou	Перагеи	Analyzea	i iags
Laboratory ID:	MB0713S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Pyridine	ND	0.33	EPA 8270D	7-13-15	7-13-15	
Phenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Aniline	ND	0.17	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2-Chlorophenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Benzyl alcohol	ND	0.17	EPA 8270D	7-13-15	7-13-15	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	7-13-15	7-13-15	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	7-13-15	7-13-15	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Hexachloroethane	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Nitrobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Isophorone	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2-Nitrophenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Naphthalene	ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
4-Chloroaniline	ND	0.17	EPA 8270D	7-13-15	7-13-15	
Hexachlorobutadiene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2-Chloronaphthalene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2-Nitroaniline	ND	0.033	EPA 8270D	7-13-15	7-13-15	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Dimethylphthalate	ND	0.033	EPA 8270D	7-13-15	7-13-15	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
3-Nitroaniline	ND	0.033	EPA 8270D	7-13-15	7-13-15	

Project: 0570-133-02

SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

page 2 of 2

Laboratory ID: MB0713S1 2.4-Dinitrophenol ND 0.17 EPA 8270D 7-13-15 7-13-15 Acenaphthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Acenaphthene ND 0.033 EPA 8270D 7-13-15 7-13-15 2.4-Dinitrotoluene ND 0.033 EPA 8270D 7-13-15 7-13-15 Dibenzofuran ND 0.033 EPA 8270D 7-13-15 7-13-15 2.3.5,6-Tetrachlorophenol ND 0.033 EPA 8270D 7-13-15 7-13-15 Diethylphthalate ND 0.17 EPA 8270D 7-13-15 7-13-15 Diethylphthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Pluorene ND 0.033 EPA 8270D 7-13-15 7-13-15 Pluorene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Pluorene ND 0.0067 EPA 8270D 7-13-15 7-13-15 Pluorene ND 0.033 EPA 8270D 7-13-15 7-13-15 Pentachlorophenol ND 0.033 EPA 8270D 7-13-15 7-13-15 Pentachlorophenol ND 0.033 EPA 8270D 7-13-15 7-13-15 Pentachlorophenol ND 0.033 EPA 8270D 7-13-15 7-13-15 Phenanthrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Phenanthrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Phenanthrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Provene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Provene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Provene ND 0.0067 EPA 8270D/SIM 7-1	Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
2.4-Dinitrophenol ND	Laboratory ID:	MP0712S1					
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3,3'-Dichlorobenzidine ND 0.17 EPA 8270D 7-13-15 7-13-15 Benzo[a]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Chrysene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dissigner ND 0.033 EPA 8270D 7-13-15 7-13-15 Di-n-octylphthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Benzo[b]fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[j,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[j,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[j,k,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[j,k,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Index of the complex	Butylbenzylphthalate	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Benzo[a]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Chrysene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 bis(2-Ethylhexyl)phthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Di-n-octylphthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Benzo[b]fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphe	bis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Chrysene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 bis(2-Ethylhexyl)phthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Di-n-octylphthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Benzo[b]fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo(j,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-F	3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	7-13-15	7-13-15	
bis(2-Ethylhexyl)phthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Di-n-octylphthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Benzo[b]fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo(j,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2-Fluorobiphenyl 73 39 - 103 </td <td>Benzo[a]anthracene</td> <td>ND</td> <td>0.0067</td> <td>EPA 8270D/SIM</td> <td>7-13-15</td> <td>7-13-15</td> <td></td>	Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
Di-n-octylphthalate ND 0.033 EPA 8270D 7-13-15 7-13-15 Benzo[b]fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo(j,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120	Chrysene	ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
Benzo[b]fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo(j,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120	bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Benzo(j,k)fluoranthene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120	Di-n-octylphthalate	ND	0.033	EPA 8270D	7-13-15	7-13-15	
Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 25 - 120	Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
Benzo[a]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 25 - 120		ND	0.0067	EPA 8270D/SIM	7-13-15	7-13-15	
Indeno[1,2,3-cd]pyrene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120	- ·	ND			7-13-15		
Dibenz[a,h]anthracene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120		ND				7-13-15	
Benzo[g,h,i]perylene ND 0.0067 EPA 8270D/SIM 7-13-15 7-13-15 Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120		ND	0.0067				
Surrogate: Percent Recovery Control Limits 2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120					7-13-15		
2-Fluorophenol 79 31 - 110 Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120		Percent Recovery	Control Limits				
Phenol-d6 77 34 - 109 Nitrobenzene-d5 68 30 - 109 2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120		_	31 - 110				
2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120	•	77	34 - 109				
2-Fluorobiphenyl 73 39 - 103 2,4,6-Tribromophenol 93 25 - 120	Nitrobenzene-d5	68	30 - 109				
2,4,6-Tribromophenol 93 25 - 120		73					
		72	40 - 117				

