

**REMEDIAL INVESTIGATION / FEASIBILITY
STUDY**

**ULTRA CUSTOM CARE CLEANERS SITE
BOTHELL, WASHINGTON**

HWA Project No. 2007-098

**Prepared for
City of Bothell**

April 12, 2018



HWA GEOSCIENCES INC.

- *Geotechnical Engineering*
- *Hydrogeology*
- *Geoenvironmental Services*
- *Inspection & Testing*

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS.....	1
1. INTRODUCTION.....	1
1.1. GENERAL SITE INFORMATION	1
1.2. SITE LOCATION AND DESCRIPTION.....	1
1.3. REGULATORY FRAMEWORK	2
1.4. AUTHORIZATION / SCOPE OF WORK	3
1.5. OBJECTIVES.....	3
1.6. SITE HISTORY.....	3
1.7. SITE USE	4
2. FIELD INVESTIGATIONS.....	5
2.1 PREVIOUS ENVIRONMENTAL INVESTIGATIONS.....	5
2.2 SITE CHARACTERIZATION.....	12
2.2.1. Sampling and Monitoring	12
2.2.2. Topography	12
2.2.3. Site Geology.....	12
2.2.4. Site Hydrogeology	13
2.2.5. Surface Water.....	15
2.3 SAMPLING/ANALYTICAL RESULTS	15
2.3.1. Nature and Extent of Contamination	16
2.3.2. Contaminants of Concern	18
3. CONCEPTUAL SITE MODEL	20
3.1 PRIMARY CONTAMINANT SOURCES.....	20
3.2 PRIMARY RELEASE MECHANISMS	20
3.3 PRIMARY TRANSPORT MECHANISMS.....	20
3.4 POTENTIAL PATHWAY AND EXPOSURE ROUTES	21
3.4.1 Exposure Pathways of Concern	21
3.5 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS.....	22
3.6 ASSESSMENT OF RISK.....	22
4. PROPOSED CLEANUP STANDARDS.....	24
4.1 CONTAMINANT SPECIFIC STANDARDS.....	24
4.2 SOIL CLEANUP STANDARDS	24
4.2.1. Soil Cleanup Levels.....	24
4.2.2. Terrestrial Ecological Evaluation.....	24
4.2.3. Point of Compliance	24
4.3 GROUND WATER CLEANUP STANDARDS.....	25
4.3.1. Ground water Cleanup Levels	25
4.3.2 Point of Compliance.....	25
4.4 CLEANUP STANDARDS FOR OTHER MEDIA (INDOOR/AMBIENT AIR, SOIL GAS, SUB-SLAB SOIL GAS).....	26
5. INTERIM ACTION	29
6. FEASIBILITY STUDY.....	33

6.1 IDENTIFICATION OF CONTAMINATION TO BE REMEDIATED	33
6.2 SCREENING OF REMEDIAL TECHNOLOGIES.....	33
6.3 REMEDIATION TECHNOLOGIES.....	34
6.3.1 Source Control	34
6.3.1.1 Excavation and Off-site Disposal	34
6.3.1.2 Electrical Resistance Heating	35
6.3.2 In-situ Ground Water Treatment.....	37
6.3.2.1 In-situ Chemical Oxidation	37
6.3.2.2 In-situ Chemical Reduction	38
6.3.2.3 Air Sparging	38
6.3.2.4 Soil Vapor Extraction	39
6.3.2.5 In-situ Bioremediation	41
6.3.2.6 Bioremediation with Ground Water Recirculation	42
6.3.3 Pump and Treat.....	44
6.3.4 Permeable reactive barriers.....	45
6.3.4.1 Zero valent iron	46
6.3.4.2 Funnel and gate with zero valent iron	46
6.3.5 Monitored Natural Attenuation.....	46
6.3.6 Engineering and Institutional Controls	47
6.3.6.1 Engineering Controls	48
6.3.6.2 Institutional Controls	49
6.4 SUMMARY OF TECHNOLOGIES CARRIED FORWARD.....	50
7. ASSEMBLE AND SCREEN REMEDIATION ALTERNATIVES	51
7.1 EXCAVATION AND REMOVAL OF SOIL, IN SITU BIOREMEDIATION, MONITORED NATURAL ATTENUATION, ENGINEERING AND INSTITUTIONAL CONTROLS	51
7.1.1 Excavation and Removal of Soil Hot Spots.....	51
7.1.2 In-Situ Bioremediation.....	52
7.1.3 Monitored Natural Attenuation.....	54
7.1.4 Engineered and Institutional Controls	54
7.1.5 Summary	54
7.2 PERMEABLE REACTIVE BARRIER/ZVI, MONITORED NATURAL ATTENUATION, ENGINEERING AND INSTITUTIONAL CONTROLS	55
7.3 IN SITU BIOREMEDIATION, ENGINEERING CONTROLS, AND INSTITUTIONAL CONTROLS	55
8. EVALUATION OF REMEDIATION ALTERNATIVES.....	57
8.1 MTCA THRESHOLD REQUIREMENTS	57
8.1.1 Protect Human Health and the Environment	57
8.1.2 Comply with Cleanup Standards	58
8.1.3 Comply with Applicable State and Federal Laws.....	58
8.1.4 Provide for compliance monitoring	58
8.2 MTCA OTHER REQUIREMENTS.....	58
8.3 EVALUATION OF ALTERNATIVES.....	59

8.4	DISPROPORTIONATE COST ANALYSIS.....	59
8.4.1	DCA Criteria.....	60
8.4.2	Disproportionate Cost Analysis Scoring.....	62
8.4.3	Disproportionate Cost Analysis Summary.....	63
8.4.4	Sensitivity Analysis	64
9.	RECOMMENDED REMEDIAL ALTERNATIVE.....	65
9.1	DESCRIPTION OF RECOMMENDED REMEDIAL ALTERNATIVE	65
9.1.1	In-situ bioremediation	65
9.1.2	Ground Water Monitoring.....	67
9.1.3	Ground Water Monitoring, Cleanup Schedule and Contingency plan.....	69
9.1.3	Engineering controls	70
9.1.4	Institutional controls	70
9.2	RATIONALE FOR SELECTING PROPOSED ALTERNATIVE.....	70
9.3	OTHER ALTERNATIVES EVALUATED.....	70
9.4	CLEANUP STANDARDS	71
9.5	SCHEDULE FOR IMPLEMENTATION	71
9.6	APPLICABLE STATE AND FEDERAL LAWS	72
9.7	COMPLIANCE WITH THRESHOLD AND OTHER MTCA REQUIREMENTS.....	72
10.	SUMMARY & CONCLUSIONS.....	73
11.	REFERENCES.....	74

List of Tables

Table 1	Previous Soil Analytical Results
Table 2	Previous Ground Water Analytical Results
Table 3	Applicable Relevant and Appropriate Requirements
Table 4	Cleanup Alternatives Evaluation
Table 5	Disproportionate Cost Analysis Evaluation Criteria
Table 6	Disproportionate Cost Analysis

List of Figures

Figure 1	Site Vicinity
Figure 2	Site Location and Nearby Properties
Figure 3	Site and Exploration Plan
Figure 4	Previous Investigation, Case Property
Figure 5	Interior Exploration Plan, Case Property
Figure 6	Ground Water Gradient, Downtown Area, 9/13/12
Figure 7	UST and Sample Locations
Figure 8	2011 Ground Water Gradient, Case Property
Figure 9	PCE in Soil, Case Property
Figure 10	Soil Gas Organic Vapor, Case Property

- Figure 11 PCE in Ground Water, Shallow
- Figure 11a Source Area PCE in Ground Water, Shallow
- Figure 12 PCE in Ground Water, Intermediate
- Figure 13 PCE in Ground Water, Deep
- Figure 14 Cleanup Locations
- Figure 15 Conceptual Site Model
- Figure 16 DCA Cost to Benefit
- Figure 17 DCA Incremental Cost to Incremental Benefit

Appendices

- Appendix A – Agreed Order Number DE 9704
- Appendix B – Laboratory reports
- Appendix C – Boring Logs
- Appendix D – Cost Estimates

ACRONYMS AND ABBREVIATIONS

ARAR	Applicable or Relevant and Appropriate Requirements
BAZ	Biologically Active Zone
bgs	below ground surface
Cis-1,2 DCE	Cis-1,2-dichloroethylene
COC	Contaminant/Chemical of Concern
CAP	Cleanup Action Plan
CSM	Conceptual Site Model
CUL	clean-up levels
DCA	Disproportionate Cost Analysis
dCAP	Draft Cleanup Action Plan
Dhc	Dehalococcoides
DO	Dissolved Oxygen
DNAPL	Dense Non-Aqueous Phase Liquid
Ecology	Washington State Department of Ecology
EPA	Environmental Protection Agency
ERH	Electrical Resistance Heating
FS	Feasibility Study
HVOC	Halogenated Volatile Organic Compounds
K	Hydraulic Conductivity
MTCA	Model Toxics Control Act
mZVI	Microscale Zero Valent Iron
NAPL	Non-Aqueous Phase Liquid
O&M	Operation and Maintenance
ORP	Oxidation-Reduction Potential
PCE	Tetrachloroethylene
PRBs	Permeable reactive barriers
RI	Remedial Investigation
ROW	Right-of-Way
TCE	Trichloroethylene
TEE	Terrestrial Ecological Evaluation
TPH	total petroleum hydrocarbon
UST	underground storage tank
VC	Vinyl Chloride

April 12, 2018

HWA Project No. 2007-098

VI	vapor intrusion
VOC	volatile organic compound
WAC	Washington State Administrative Code
ZVI	Zero Valent Iron

**REMEDIAL INVESTIGATION / FEASIBILITY STUDY REPORT
ULTRA CUSTOM CARE CLEANERS SITE
18304 BOTHELL WAY NE
BOTHELL, WASHINGTON**

1. INTRODUCTION

This Draft Remedial Investigation / Feasibility Study (RIFS) report has been prepared for the Ultra Custom Care Cleaners Site (the Site) located in Bothell, Washington (Figure 1). The RIFS is being conducted under Agreed Order DE 9704, dated April 18, 2013, between the City of Bothell (City) and the Washington State Department of Ecology (Ecology). Requirements under the Agreed Order include preparation of this draft RIFS report, an Interim Action Work Plan for source control, and a draft Cleanup Action Plan (dCAP) to address soil and ground water contamination related to historical releases of hazardous substances at the Site. Various RI and Interim Action activities have been performed at the Site over the past few years.