Project: 0570-133-02

SEMIVOLATILES EPA 8270D/SIM MS/MSD QUALITY CONTROL

					Source	e Percen		Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-0	56-03									
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.710	0.826	1.33	1.33	ND	53	62	33 - 111	15	33	_
2-Chlorophenol	0.807	0.918	1.33	1.33	ND	61	69	34 - 107	13	39	
1,4-Dichlorobenzene	0.408	0.479	0.667	0.667	ND	61	72	35 - 106	16	39	
n-Nitroso-di-n-propylamine	0.347	0.411	0.667	0.667	ND	52	62	34 - 106	17	33	
1,2,4-Trichlorobenzene	0.404	0.492	0.667	0.667	ND	61	74	35 - 106	20	39	
4-Chloro-3-methylphenol	0.838	0.955	1.33	1.33	ND	63	72	44 - 114	13	22	
Acenaphthene	0.402	0.457	0.667	0.667	ND	60	69	37 - 108	13	25	
4-Nitrophenol	0.801	0.889	1.33	1.33	ND	60	67	35 - 111	10	24	
2,4-Dinitrotoluene	0.386	0.450	0.667	0.667	ND	58	67	33 - 113	15	23	
Pentachlorophenol	0.680	0.793	1.33	1.33	ND	51	60	25 - 110	15	34	
Pyrene	0.378	0.441	0.667	0.667	ND	57	66	37 - 120	15	36	
Surrogate:											_
2-Fluorophenol						65	<i>7</i> 5	31 - 110			
Phenol-d6						64	73	34 - 109			
Nitrobenzene-d5						58	68	30 - 109			
2-Fluorobiphenyl						64	73	39 - 103			
2,4,6-Tribromophenol						80	88	25 - 120			
Terphenyl-d14						59	70	40 - 117			

Project: 0570-133-02

PAHS EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0714S1					
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
ND	0.0067	EPA 8270D/SIM	7-14-15	7-14-15	
Percent Recovery	Control Limits				·
76	32 - 114				
79	33 - 121				
90	31 - 116				
	MB0714S1 ND	ND 0.0067 Percent Recovery Control Limits 76 32 - 114 79 33 - 121	ND 0.0067 EPA 8270D/SIM ND 0.0067 EPA 8	Result PQL Method Prepared MB0714S1 0.0067 EPA 8270D/SIM 7-14-15 ND 0.0067 EPA 8270D/SIM 7-14-15 <td< td=""><td>Result PQL Method Prepared Analyzed MB0714S1 ND 0.0067 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0067 EPA 8270D/SIM 7-14-15 7-14-15 <t< td=""></t<></td></td<>	Result PQL Method Prepared Analyzed MB0714S1 ND 0.0067 EPA 8270D/SIM 7-14-15 7-14-15 ND 0.0067 EPA 8270D/SIM 7-14-15 7-14-15 <t< td=""></t<>