The City owns the property on which the Site's source of contamination likely originated, and the downgradient public rights-of way along which some contamination appears to have migrated. Determination of the Site boundaries (i.e., the area where hazardous substances have come to be located) are established in this RI. A vicinity map and Site location are shown on Figure 1.

1.1. GENERAL SITE INFORMATION

The Site has previously been identified by Ecology as a State Cleanup Site and has been assigned Cleanup Site Identification number 3172 and Facility Site Identification number 379891. The assigned Site Manager is Sunny Becker (425-649-7187; hlin461@ecy.wa.gov).

The owner of the property in which the Site's source of contamination likely originated from, the City of Bothell (18415 101st Avenue NE, Bothell, WA 98011; 425-806-6100, contracted HWA GeoSciences, Inc. (HWA; 21312 30th Drive SE, Suite 110, Bothell, Washington 98021; 425-774-0106; asugar@hwageo.com) to complete environmental consulting services including the completion of a RI/FS report and dCAP.

1.2. SITE LOCATION AND DESCRIPTION

The property containing the source of contamination is owned by the City of Bothell, and Ms. Nduta Mbuthia (425-806-6829, Nduta.Mbuthia@bothellwa.gov) is the City of Bothell's representative managing the environmental contract for the Site.

The source property consists of the addresses 18304 Bothell Way NE, Bothell, King County, Washington 98011, located at 47.59442 degrees north and -122.20723 degrees west in the northeast quarter of Section 7 of Township 26 north, Range 5 east. The King County Assessor's Office lists the parcel numbers of the property as 072605-9003 and a portion of parcel number

072605-9191. The combined legal descriptions for the parcels, which are included in the assessor property account summary available on the county's website, are described as:

LOT 8 AND 9 BOTHELL BLA #2016-09383 REC #20170126900003 SD BLA BEING LOT 10 & POR LOTS 7-8-9 BLOCK 5 BOTHELL CORRECTION PLAT TOWN OF & PROP ADJ

The source property totals approximately 0.25 acres in size and includes a vacant lot that was previously occupied by a former single story commercial building which most recently housed, from north to south, the Ultra Custom Cleaners dry cleaning facility, Frank's Hair Design hair salon, and the Laundry Basket Laundromat. The building was demolished in June 2013. Historically, two dry cleaners operated on this property. Raincheck Cleaners and Laundry occupied a building from the 1950s through 1967 at the southwest corner of the parcel. That building was demolished in 1967, and a new building was constructed and occupied by NuLife Cleaner, apparently followed by Ultra Custom Cleaners, which was located at the northeast corner of the parcel.

The properties to the north and east of the source property consist of the City of Bothell visitor center, City Hall, municipal offices, and associated grassy areas. To the west of the source property, across Bothell Way NE, is a recently constructed apartment building. South of the source property, across NE 183rd Street are commercial properties occupied by Ranch Drive-In and Washington Federal (bank). The Sammamish River is located approximately 1,145 feet south of the source property. General location of the property is shown on Figure 1. Figure 2 shows the source property, other listed sites in the vicinity and the location of the Sammamish River relative to the source property.

Per Washington's Model Toxic Control Act (MTCA), a "Site" is defined by "*the nature and extent of contamination associated with one or more releases of hazardous substances prior to any cleanup of the contamination. A Site is NOT defined by the property or parcel boundary.*" Site boundaries are established through the RI process. The Site as defined by MTCA therefore consists of source property and any off-property areas that are impacted.

Figure 3 shows the approximate extent of the Site as defined by historic release areas and extent of contaminants of concern (COCs) at concentrations greater than MTCA cleanup levels. The contaminated soils and ground water originating from the source property are known to exist beneath the Site itself and extend south and east onto the adjacent and inferred downgradient city right-of-way (ROW) properties and nearby privately owned properties.

1.3. REGULATORY FRAMEWORK

The Site is listed in Ecology's database as Ultra Custom Cleaners Site and is assigned Cleanup Site Identification number 3172 and Facility Site Identification number 379891 for halogenated organics confirmed in the ground water and suspected in the soil and surface from former dry cleaning operations at the source property.

Ecology lists the Initial Investigation/Federal Preliminary Assessment as having been completed on October 18, 2002 (Ecology, 2017). The Site has Brownfield status.

The RIFS is being conducted under Agreed Order DE 9704, dated April 18, 2013, between the City of Bothell (City) and the Washington State Department of Ecology (Ecology). Requirements under the Agreed Order include preparation of this draft RIFS report, an Interim Action Work Plan for source control, and a dCAP to address soil and ground water contamination related to historical releases of hazardous substances at the Site.

1.4. AUTHORIZATION / SCOPE OF WORK

HWA's work for this project was authorized under Agreed Order DE 9704 with the City dated April 18, 2013.

1.5. OBJECTIVES

This RI was completed per the Agreed Order and Washington Administrative Code (WAC) 173-340, Model Toxics Control Act (MTCA) [Ecology, 2007]. The purpose of the RI is to evaluate the nature and extent of contamination. The purpose of the FS is to develop and evaluate cleanup action alternatives that protect human health and the environment by eliminating, reducing, or otherwise controlling risks posed through each exposure pathway and migration route. This RIFS also establishes cleanup standards per MTCA (WAC 173-340-700(3)) including:

- Cleanup levels for hazardous substances present at the Site
- The location where the cleanup levels must be met (point of compliance)
- Other regulatory requirements applicable to the Site

1.6. SITE HISTORY

The Facility (Site) name as listed in Ecology's database is Ultra Custom Care Cleaners, which is located at and around 18304 Bothell Way NE (also known as the Bothell-Everett Highway), Bothell, WA 98011, at the northeast corner of the intersection of Bothell Way NE and NE 183rd Street (Figure 1). The City currently owns the property from which the contamination likely originated; this property is referred to herein as the former Case property (after the former owners). Contamination has migrated off the former Case property, as described below.

The 0.25 acre rectangular former Case property included a former, single story commercial building which most recently housed, from north to south, the Ultra Custom Cleaners dry cleaning facility, Frank's Hair Design hair salon, and the Laundry Basket Laundromat. The building was demolished in June 2013.

Historically, two dry cleaners operated on this property. Raincheck Cleaners and Laundry occupied a building from the 1950s through 1967 at the southwest corner of the parcel. That building was demolished in 1967, and a new building was constructed and occupied by NuLife

April 12, 2018

HWA Project No. 2007-098

Cleaner, apparently followed by Ultra Custom Cleaners, which was located at the northeast corner of the parcel. Former dry cleaning operations released halogenated volatile organic compounds (HVOCs) to the soil and ground water at the Site/Case property which migrated to downgradient public rights-of way (ROWs) and public and private properties. Figure 2 shows properties and other listed sites in the vicinity. Figure 3 shows the extent of the Site which is defined by the extent of chlorinated solvent contamination in soil and ground water.

Previous owners of the Case property, as identified in tax assessor records available online include, but are not limited to, Robert L. and Edna E. Case (prior to 1996), Harold H. and Mercedes (sic) H. Fricke (prior to 1994), Neil A. and Nancy L. McGee (1996), and City of Bothell (1996 to 2017). No contact information for previous owners was available in the online King County tax assessor records. The City of Bothell (contact information provided above) acquired the Site in 2012.

1.7. SITE USE

The former Case property (source property) is currently a vacant lot that is paved on the western half of the property and includes the concrete slab of the building previously located on the eastern half of the property. Future development of portions of the original Case property (which was re-parceled) and adjoining new parcels, includes a hotel and public plaza.

The downgradient portions of the Site consist of public ROWs (Bothell Way NE, NE 183rd Street, and Main Street), private properties (Ranch Drive In, Speedy Auto Glass), and City owned properties (Lots EFG). At the time of this report, construction is underway on a multi-way boulevard along Bothell Way NE. The City property (Lots EFG) is slated for future development, the details of which are not yet known. No information is available on future site use or development of the private properties.

Properties on the Site with MTCA or hazardous waste regulatory activity include 1) the Speedy Auto Glass property, which is identified as leaking underground storage tank site, and 2) the Bothell Landing site, which is under Agreed Order with Ecology.

No other environmental permits or violations were identified with regards to the tenants of the downgradient properties associated with the Site.

Future land use at the Site with respect to existing and planned monitoring wells includes:

- a) The source area, which is owned by the City, and will be a public park space (plaza). All existing monitoring wells are anticipated to be preserved in this area.
- b) The Bothell Way NE roadway, which is owned by the City. All existing monitoring wells are anticipated to be preserved in this area.
- c) The triangular lot (EFG) at the southern end of the Site is owned by City but will be sold to a private developer. Access to existing monitoring wells will be impacted by building construction and site development, therefore, alternate well locations have been proposed to Ecology.

2. FIELD INVESTIGATIONS

2.1 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Several investigations have been performed at the former Case property, including CDM (2009, 2011, 2013), EHS International (2001a, 2001b), Farallon Consulting (2002, 2016), Environmental Partners Inc. (2004), and HWA, (2011a, b, c, 2012, 2015, 2016, 2017).

Parametrix also conducted investigations in the vicinity of the property (2010). Investigations have also been conducted south and downgradient of the property by CDM (2009, 2011), CDM Smith (2013), and HWA (2007, 2008, 2009, 2011b, 2012, 2016, 2017) which help define the Ultra Custom Care Cleaners Site limits.

Figure 4 depicts the approximate locations of the soil and ground water explorations at and around the former Case property, seven of which (SB-5, SB-6, SB-7, B-13, B-14, B-15, and B-16) were beneath the former (second generation) building. Sampling results indicated that soil and ground water at the property contained HVOCs, primarily the dry cleaning solvent tetrachloroethylene (a.k.a., perchloroethene or PCE), and associated degradation compounds trichloroethylene (TCE) and cis-1,2-dichloroethylene (cis-1,2-DCE). HVOCs in soil were either not detected or detected at concentrations below Ecology's Model Toxics Control Act (MTCA) Method A cleanup levels. However, PCE, TCE, and cis-1,2-DCE concentrations in ground water exceeded the MTCA Method A cleanup levels for these compounds with the highest concentrations occurring in the southwest corner of the site where the former Raincheck Cleaners and Laundry building was located. Storm water samples collected from storm water catch basins SS-1 and SS-2 contained PCE concentrations above the MTCA Method A cleanup level of 5 micrograms per liter ($\mu\text{g/L}$). In addition, a soil sample from upgradient monitoring well MW-2 contained gasoline-range petroleum hydrocarbons at a concentration exceeding the MTCA Method A cleanup level, which was attributed by Farallon Consulting (2002) to a cleaning compound similar to Pine-Sol. Ground water from this well did not contain any petroleum hydrocarbons above laboratory reporting limits. In November 2015, a small heating oil UST was removed from below the footprint of the second generation building previously located on the former Case property (details regarding the removal discussed below). Diesel was detected below the MTCA Method A cleanup level in confirmation soil samples collected from the excavation. No gasoline was detected in these confirmation soil samples. No other apparent current or historical sources of petroleum hydrocarbons exist at the former Case property, and no petroleum hydrocarbons have been detected in any other soil or ground water samples at the property. Soil and/or ground water samples collected from borings completed by HWA in 2013 (CasePP12 and CasePP13), and by Environmental Associates in 2016, did not contain any petroleum hydrocarbons above laboratory reporting limits (Figure 4).

The results of the EHS International, Farallon Consulting, and Environmental Partners site investigations indicated that the source of the PCE and related degradation products was the former Raincheck Cleaners and Laundry facility.

The Environmental Partners Inc. (2004) investigation included three direct push soil borings located on the western edge of the adjacent City Municipal Shop and Garage property (B-10, B-11, and B-12 on Figure 3). The Environmental Partners report states that no HVOCs were detected in three soil samples collected just above the water table at these locations; however, the report omits the laboratory reports for these three soil samples. Ground water samples collected from the three direct push borings contained PCE in concentrations exceeding the MTCA Method A cleanup level of 5 µg/L. In late March - early April 2010, Parametrix performed an environmental site assessment of the City properties to the east of former Case property (Parametrix, 2010). Parametrix advanced five soil borings on the City properties (some of which are shown on Figure 3) using a truck-mounted hollow stem auger drill rig. Ground water samples were collected at all five boreholes; however, only two of the ground water samples, SB-02 and SB-05, were analyzed for HVOCs. From the analytical data Parametrix concluded that no significant soil contamination is present at the City's property; similarly, the ground water samples also did not contain contaminants at concentrations above MTCA Method A cleanup levels.

CDM (CDM, 2009) performed a Phase II Environmental Site Assessment of the City's downtown redevelopment area. To evaluate HVOC distribution in the area, CDM used a direct push rig to collect soil and ground water samples along Bothell Way NE adjacent to and south of the former Case property (locations B2, B3, B8, B10, B11, B12, and B18 on Figure 3). CDM concluded that PCE contaminated ground water that apparently originates at the former Raincheck Cleaners and Laundry facility is migrating south along utility corridors in Bothell Way NE. Similarly, in 2008 HWA GeoSciences found PCE in concentrations exceeding the MTCA Method A cleanup level in two ground water samples collected in monitoring wells (installed as part of geotechnical engineering studies for future roadway improvements) south of the former Case property (locations BB-2 and BB-3 on Figure 3).

CDM conducted another study in 2011 to further investigate the extent of contamination downgradient of the former Case property on properties east of Bothell Way NE. CDM installed and sampled eleven direct push borings, identified as B19 to B29, most of which did not contain HVOCs in soil or ground water above MTCA cleanup levels, confirming that the HVOC plume south of the former Case property is migrating south primarily along Bothell Way NE (CDM, 2011).

HWA conducted a study in 2011 at areas adjacent north, east, and south of the former Case property which included drilling and sampling 13 direct push borings, CH-B1 to CH-B13, (HWA, 2011b). Four borings were installed on the adjacent north parcel to determine if any impacts were present north of the property. No HVOCs were detected in soil or ground water collected at these borings. Five borings were installed on the adjacent parcel east, and four borings in the 183rd Street right-of-way to the south, to precharacterize soil and ground water for construction of future storm and sanitary sewer utilities in these areas, as part of the City Hall municipal complex. These borings helped define the ground water plume as only extending east

April 12, 2018

HWA Project No. 2007-098

of the former Case property 30 feet or so, and confirmed higher HVOC concentrations south of the former Raincheck building, at the southwest corner of the property (HWA, 2011b).

Also in 2011, HWA conducted a site inspection and limited sampling in the (then) active Ultra Custom Cleaners dry cleaning facility located at 18304 Bothell Way NE, in the north portion of the former Case property (HWA, 2011c). The purpose of this study was to evaluate if recent practices had exacerbated known contamination issues on the property, and if the Ultra Custom Cleaners dry cleaning facility had contributed to ground water impacts. HWA inspected the facility, interviewed the operator, and collected samples of water and sediment in interior drains, and exterior sanitary and storm drain catch basins. HWA also collected shallow soil samples beneath the floor slab inside the dry cleaners building. Figure 5 shows the sampling locations. HVOC detections in interior floor drains and exterior storm water catch basins indicated likely chronic, low level interior releases of PCE, including spillage to the floor and discharge to the sanitary sewer drains, as well as a possible historic release to a storm drain catch basin, although the current dry cleaners does not appear to be the source of the ground water HVOC plume at and south of the property (HWA, 2011c).

In December, 2011, HWA sampled soils and ground water along Bothell Way NE (formerly SR527) as part of the Bothell Way NE storm drainage improvements project, to characterize trench spoils for disposal, as well as to further define the limits of the Ultra Custom Care Cleaners HVOC plume. Four borings were also advanced and sampled (soil and ground water) within existing sanitary and storm sewer trenches to determine if the existing utility trenches were acting as conduits for HVOC contamination. Ground water in all four existing utility trench backfill borings contained PCE above cleanup levels, at concentration ranging from 13 to 32 µg/L. These values are generally consistent with ground water concentrations previously measured in nearby borings within the roadway (CDM, 2009), although the concentrations are higher than those measured in the nearby HWA borings in the roadway in native soils. These results suggest that the utility trenches are acting as conduits for HVOC contamination to some extent, although permeable native and fill soils in the roadway also contain similar concentrations in some areas (HWA, 2012).

In May 2013, CDM Smith performed additional sampling to better define the southeastern limits of the Ultra Custom Care Cleaners HVOC plume along the former Woodinville Drive / SR 522. HVOCs in ground water originating from the former Case property have been detected all along Bothell Way NE from the former Case property to the intersection of former SR522 and onto the Bothell Landing property (Figure 3). HVOC concentrations generally decrease eastward from the SR522 / Bothell Way NE intersection, although a gap in ground water data existed just east of that intersection. Further to the east a group of higher HVOC concentrations were detected at and near the Riverside property. CDM Smith drilled and sampled seven soil borings to complete this data gap and ascertain if the two HVOC plumes were related or contiguous. The HVOC concentrations observed in Riverside property ground water were thought to be related to the Ultra Custom Care Cleaners HVOC plume because

1. They were directly downgradient of the intersection of Bothell Way NE and SR522,

April 12, 2018

HWA Project No. 2007-098

2. There were no soil HVOC impacts detected at the Riverside property,
3. There were no identified historic sources of HVOCs on the Riverside property, and
4. The one potential nearby source, a former cleaners, was ruled out due to numerous clean (no HVOCs detected in ground water) borings downgradient of that property.

CDM's findings suggest that the HVOC concentrations detected at and near the Riverside property are not contiguous with the Ultra Custom Care Cleaners HVOC plume, and may be from a separate source (CDM Smith, 2013).

In October 2013, HWA conducted additional site investigations per the September 12, 2013 *Data Gaps Work Plan*. This work included drilling and sampling 30 direct push borings at the former Case property, and sampling soils, soil gas, and ground water.

Based on the 2013 RI investigation, PCE was detected in soils on the former Case property in four locations at concentrations slightly exceeding MTCA Method A cleanup levels, suggesting a source area at the southwest corner of the property, at the former location of the Raincheck Cleaners building. PCE concentrations ranged up to 120 µg/L. Based on the soil and ground water PCE concentrations detected, this does not suggest the presence of non-aqueous phase liquid (NAPL) in the soil, or a concentrated soils source for the ground water plume. The HVOCs TCE and cis,1,2-DCE were also detected in soils at the former Case property, but at concentrations below MTCA Method A cleanup levels. The pattern of soil HVOC concentrations does not suggest a source associated with the former Ultra Custom Care Cleaners facility, or underground utilities on the property.