Project: 0570-133-02

PAHS EPA 8270D/SIM MS/MSD QUALITY CONTROL

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-0	71-02									
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.153	0.194	0.167	0.167	0.0279	75	99	44 - 107	24	29	
Acenaphthylene	0.153	0.158	0.167	0.167	ND	92	95	44 - 121	3	27	
Acenaphthene	0.135	0.137	0.167	0.167	ND	81	82	47 - 109	1	26	
Fluorene	0.134	0.137	0.167	0.167	ND	80	82	49 - 115	2	28	
Phenanthrene	0.190	0.187	0.167	0.167	0.0658	74	73	45 - 114	2	26	
Anthracene	0.149	0.154	0.167	0.167	ND	89	92	43 - 140	3	27	
Fluoranthene	0.124	0.128	0.167	0.167	0.00787	70	72	44 - 126	3	27	
Pyrene	0.123	0.129	0.167	0.167	0.0107	67	71	43 - 125	5	27	
Benzo[a]anthracene	0.139	0.147	0.167	0.167	0.0107	77	82	42 - 134	6	27	
Chrysene	0.135	0.134	0.167	0.167	0.0180	70	69	45 - 114	1	27	
Benzo[b]fluoranthene	0.138	0.130	0.167	0.167	0.0102	77	72	38 - 131	6	33	
Benzo(j,k)fluoranthene	0.112	0.113	0.167	0.167	ND	67	68	44 - 114	1	34	
Benzo[a]pyrene	0.125	0.132	0.167	0.167	ND	75	79	40 - 136	5	29	
Indeno(1,2,3-c,d)pyrene	0.117	0.121	0.167	0.167	ND	70	72	45 - 126	3	30	
Dibenz[a,h]anthracene	0.113	0.120	0.167	0.167	ND	68	72	46 - 121	6	28	
Benzo[g,h,i]perylene	0.103	0.110	0.167	0.167	ND	62	66	43 - 120	7	31	
Surrogate:											
2-Fluorobiphenyl						74	74	32 - 114			
Pyrene-d10						74	<i>7</i> 5	33 - 121			
Terphenyl-d14						83	84	31 - 116			

Project: 0570-133-02

PAHs EPA 8270D/SIM **METHOD BLANK QUALITY CONTROL**

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0721S3					
Naphthalene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	7-21-15	7-23-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	80	32 - 114				
Pyrene-d10	82	33 - 121				
Ternhenyl-d14	75	31 - 116				

Terphenyl-d14 31 - 116 75

Project: 0570-133-02

PAHS EPA 8270D/SIM MS/MSD QUALITY CONTROL

					Source	Per	cent	Recovery	RPD			
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags	
MATRIX SPIKES												
Laboratory ID:	07-07	71-29										
	MS	MSD	MS	MSD		MS	MSD					
Naphthalene	0.144	0.140	0.167	0.167 0.167		86	84	44 - 107	3	29		
Acenaphthylene	0.141	0.137	0.167	0.167	ND	84	82	44 - 121	3	27		
Acenaphthene	0.150	0.145	0.167	0.167	ND	90	87	47 - 109	3	26		
Fluorene	0.153	0.145	0.167	0.167	ND	92	87	49 - 115	5	28		
Phenanthrene	0.147	0.138	0.167	0.167	ND	88	83	45 - 114	6	26		
Anthracene	0.183	0.172	0.167	0.167	ND	110	103	43 - 140	6	27		
Fluoranthene	0.144	0.138	0.167	0.167	ND	86	83	44 - 126	4	27		
Pyrene	0.141	0.144	0.167	0.167	ND	84	86	43 - 125	2	27		
Benzo[a]anthracene	0.135	0.131	0.167	0.167	ND	81	78	42 - 134	3	27		
Chrysene	0.145	0.140	0.167	0.167	ND	87	84	45 - 114	4	27		
Benzo[b]fluoranthene	0.140	0.135	0.167	0.167	ND	84	81	38 - 131	4	33		
Benzo(j,k)fluoranthene	0.137	0.135	0.167	0.167	ND	82	81	44 - 114	1	34		
Benzo[a]pyrene	0.138	0.134	0.167	0.167	ND	83	80	40 - 136	3	29		
Indeno(1,2,3-c,d)pyrene	0.138	0.133	0.167	0.167	ND	83	80	45 - 126	4	30		
Dibenz[a,h]anthracene	0.141	0.137	0.167	0.167	ND	84	82	46 - 121	3	28		
Benzo[g,h,i]perylene	0.136	0.131	0.167	0.167	ND	81	78	43 - 120	4	31		
Surrogate:												
2-Fluorobiphenyl						87	84	32 - 114				
Pyrene-d10						83	79	33 - 121				
Terphenyl-d14						<i>7</i> 5	73	31 - 116				

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B METHOD BLANK QUALITY CONTROL

Date Extracted: 7-13-15
Date Analyzed: 7-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0713SM1&MB0713S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B DUPLICATE QUALITY CONTROL