Based on the 2013 RI investigation, PCE was detected in ground water at and south of the former Case property, with the highest concentrations (up to 1700 µg/L) detected at the southern property boundary, near NE 183rd Street. Similar to the soils data, the ground water results do not suggest the presence of NAPL, and indicate a source at or near the former location of the Raincheck Cleaners building.

On August 3 and 4, 2015, HWA advanced 10 direct-push borings, borings S1 to S4 and G1 to G6, on the north and east-adjointing properties to the former Case property to further delineate PCE impacts in the vicinity of the property (HWA, 2015b). Boring locations are depicted on Figure 4. Borings were advanced to depths of up to 22 feet below ground surface (bgs) and soil and ground water samples were collected from 9 of the 10 borings. Analytical results for soil samples analyzed from depths ranging between 2.5 to 18 feet bgs indicated that PCE below the MTCA Method A cleanup level was present in all 9 of the borings. Other HVOCs that are degradation products of PCE such as TCE, cis-1,2-DCE, and Vinyl Chloride (VC) were not detected. PCE, but none of its degradation products, was detected in each of the 9 ground water samples submitted for analysis. Ground water samples from three borings advanced adjacent to the southeast corner of the former Case property contained PCE concentrations exceeding the MTCA Method A cleanup level. PCE concentrations were below cleanup levels in the remaining

April 12, 2018

HWA Project No. 2007-098

6 ground water samples analyzed. Figure 4 shows the compiled soil and ground water data at and near the Ultra source area / former Case property.

On November 15, 2015, a heating oil underground storage tank (UST), with some PCE dissolved in the heating oil, was removed from the former Case property (HWA, 2016). The UST was an approximately 475-gallon, welded steel UST, with ten visible “pin holes” observed during the removal. The product lines were crimped and cut prior to removal and did not contain product. All lines extending from the UST into the surrounding soil were left in place. The tank was exposed, cleaned and removed under the approval and supervision of the City of Bothell fire marshal. Residual tank contents and cleaning fluids were collected and transported off site by CCS, and disposed of at the Stericycle facility while the UST itself was transported off-site for disposal at EH Recycling. Dimensions of the excavation measured approximately 8 feet wide, 12 feet long, and 7.5 feet deep. No staining was observed in the soils adjoining and immediately underlying the UST. Five confirmation soil samples; one from each sidewall and one from the excavation bottom, were collected and analyzed for diesel and oil-range total petroleum hydrocarbons (TPH) and for HVOCs. None of the analyte concentrations in the soil samples exceeded MTCA Method A clean up levels, indicating no release from the tank had occurred. Figure 6 depicts the location of the removed UST and confirmation soils samples collected from the excavation.

In August 2016, Farallon Consulting (Farallon) completed a Limited Groundwater Investigation Report on a property located southeast of the former Case property (Farallon 2016). Farallon advanced one boring, FB-9, to a depth of 50 feet bgs that was located southeast of the previously mapped Ultra HVOC ground water plume limits (Figure 3). Farallon collected reconnaissance ground water samples from sandy layers at three depth intervals of 22, 27, and 32 feet bgs from boring FB-9. PCE was detected at concentrations of 8.7 and 5.8 µg/L, which is above the MTCA Method A cleanup level, in the ground water samples collected from 27 and 32 feet bgs, respectively. PCE was detected below the cleanup level in the 22 foot bgs depth interval ground water sample. TCE, cis 1,2-DCE, and VC were not detected above the laboratory detection limits in any of the FB-9 ground water samples collected. These results indicated that soils containing PCE exceeding cleanup levels was similar to the limits previously estimated while the boundaries of the PCE ground water plume were noted to extend further east than previously estimated.

1. Several rounds of quarterly ground water monitoring have occurred at the Site from February 2015 to April 2017 (HWA, 2015-2017). Ground water monitoring well locations are shown on Figure 3. Based on these past ground water investigations and monitoring data, concentrations of PCE and its degradation products exceeding MTCA Method A cleanup levels are present in ground water beneath the Site extending from the former Case property, along the east side of Bothell Way NE, to just south of Main Street. Post remediation ground water monitoring was performed for two years (eight quarters) to evaluate the effectiveness of remediation efforts,

April 12, 2018

HWA Project No. 2007-098

including chemical oxidation injections in May 2014 and two subsequent rounds of in situ bioremediation injections. Quarterly monitoring indicated that remedial efforts had been successful in reducing HVOC concentrations in the source area and down gradient wells with favorable indicators for continuing reductive dechlorination in almost all wells with HVOC impacts above cleanup levels.

In June 2016, Environmental Associates Inc. conducted limited subsurface sampling and testing on behalf of a potential purchaser of property north of the main source area. The testing included soil and ground water sampling at 22 direct push borings in a grid pattern over the north part of the former Case property and south part of the adjoining north parcel. Environmental Associates borings in areas not previously sampled by others are shown on Figure 9. Environmental Associates borings where HVOCs were not detected, but at higher detection limits than detections in other nearby borings, are not shown. Tables 1O and 2R summarize the analytical results. Results of the study indicated no TPH exceeding MTCA method A cleanup levels in soil (of 69 samples) or ground water (22 samples) in the area near MW-2, and no HVOC impacts to soil or ground water exceeding cleanup levels except one shallow soil sample (EAB-15) south of MW-2, with a detection of 0.21 mg/kg of PCE at a depth of three feet (Figure 9). No HVOCs were detected in the sample beneath it (eight feet depth), in ground water at that boring, or in the five borings surrounding this location. Environmental Associates described this detection as isolated, and possibly related to a former side sewer in the area (Environmental Associates, 2016).

In April and May 2017, HWA advanced 10 borings, UCCB-1 to UCCB-10, to depths ranging between 40 and 45.5 feet bgs utilizing a truck mounted hollow stem auger drill rig (HWA 2017). Borings were advanced between the known extents of the Ultra and Riverside HVOC ground water plumes to address data gaps regarding the extent of PCE in the deeper portions of the aquifer (Figures 12, 13, 14). The reconnaissance ground water samples were collected via temporary wells installed at three separate depth intervals in each boring, a shallow (1-20 feet bgs), an intermediate (18-34 feet bgs), and a deep (35-45 feet bgs) ground water interval depth. Ground water samples were submitted for chemical analysis of HVOCs with one follow up soil sample analysis conducted from each boring. The two northernmost borings, located within the formerly known limits of the HVOC plume, had PCE detections above MTCA Method A cleanup level in the intermediate and deeper portions of the aquifer and one had a VC detection above the cleanup level in the intermediate portion of the aquifer. A ground water sample analyzed from a boring located southeast of the previously delineated southeastern extent of the plume, also had detections of PCE above cleanup levels in both the intermediate and deeper portions of the aquifer, while the shallow ground water sample collected from this boring was non-detect for PCE.

Based on the ground water analytical results obtained from this investigation, the downgradient, southern end of the HVOC plume from the Ultra Site extends further south and southeast than

previously estimated, with low HVOC detections in the intermediate and deeper portions of the aquifer. The results from this investigation also concluded that the Ultra HVOC plume is discrete and not commingled with the Riverside HVOC located further south. The PCE concentrations decreased with distance traveled to the southeast, and with depth from the intermediate to the deeper zone. Soil samples were selected for analysis based on the highest detections of HVOCs from the corresponding depth ground water sample. None of the soil samples collected from each boring (at depths with the highest HVOC ground water concentrations) contained any HVOC exceeding cleanup levels. Six of the 10 soil samples did not contain any HVOCs above laboratory reporting limits. This suggests no source areas at or near any of these borings.

In February, 2018, HWA advanced 8 direct push borings, UCCB-11 to UCCB-18, located side- and up-gradient of the main source area at the Site (just east of the former building foundation), on and near a parcel of land sold by the City to a hotel development group. Eight shallow reconnaissance ground water samples and one intermediate depth ground water sample were collected from the borings and analyzed for HVOCs. The boring locations were selected by Ecology, at 7 locations of former soil borings/ground water samples, and one new location. One existing monitoring well located upgradient of the source area, UCCMW-15, was also sampled. The ground water samples were collected from areas along the known upgradient extents of the Ultra HVOC plume to investigate the extent of HVOC concentrations in the shallow and intermediate aquifer on the parcel of land slated for hotel development. The borings were advanced to depths ranging between 15 and 35 feet below ground surface (bgs) utilizing a track mounted GeoProbe 7822DT direct push drilling rig. Boring locations are shown on Figure 11A.

Eight reconnaissance ground water samples were collected via temporary wells installed at first-encountered, shallow (10-20 feet bgs) ground water, and one ground water sample was collected at an intermediate (29-34 feet bgs) depth.

Ground water data from the reconnaissance sampling is summarized on Table 2P. Figure 11A shows the most recent PCE groundwater concentrations from 2011 to 2018, i.e., past co-located PCE data that has been superseded by the new data is not shown. Table 2Q shows a comparison of co-located ground water data from samples collected in 2018 vs. in 2015, 2014, 2011, and 2004 (the most recent for each location shown). The study area was formerly on the uphill side of a retaining wall, but was regraded in 2016 into more of a gentle slope. Current land elevations at most of the boring locations are therefore up to 5 feet lower than prior to 2016. Sampling depths shown for the 2018 vs. 2015 and earlier borings represent the same water-bearing zones; i.e., first encountered ground water prior to 2015 was up to 5 feet deeper than in 2018.

Based on the ground water analytical results obtained from this investigation, the HVOC plume from the Ultra Site source area has decreased in size along its northeastern edge, with current HVOC detections slightly exceeding cleanup levels remaining only in two locations closest to the source area (UCCB-15 and 16). PCE concentrations at all previously sampled locations have decreased. An intermediate depth ground water sample collected from UCCB-14 did not contain

HVOCs in ground water exceeding detection limits. The presence of PCE daughter products (VC and DCE) in boring UCCB-16 is indicative of biological activity occurring from the in-situ bioremediation activities performed by HWA in March 2016 (HWA, 2018).

2.2 SITE CHARACTERIZATION

2.2.1. Sampling and Monitoring

Soil, soil vapor, and ground water sampling at multiple locations on and in the vicinity of the Site was conducted by HWA and other consultants utilizing various investigation methods (test pits, soil borings/probes) and sampling methods (grab sampling, quarterly monitoring). Details regarding various sampling and monitoring activities at the Site are described in Section 2.1 above. These various investigations were performed in accordance with appropriate industry and regulatory standards with sample collection based on depths, lithology, and/or field screening. Ground water monitoring wells were also constructed according to Ecology regulations generally utilizing 2-inch diameter PVC casing and premanufactured slotted screens with development of the well occurring after construction of the well was completed.

2.2.2. Topography

The general topography of the entire Site slopes down from north to south towards the Sammamish River. The former Case property is generally flat, with elevations from 46 to 47 feet above mean sea level. To the east, the adjacent property is approximately 10 feet higher in elevation (elevations of 58 to 60 feet). The area around Bothell Way NE, south of the former Case property, slopes down to the south, at elevations between approximately 30 to 60 feet above mean sea level.

2.2.3. Site Geology

The Ultra Custom Care Cleaners Site is located within the Puget Sound Lowland, a north-south trending structural and topographic depression bordered on the west by the Olympic Mountains and on the east by the Cascade Mountains. The area is characterized by gently rolling glacial drift plains covered with small ridges, hills, and depressions formed by the continental ice sheet that covered the area during the Pleistocene Epoch and retreated approximately 12,500 years ago. Most of northwestern King County is mantled by glacial deposits (including gravel, sand, silt, clay, boulders), which are commonly over 150 feet thick (Liesch and others, 1963). The Sammamish river is located south of the Site, and the northern edge of its associated alluvial valley lies is mapped as occurring around the middle of the Site, just north of Main Street.

The entire Site therefore spans a geologic contact, from glacial outwash sands at the north end (former Case property) to quaternary alluvial silts and silty sands in the southern half. Appendix C contains boring logs for explorations within the study area.

Former Case Property/Source area – Information obtained from borehole logs at and near the former Case property area indicate that soils consist mainly of loose to medium dense silty sand and fine- to medium-sand with varying percentages of gravel. HWA GeoSciences (2008) interpreted the near-surface strata in this area as being Vashon age recessional outwash deposits. The recessional outwash sediments were deposited by meltwater flowing from the receding Vashon glacier, and were not overridden by the glacier. Overlying the recessional outwash deposits in most exploration locations is fill consisting predominantly of silty sand.

4. Underlying the recessional outwash is glacial till. Environmental Partners Inc. (2004) observed a sandy silt with gravel horizon beginning at 36 to 40 feet bgs in eight direct push explorations advanced in the southwest area of the former Case property; one direct push exploration, B-1 (Figure 4), penetrated four feet of the sandy silt with gravel horizon before the exploration was terminated so its total thickness is unknown. Environmental Partners Inc. stated that the sandy silt with gravel horizon serves to limit the potential downward migration of PCE and its degradation products that are denser than water. A geotechnical report conducted for the east and north adjoining City Hall project reported similar surficial fill over outwash sands, with underlying dense to very dense silty sand with gravel (interpreted as “till like”) at depths of around 30 feet near the former Case property (Terra, 2011).

Bothell Way NE/City Right-of-Way – Explorations at the Site along Bothell Way NE are underlain by up to 10 feet of silty sand and gravel material characterized as fill overlying alluvial soil consisting of interbedded silt, silty sand, and sand. Alluvial soils extended to the maximum explored depths of 50 feet bgs. Depth of alluvium is expected to increase with proximity to the River, i.e., to the south.

2.2.4. Site Hydrogeology

A The ground water table at the former Case property occurs approximately 7 to 11 feet bgs; and at greater depths (15-20 feet bgs) under the higher elevation areas east of the former Case property. Depths to ground water are generally between 5 and 10 feet bgs in the southern portion of the RI area, along Bothell Way NE from south of the former Case property to Main Street.

The estimated ground water flow direction at the former Case property is toward the south-southwest at a gradient of 0.02 to 0.03 feet/foot (Terra, 2011). Figure 7 shows the ground water gradient measured at the former Case property and nearby City property in July 2011. The regional shallow ground water gradient is more to the southeast, towards the Sammamish River. Figure 8 shows the ground water gradient measured across the entire Bothell downtown area on September 13, 2102. The localized deflection of gradient to the southwest near the former Case property may be due to the relict Horse Creek channel.

Aquifer properties. Aquifer properties at and near the site were measured and estimated in a variety of ways, including materials laboratory direct testing, estimation of aquifer properties from materials laboratory testing, and in situ monitoring well (slug) testing.

Hydraulic conductivity of similar soils at the adjacent east City Hall site was estimated by Terra Associates using grain size testing and slug testing, with estimates of around 2 feet/day, or 7×10^{-4} cm/sec (Terra, 2011). Hydraulic conductivity of the water-bearing zone at the south end of the RI area, at the Bothell Landing site, was estimated using slug testing data at around 7 to 26 feet/day (2×10^{-3} to 9×10^{-3} cm/sec) (Parametrix, 2009).

HWA laboratory testing of selected soils samples at and near the former Case property is summarized below.

	PP3-1-7.2	PP3-12-16	PP8-5-10	PP8-10-12	UCCMW8-15	UCCMW7-15
ASTM class	SP-SM	SP-SM	SP	SP-SM	SM	SM
Total solids, ARI (%)	94.56	86.27	96.49	85	88.56	84.98
Moisture content (%)	5.44	13.73	3.51	15	11.44	15.02
Cation exchange capacity (meq/100g)	1.65	2.18	1.52	3.92	5.58	2.27
Organic content (%)	0.9	0.8	0.9	1.1		
pH	6.66	6.62	6.71	6.39		
Permeability (cm/sec)		3.1E-03		1.0E-03	1.3E-05	3.9E-05
Void ratio		0.706		0.527		0.435
Total Porosity (%)		41.4		34.5		30.3
Effective porosity (%)		40.7		43.6	48.9	48.3
Air-Filled Porosity (%)		23.9		20.1		
Dry Bulk Density (pcf)		100.6		112.4		115.2

SP-SM - poorly graded SAND with silt

SP - poorly graded SAND

A summary of hydraulic conductivity (which is the permeability with respect to ground water) values measured or estimated for the Site is provided below:

	cm/sec	ft/day
HWA slug testing Case MW-1	5.9E-04	1.7
Terra Assocs (2011), estimated from grain size and slug testing	7.1E-04	2.0
HWA lab Permeability Sample B	1.0E-03	2.8
HWA slug testing UCCMW-6	1.3E-03	3.6
HWA slug testing UCCMW-9	1.3E-03	3.7
HWA lab Permeability Average	1.3E-03	3.7
HWA lab Permeability sample A	3.1E-03	8.8
HWA estimates from Terra's grain size data	7.1E-03	20.0
HWA grain size sample B	1.5E-02	42.8
HWA grain size average	1.1E-02	31.4
HWA grain size sample A	2.5E-02	70.9

These physical properties were used to design the interim action in situ cleanup efforts, and generally indicate clean, porous, relatively permeable sands in the source area. Measured permeabilities of the outwash sands ranged from 0.0025 to 0.003 cm/sec (3 to 70 ft/day), with lower permeabilities measured in the siltier sands. In general, hydraulic conductivities and porosities are higher in the north half of the Site, where recessional outwash sands are present.

Ground water velocities. In general, assuming an effective porosity, n_e , of 0.40 for the aquifer materials at the site, hydraulic conductivity (K) of 3 to 70 feet/day, and a gradient (i) of 0.02 to 0.03 ft/ft, ground water flow velocities in the water-bearing zones, based on the relationship $V = Ki / n_e$ are estimated to range from 0.15 to 5 feet/day, or 55 to 1,900 feet/year. In general, hydraulic conductivities and ground water velocities are higher in the north half of the Site, where recessional outwash sands are present.

Seasonal variation. Seasonal variation in ground water levels is expected to be on the order of one to two feet, based on a compilation of ground water levels for various sites in the RI study area (e.g., Bothell Landing, Bothell Service Center, Northshore School District).

2.2.5. Surface Water

A Horse Creek is the historic drainage in the project area, and is currently entirely tight-lined at and along the Site in pipes, which formerly discharged into the Sammamish River approximately 600 feet south of the south end of the Site. The Horse Creek culvert, or the original creek location west of Bothell Way NE, potentially creates a hydraulic divide west of the former Case property.

The Horse Creek drainage system was largely re-routed in 2016 to a new drainage system some 600 feet west of the Site, consisting of a series pipes, culverts, and created (artificial) open channel segments. The new system is lined with impermeable membranes in areas of known contamination such that no interaction of ground water and surface water will occur. Figure 2 shows the former and new locations of the Horse Creek Channel.