Date Extracted: 7-13-15
Date Analyzed: 7-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-077-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	67.8	67.0	1	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	25.1	24.7	2	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B MS/MSD QUALITY CONTROL

Date Extracted: 7-13-15
Date Analyzed: 7-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-077-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	83.6	84	86.1	86	3	
Barium	100	158	90	161	94	2	
Cadmium	50.0	45.0	90	45.3	91	1	
Chromium	100	118	93	117	92	0	
Lead	250	219	88	222	89	2	
Mercury	0.500	0.495	99	0.509	102	3	
Selenium	100	78.6	79	79.4	79	1	
Silver	25.0	20.3	81	20.7	83	2	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B METHOD BLANK QUALITY CONTROL

Date Extracted: 7-23-15
Date Analyzed: 7-23-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB723SM1&MB0723S1

Analyte	Method	Result	PQL
Cadmium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B DUPLICATE QUALITY CONTROL

Date Extracted: 7-23-15
Date Analyzed: 7-23-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-071-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	ND	ND	NA	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	

Project: 0570-133-02

TOTAL METALS EPA 6010C/7471B MS/MSD QUALITY CONTROL

Date Extracted: 7-23-15
Date Analyzed: 7-23-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-071-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	42.8	86	47.9	96	11	
Lead	250	208	83	232	93	11	
Mercury	0.500	0.497	99	0.501	100	1	

Date of Report: July 29, 2015 Samples Submitted: July 9, 2015 Laboratory Reference: 1507-071 Project: 0570-133-02

% MOISTURE

Date Analyzed: 7-13&21-15

Client ID	Lab ID	% Moisture
P2A-B10-1-2	07-071-02	15
P2A-B9-1-2	07-071-06	19
P2A-B9-3-4	07-071-08	17
P2A-B8-0-1	07-071-10	3
P2A-B8-2-3	07-071-12	9
P2A-B7-1-2	07-071-15	11
P2A-B7-3-4	07-071-17	21
P2A-B5-1-2	07-071-19	15
P2A-B5-3-4	07-071-21	17
P2A-B4-0-1	07-071-22	8
P2A-B4-1-2	07-071-23	14
P2A-B4-3-4	07-071-25	21
P2A-B2-1-2	07-071-27	19
P2A-B2-3-4	07-071-29	16
P2A-B1-0-1	07-071-30	15
P2A-B1-1-2	07-071-31	20



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical _____
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

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Chain of Custody

Page 1 of 4

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APPENDIX C Report Limitations and Guidelines for Use

APPENDIX C

REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This appendix provides information to help you manage your risks with respect to the use of this report.

Environmental Services are Performed for Specific Purposes, Persons and Projects

This report has been prepared for use by BCRA, Inc. This report may be made available to for review. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except BCRA, Inc. should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report is Based on a Unique Set of Project-Specific Factors

This report has been prepared for Hood Street-South 25th Street to South 21st Street in Tacoma, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

If a lending agency or other parties intend to place legal reliance on the product of our services, we require that those parties indicate in writing their acknowledgement that the scope of services provided, and the general conditions under which the services were rendered including the limitation of professional liability, are understood and accepted by them. This is to provide our firm with reasonable protection against openended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.



Environmental Regulations are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Subsurface Conditions can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Topsoil

For the purposes of this report, we consider topsoil to consist of generally fine-grained soil with an appreciable amount of organic matter based on visual examination, and to be unsuitable for direct support of the proposed improvements. However, the organic content and other mineralogical and gradational characteristics used to evaluate the suitability of soil for use in landscaping and agricultural purposes was not determined, nor considered in our analyses. Therefore, the information and recommendations in this report, and our logs and descriptions should not be used as a basis for estimating the volume of topsoil available for such purposes.

Most Environmental Findings are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Do Not Redraw the Exploration Logs

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design drawings. Only photographic or electronic reproduction is acceptable, but recognize that separating logs from the report can elevate risk.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations"



provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or site.

Geotechnical, Geologic and Geoenvironmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention, or assessment of the presence of Biological Pollutants in or around any structure. Accordingly, this report includes no interpretations, recommendations, findings, or conclusions for the purpose of detecting, preventing, assessing, or abating Biological Pollutants. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