2.3 SAMPLING/ANALYTICAL RESULTS

This draft RI was prepared using multiple sources of data, i.e., including RI activities performed under an RI work plan, and multiple environmental investigations performed under work plans or sampling and analysis plans following guidelines established under MTCA (i.e., substantially equivalent to MTCA).

This section presents an assessment of the nature and extent of contamination, determination of contaminants of concern, development of the conceptual site model (CSM), identification of applicable or relevant and appropriate requirements (ARARs), and assessment of risk and associated cleanup standards based on results of previous remedial investigations conducted at the Site.

2.3.1. Nature and Extent of Contamination

This section describes the nature and extent of contamination by area, rather than by COC or media, due to the large and varied nature of the Site. Ground water in the RI area has been affected by HVOCs. The dry-cleaning solvent PCE, as well as its breakdown products, TCE, cis-1,2-DCE, and VC have been detected in multiple ground water samples throughout the area. In the progression of natural biodegradation by reductive dechlorination, PCE (four chlorine atoms), degrades to TCE (three chlorine atoms), to DCE (two chlorine atoms), then to VC (one chlorine atom). Upon complete dechlorination (under ideal conditions), VC can degrade to ethene. The apparent source of these HVOCs is the former Raincheck Cleaners and Laundry facility that was located at the southwest corner of the former Case property, at Bothell Way NE and NE 183rd Street until 1967. Tables 1 and 2 summarize detections of HVOCs in soil and ground water in the RI area.

Former Case Property/City Properties – Investigations prior to 2013 indicated that chlorinated solvents detected at the former Case property and city properties, including the NE 183rd Street ROW, primarily included PCE in several ground water samples, one of which had a concentration of 6,400 µg/L from a ground water grab sample collected between 8 and 12 feet bgs in direct push exploration B-1 (Figure 4). Ground water impacts on City properties indicated that the HVOC plume extended east (and generally upgradient) of the former Case property and in 183rd Street, located south of the former Case property. Soil samples collected from these investigations indicated that HVOCs in soil were either not detected or at concentrations below Ecology's Model Toxics Control Act (MTCA) Method A cleanup levels.

Explorations conducted at and adjacent to the former Case property from 2013 to 2015 indicate the following:

- Soil – Of 71 borings and 135 soil samples analyzed on and adjacent to the former Case property, only 5 showed any HVOCs exceeding cleanup levels. Table 1 summarizes the soils data, and Figure 9 shows the soil data. Borings CasePP-1, CasePP-7, CasePP-24, and CasePP-30 located in the southern portion of the Case property, had PCE concentrations ranging from 0.057 to 0.12 mg/kg, slightly above the soil cleanup level. Boring EAB-15 had PCE at a depth of three feet of 0.21 mg/kg, with no PCE detected below or surrounding that sample, or in ground water at that location. This isolated detection was attributed to a former side sewer in the area. These findings suggest there is no concentrated PCE source area in soils on or adjacent to the former Case property, and no dense non-aqueous phase liquid (DNAPL).
- Soil gas – Shallow (5 to 10 feet) soil gas concentrations (collected with a photoionization detector in 31 direct push borings) ranged from 0 to 26.2 parts per million by volume (ppm), and are plotted on Figure 10. The pattern is generally consistent with the highest soil gas concentration detected in the same boring as the highest PCE detection in soil.
- Ground water - Table 2 summarizes the ground water data, and Figure e11 shows the ground water data contoured. Results indicate the highest PCE concentrations are located

in the vicinity of the southwest corner of the former Case property with the highest detection (1,700 µg/L in boring PP-14) in the sidewalk on the north side of 183rd Street. Ground water samples collected after remedial in situ bioremediation injections from monitoring wells on the former Case and downgradient City properties indicate that HVOC concentrations have decreased. In some cases, such as from monitoring well UCCMW-18 located adjacent to the above-mentioned B-1 boring, and MW-1 located adjacent to PP-14, significant decreases in PCE concentrations have occurred with the most recent ground water samples collected from these wells exhibiting PCE concentrations below the MTCA cleanup level.

Bothell Way NE / Right-of-Way – Direct push soil and ground water sampling by CDM and HWA along and east of the Bothell Way NE Right-of-Way, south of the former Case property, suggests the HVOC plume is traveling mainly along the roadway with some impacts along the very eastern edge of the commercial properties to the west of Bothell Way NE. No HVOCs were detected in ground water exceeding the 5 µg/L MTCA method A ground water cleanup level on properties east of the Bothell Way NE roadway in the north half of the block between NE 183rd Street and Main Street (CDM, 2009, CDM, 2011). PCE and vinyl chloride in ground water exceeding MTCA method A ground water cleanup levels, with concentrations ranging up to 94 µg/L in the vicinity of the former SR522 roadway where it intersected with Bothell Way NE.

Lot EFG/Bothell Landing – The former Bothell Landing property (now owned by the City) is the subject of another Agreed Order with Ecology, and is located at and around the new intersection of Bothell Way NE and SR522, downgradient of the former Case property. Phase II environmental site assessments conducted by HWA in 2007 and a remedial investigation conducted by Parametrix in 2009 indicated HVOC impacts to ground water in the northern portion of the property. The absence of soil impacts or a likely historic source of HVOCs on the property led to the conclusion that the HVOCs were coming from the upgradient Ultra Site (HWA, 2007; Parametrix, 2009).

In April and May 2017, HWA advanced 10 borings to depths ranging between 40 and 45.5 on and in the vicinity of the Lot EFG and Bothell Landing property. Based on the results of this and all prior investigations, the downgradient, southern end of the Ultra HVOC plume now extends into the northern part of the Bothell Landing Site (although no longer on the former Bothell Landing property) and on to the northern part of Lot EFG, with low HVOC detections in the intermediate and deeper portions of the aquifer (Figures 11, 12, 13). None of the soil samples collected from each boring in the vicinity of Lot EFG and the Bothell Landing Site (at depths with the highest HVOC ground water concentrations) contained any HVOC exceeding cleanup levels.

Sammamish River – The numerous site investigations performed in the area indicate that HVOC contamination originating in the Ultra Custom Care Cleaners Site has not migrated to the Sammamish River via either surface water or ground water pathways.

Depth profiling – PCE is denser than water, and at some sites has a tendency to “sink” to the bottom of an aquifer, or even to underlying aquifers. Evaluating vertical concentration gradients requires sampling from different depths at the same locations. Existing ground water data in the RI study area where vertical concentration gradients can be evaluated include:

- Former Case property – MW1 was sampled at two depths (5-15, 26-29 feet) with an order of magnitude decrease with depth (Farallon, 2002)
- Former Case property – Nine borings were sampled at three different depths; HVOCs decreased with depth in all borings (Environmental Partners Inc., 2004)
- Former Case property – two direct push borings in the 2013 investigation near the source area were sampled at two depths, (7-12 feet) and (20-25 feet). Results indicated a pattern of decreasing concentration with depth, with a general order of magnitude decrease in the deeper samples.
- Recent investigations conducted by HWA in April and May 2017 in the vicinity of Lot EFG and the Bothell Landing Site show some higher HVOC concentrations in intermediate depths (18-34 feet bgs) than at shallow depths (1-20 feet bgs), but no higher concentrations in the deeper zone (35-45 feet bgs) than in the intermediate.

2.3.2. Contaminants of Concern

Based on background information and analytical data from previous studies presented in Section 2.3, contaminants of concern (COCs) identified in soils and/or ground water at the Ultra Custom Care Cleaners Site include:

Soil:

- Chlorinated solvents (mostly PCE) in soil at the former Case property, Bothell Way NE roadway, and to a much lesser extent, some TCE, DCE, and vinyl chloride in other downgradient areas extending to the Bothell Landing site (Figure 3).

TPH was detected in 2 areas:

- MW2 on the former Case property, at 5.5-7 feet depth, where 1,800 mg/kg of TPH was detected. The detection was attributed by Farallon Consulting (2002) to a cleaning compound similar to Pine-Sol. Ground water from this well did not contain any petroleum hydrocarbons above laboratory reporting limits. No apparent current or historical sources of petroleum hydrocarbons exist at the former Case property, and no petroleum hydrocarbons have been detected in any other soil or ground water samples at the property. Analysis of soil samples collected from two borings completed by HWA in 2013, BB-2 and BB-3, did not contain any gasoline, diesel or oil-range TPH above laboratory reporting limits (see Table X and Figure 3) and confirmation soil samples collected during a 2015 removal of a heating oil UST also did not contain TPH concentrations above MTCA Method A cleanup levels. TPH is therefore not a soil COC at the Site.

April 12, 2018

HWA Project No. 2007-098

- Gasoline, oil-range petroleum hydrocarbons, and benzene in soil were detected in CDM boring B3 in the Woodinville Drive (SR522) roadway south of the former Case property (Table 1C and Figure 3). Gasoline-range petroleum hydrocarbons were also detected in CDM Boring B30, 50 feet east of B-3, at 110 mg/kg (Table 1I and Figure 3). These borings were located within areas that were subsequently remediated via excavation and off site disposal of all soil exceeding MTCA cleanup levels under the Bothell Landing Agreed Order.

Ground Water:

- Chlorinated solvents (PCE, TCE, DCE, and vinyl chloride) at the Site (former Case property, Bothell Way NE roadway, and other downgradient areas).
- TPH was detected over 300 feet south of the HVOC plume source area. Gasoline or benzene in ground water was detected in CDM borings B3 and B30 (Table 2C and Figure 3). Borings B3 and B30 were located within areas that were subsequently remediated via excavation and off site disposal of all soil exceeding MTCA cleanup levels under the Bothell Landing Agreed Order. TPH is therefore not a ground water COC at the Site.

3. CONCEPTUAL SITE MODEL

The conceptual site model for the HVOC plume identifies the primary contaminant sources, release mechanisms, transport mechanisms, secondary contaminant sources, potential pathways, and exposure routes. Existing chemical data, site characterization data, and identification of potential human and ecological receptors were used to develop the model.

The model first identifies the primary contaminant sources and then describes the release mechanism from the sources into environmental media. Then, the migration of potential contaminants through media and the subsequent release mechanisms are summarized. This results in the identification of potentially contaminated media to which receptors are most likely to be exposed (exposure media). Once the exposure media are identified, the specific human and ecological receptors are incorporated into the model, completing the exposure pathway.

Figure 15 shows the conceptual site model for the Site. Each component of the conceptual site model is described below.

The conceptual site model brings together multiple environmental and anthropogenic variables to formulate an understanding of the potential pathways of contaminant movement that may exist at the Site. The model also brings together the physical descriptions of the environment, the extent of the potential contamination, the fate and transport processes, and the potential routes by which human and ecological receptors are exposed to contaminants. In general, the Site model consists of sequential steps that trace potential contaminants from the primary sources to the final receptors (human and ecological).

The conceptual model for the Site identifies the primary contaminant sources, release mechanisms, transport mechanisms, secondary contaminant sources, potential pathways, and exposure routes. Existing chemical data, site characterization data, and identification of potential human and ecological receptors were used to develop the model shown on Figure 15.

3.1 PRIMARY CONTAMINANT SOURCES

The primary contaminant source at the Ultra Custom Care Cleaners Site is the dry cleaner solvent release from the former Raincheck Cleaners and Laundry facility. The primary contaminant associated with this release is PCE, with associated breakdown products TCE, cis-1,2-DCE, and vinyl chloride.

3.2 PRIMARY RELEASE MECHANISMS

The primary potential release mechanisms for contaminants associated with the former dry cleaners include leaks from equipment, or discharges (accidental or intentional) to floor drains, storm drains, or ground.

3.3 PRIMARY TRANSPORT MECHANISMS

Primary transport mechanisms for HVOCs include the following:

- Contaminant leaching from soils above and below the water table
- Leaching from separate phase liquids, e.g., a DNAPL mass of PCE within soil pore spaces, although no evidence of DNAPL has been found at the Site
- Volatilization from the vadose zone and water table

The degree of contaminant leaching is controlled by chemical properties of the contaminants, ground water chemical properties, physical properties of the soil, characteristics of the ground water flow system, and precipitation recharge. Volatilization is controlled by the concentration and chemical properties of the contaminants, physical properties of the soil, and soil gas characteristics.

3.4 POTENTIAL PATHWAY AND EXPOSURE ROUTES

Complete exposure pathways have the following components: 1) a chemical source, 2) a transport pathway, 3) an exposure point where contact can occur, and 4) an intake mechanism. Potential exposure routes for human and ecological receptors include the following:

- *Dermal/Direct Contact.* Dermal contact with soil on Site is a potential intake mechanism for current and future on-site workers, future residents, and future visitors. Vertebrate wildlife tend to have thick fur coats or feathers which serve as barriers to chemicals that they contact in the soil. However, such wildlife spend time grooming, and this leads to an increase in the potential for incidental soil ingestion as noted below. Plants and burrowing or ground-dwelling invertebrates (e.g., earthworms) are exposed directly to the soil.
- *Inhalation.* Suspended particulates from soil can be transported by air and inhaled by potential on-site and off-site receptors. Emissions of volatile chemicals from soil and ground water (human receptors only) may also be transported as vapors by air, but are considered to be pathways of secondary concern because, in ambient conditions, such vapors are rapidly diluted and degraded.
- *Ingestion.* Accidental ingestion of chemicals in Site soil and ground water are primary intake mechanisms for human receptors. Ingestion of chemicals in Site soil is a primary intake mechanism for ecological receptors. The following section describes specific exposure pathways of primary concern.

3.4.1 Exposure Pathways of Concern

Complete exposure pathways by which chemicals may reach potential receptors include the following:

- Current/future indoor worker:
 - Inhalation of vapors from the subsurface (ground water and soil) in indoor air
 - Dust inhalation
- Current/future construction/utility worker:
 - Incidental soil, surface water, and ground water ingestion and dermal contact
 - Inhalation of vapors from the subsurface soil in indoor or outdoor air

- Dust inhalation
- Inhalation of vapors from or dermal contact with ground water in a trench or excavation
- Current/future Site visitor (adult and child):
 - Inhalation of vapors from the subsurface (ground water and soil) in indoor or outdoor air

3.5 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Cleanup actions under MTCA (WAC 173-340-710) require the identification of all ARARs. These requirements are defined as:

“Applicable” requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a site.

“Relevant and appropriate” requirements means those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that, while not “applicable” to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a site, address problems or situations sufficiently similar to those encountered at the site that their use is well suited to the particular site.

The potential ARARs for the Site include three types:

- Chemical-specific
- Location-specific
- Action-specific

Chemical-specific ARARs are typically health- or risk-based values that when applied to site-specific conditions represent cleanup standards. Location-specific ARARs are related to the geographical position and/or physical condition of the site and may affect the type of remedial action selected. Action-specific ARARs are usually technology-based or activity-based requirements or limitations on actions or conditions taken with respect to specific hazardous substances. The action-specific requirements do not determine the selected remedial alternative, but indicate how or to what level a selected alternative must perform.

Potential ARARs were identified for each medium of potential concern. These potential ARARs are shown in Table 3.

3.6 ASSESSMENT OF RISK

Exposure to contaminants could occur via the potentially complete exposure pathways described in Section 3.4.1 above. Based on the nature of the Site and the extent of contamination, current risks appear limited. The likely greatest potential risk to human receptors is inhalation of contaminant vapors in the workplace. All buildings on the former Case property were

April 12, 2018

HWA Project No. 2007-098

demolished in June 2013; the remainder of the HVOC plume is mostly under roadways. The second most likely exposure risk is to construction workers during soil-disturbing activities. Ecological receptors have limited risk of exposure because the majority of the Site contains buildings or pavement.

These risks can be mitigated under a cleanup action that either removes the contaminants to levels that are protective to receptors or that places controls to prevent exposure. One example of a control is paving over contaminated soil to eliminate direct contact with this exposure route. Such risk mitigation will be a primary factor used in evaluating cleanup action alternatives under a future FS.

4. PROPOSED CLEANUP STANDARDS

Applicable cleanup levels for the Site were selected from WAC 173-340-720 through 173-340-760. A conservative approach was used to select standards that were most protective of human health and the environment for soil and ground water. Selected standards used to evaluate media are listed below.

4.1 CONTAMINANT SPECIFIC STANDARDS

Per WAC 173-340-703, no indicator hazardous substances are selected for this site, which has relatively few COCs, as presented in Section 2.3.2.

4.2 SOIL CLEANUP STANDARDS

4.2.1. Soil Cleanup Levels

Proposed soil cleanup levels are the MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses (WAC 173-340-900, Table 740-1), and MTCA Method B Direct Contact values:

- PCE 0.05 mg/kg (Method A)
- TCE 0.03 mg/kg (Method A)
- Cis-1,2 DCE 160 mg/kg (Method B)
- VC 175 mg/kg (Method B)

Method A Soil Cleanup Levels were selected because they are protective of human health, and the Site is relatively straightforward and only involves a few hazardous substances. Method B values were used for COCs with no Method A value.

4.2.2. Terrestrial Ecological Evaluation

The Site qualifies for an exclusion from a terrestrial ecological evaluation (TEE) due to the absence of more than 1.5 acres contiguous undeveloped land within 500 feet of the contamination.

4.2.3. Point of Compliance

The point of compliance is the specific location(s) at which a particular cleanup level must be met in order to demonstrate compliance of a cleanup action. MTCA defines standard and conditional points of compliance. The standard soil point of compliance under MTCA (WAC 173-340-740 (6)(b)) is:

- For soil cleanup levels based on protection of ground water, the point of compliance shall be established throughout the Site
- For soil cleanup levels based on protection from vapors, the point of compliance shall be established throughout the Site from the ground surface to the uppermost ground water saturated zone

April 12, 2018

HWA Project No. 2007-098

- For soil cleanup levels based on human exposure via direct contact or other exposure pathways where contact with the soil is required to complete the pathway, the point of compliance shall be established in the soils throughout the Site from the ground surface to 15 feet bgs.

MTCA recognizes that, for cleanup actions that involve containment or capping, cleanup levels may not be met at the standard point of compliance, but the cleanup action would be determined to comply with cleanup standards provided:

- The selected remedy is permanent to the maximum extent practicable
- The cleanup action is protective of human health and terrestrial ecological receptors
- Institutional controls are implemented to limit activities that could interfere with the long-term integrity of the containment system
- Compliance monitoring and periodic reviews are conducted
- The capped or contained COCs and measures to prevent migration and contact with them are specified in a CAP

For this Site, points of compliance will be established after a dCAP is completed, and may include soil points of compliance for removal and treatment alternatives (WAC 173-340-740(6)(a)-(e), as well as for containment remedies (WAC 173-340-740(6)(f)).

4.3 GROUND WATER CLEANUP STANDARDS

4.3.1. Ground water Cleanup Levels

Appropriate levels of cleanup for ground water are determined by the highest beneficial use of that ground water. Shallow, likely perched, ground water present at the Site is not currently used for drinking water, and no water wells are located near the Site. The appropriate ground water cleanup levels for the Site are MTCA Method A for ground water (WAC 173-340, Table 720-1) and are provided below.

- PCE 5 µg/L (Method A)
- TCE 5 µg/L (Method A)
- Cis-1,2 DCE 16 µg/L (Method B)
- VC 0.2 µg/L (Method A)

4.3.2 Point of Compliance

The standard ground water point of compliance under MTCA (WAC 173-340-720(8)(b)) is in ground water throughout the Site from the uppermost level of the saturated zone to the lowest depth which could potentially be affected.

For this Site, the standard ground water point of compliance is proposed, i.e., ground water throughout the Site.

4.4 CLEANUP STANDARDS FOR OTHER MEDIA (INDOOR/AMBIENT AIR, SOIL GAS, SUB-SLAB SOIL GAS)

Per MTCA, RIs must include evaluation of vapor intrusion (VI) impacts to indoor air quality when volatile hazardous substances are present in the subsurface. The *Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigations and Remedial Actions* (Ecology, 2009, revised 2016) provides a process for evaluating the VI pathway during an RI/FS (WAC 173-340-350) and subsurface media cleanup levels protective of indoor air quality. This process applies to buildings currently on a site, or future buildings, i.e., cleanup standards and actions must be protective of current and potential future site uses.

The guidance employs a tiered approach, starting with a preliminary assessment, and moving to Tier I and II assessments, if warranted. Initial screening steps in the preliminary assessment include the following:

- Are chemicals of sufficient volatility and toxicity known or reasonably suspected to be present?
- Are occupied buildings present (or could they be constructed in the future) above or near Site contamination?

Both of these conditions exist at the Site, with future buildings likely, and site ground water HVOC concentrations exceed some of the screening levels presented in the *Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State* (Ecology, 2009, revised 2016). Ground water screening levels given in the *Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State* (Ecology, 2009/2016) are as follows:

	Ground Water Screening Level (µg/L)	Method A ground water (µg/L)
tetrachloroethylene	22.89	5
trichloroethylene	1.55	5
dichloroethane;1,2-	4.20	N/A
vinyl chloride	0.35	0.2

Further evaluation of vapor intrusion risks is therefore required, starting with a Tier I Assessment. A Tier I assessment may include:

April 12, 2018

HWA Project No. 2007-098

- Measuring volatile organic compounds (VOCs) concentrations in shallow ground water, soil gas, or sub-building slab soil gas
- Comparing these measured gas concentrations to screening levels
- Predicting indoor air concentrations via modeling and comparing to indoor air standards

Based on the Tier I assessment results, a Tier II assessment may be conducted, which may include:

- Sampling and analysis of indoor air, sub-slab soil gas or crawlspace air
- Comparing these measured gas concentrations to indoor air standards to determine the degree to which the pathway may be currently exposing receptors to subsurface contamination.

As part of the Tier I assessment, HWA modeled vapor intrusion risk using the Johnson Ettinger model as described in the Ecology Vapor Intrusion Guidance (Ecology, 2016). The model uses a simplified one-dimensional analytical solution to evaluate the vapor intrusion pathway into buildings. Chemical, soil, ground water and building properties are input into the model, which then estimates or predicts a unitless attenuation factor. The attenuation factor is the degree to which soil and building properties reduce the concentration of underlying VOCs in indoor air. The model can be run “forward”, where measured ground water concentrations and other variables are input, and the model predicts indoor air concentrations, or “reverse” where a protective indoor air concentration (typically a regulatory standard) is input, and the model predicts the ground water and soil gas concentrations that would be protective of the regulatory standard.

Because there are no buildings on the Site, the “reverse” model was run to predict target media (ground water and soil gas) concentrations protective of MTCA Method B indoor air cleanup levels (summarized below). Site specific input parameters used included:

- Contaminant of concern - tetrachloroethylene, trichloroethylene, dichloroethylene;1,1-, dichloroethylene;1,2-, vinyl chloride
- Depth of contaminant - 2 meters
- Depth can change by - 0.5 meters
- Type of building - basement
- Type of soil - Sand
- Average soil/ground water temperature - 13°C (from guidance)

All other parameters used were the model defaults. Predicted ground water and soil concentration protective of MTCA Method B indoor air cleanup levels are summarized below. Of the HVOCs modeled, TCE appears to be the most conservative with respect to predicted risk (i.e., lowest protective levels). Predicted protective ground water values for DCE and VC exceed

April 12, 2018

HWA Project No. 2007-098

MTCA Method A ground water cleanup levels, whereas the PCE and TCE protective values are lower.

	2015 Indoor Air Cleanup Level Method B Noncancer ($\mu\text{g}/\text{m}^3$)	2015 Indoor Air Cleanup Level Method B Cancer ($\mu\text{g}/\text{m}^3$)	Ground water ($\mu\text{g}/\text{L}$) More protective*	Soil gas ($\mu\text{g}/\text{m}^3$) More protective*
tetrachloroethylene	1.83E+01	9.62E+00	1.995	393.5
trichloroethylene	9.14E-01	3.70E-01	0.085	10.38
dichloroethylene;1,1-	9.14E+01	NA	334	1.7E4
dichloroethylene;1,2-	NA	NA	NA	NA
vinyl chloride	4.57E+01	2.80E-01	0.26	118.2

* of three possible results, less protective, best estimate, and more protective)

Based on this analysis, vapor intrusion risk inside future buildings is possible in areas where ground water HVOC concentrations exceed the values shown above. Vapor intrusion mitigation for future buildings is addressed in the FS (Section 9.1.3) and dCAP.

5. INTERIM ACTION

Two interim actions were completed at the Site.

In May and August 2014, in situ chemical oxidation was performed at the source area, on and adjacent to the former Case property, per the approved work plan (HWA 2014a). In situ chemical oxidation reagents (hydrogen peroxide, chelated iron catalyst) were injected at 51 locations in May and 53 locations in August, at depths corresponding to the water table (6 to 10 feet bgs) to around 20 feet bgs in most places. Reagents were injected into the treatment area subsurface via direct push technology.

Post- chemical oxidation ground water monitoring for 10 months showed no appreciable decrease in HVOC concentrations. In situ chemical oxidation should be a relatively instantaneous process, therefore based on these results, a second phase of interim action was conducted utilizing in situ bioremediation, per the approved work plans (HWA 2014c, 2015a).

In January 2015, in situ bioremediation was initiated at the Site, with reducing agents, nutrients, substrate, and bacteria injected into subsurface soil and ground water in four areas to stimulate biological activity and accelerate degradation of HVOCs. The four areas were:

- Source area, southern part of former Case property, 6 four-inch diameter injection wells and 11 one-inch diameter injection wells.
- First injection row, south of NE 183rd Street in Bothell Way NE, 8 direct push locations
- Second injection row, north of Main street in Bothell Way NE, and at Speedy Auto Glass, 16 direct push locations
- Third injection row, south edge of Main street, 10 direct push locations

Figure 3 shows the injection locations. The installation of six four-inch diameter injection wells (screened at 8-23 feet depth) at the source area (at 10-11 foot spacing) was completed per the approved work plan. A tracer test was conducted on one of these wells by real-time monitoring of a nearby (five feet downgradient) existing monitoring well during injection of reagents. No breakthrough of reagents was detected at the observation well after nearly twice the predicted volume of material (to reach the observation well) was injected. Additional borings drilled and sampled between the injection and observation wells at various depths indicated that the reagents were migrating downwards more than laterally. Based on these results, and the planned objective to include the upper part of the aquifer in the treatment zone, 11 shallow, one-inch diameter PCV injection wells (at 5-6 foot spacing) were installed and screened from 8-13 feet, instead of using the four-inch diameter injection wells.

A second tracer test performed at the third (direct push) injection row, achieved breakthrough very close to the predicted theoretical values, and full-scale injection quantities were adjusted accordingly in that area.

Post in situ bioremediation ground water monitoring results were very favorable, with considerable reduction of HVOC concentrations in the source area, and mixed results in other

April 12, 2018

HWA Project No. 2007-098

areas (HWA 2015 - 2017). Based on the results, a second round of in situ bioremediation was completed in April 2016, per an approved technical memorandum detailing the purpose and rationale for a second round of supplemental bioremediation (HWA 2016b). Bioremediation reagents and bacteria were injected in the following areas:

- Source area, southern part of former Case property, 5 existing one-inch diameter injection wells, 10 new direct push locations. Areas east of the first injection round were targeted to address the limited treatment response observed in the eastern monitoring wells (UCCMW-5, UCCMW-21).
- First injection row, south of NE 183rd Street in and east of Bothell Way NE, 13 direct push locations, north and east of the first round locations. Second round injections in this area were located further upgradient, because the first round may have been too close to the monitoring wells UCCMW-25 and UCCMW-7 to observe any effects.
- Second injection row, north of Main Street in Bothell Way NE, and at Speedy Auto Glass, 17 direct push locations, south and east of the first round locations. The second round injections were meant to target the area represented by wells BB-2 and UCCMW-8, although logistical issues prevented injecting further upgradient as in the first row.
- Third injection row, south edge of Main Street, 25 direct push locations, south, east and west of the first round locations. The second round injections were located over a wider area, to target the area represented by UCCMW-26 and UCCMW-27.

Figure 3 shows the injection locations. Ground water monitoring results following the second round of in situ bioremediation were very favorable, with further reduction of HVOC concentrations in the source area and downgradient locations. The most recent round of ground water monitoring was completed in March, 2017, with the following results (HWA 2015 - 2017):

Source area – PCE concentrations in source area wells continue to drop, generating DCE and VC as reductive dechlorination continues to occur. Only two wells (UCCMW-17 and 21) currently have PCE concentrations above cleanup levels. HVOC concentrations are above cleanup levels in five of the ten source area wells (MW-1, UCCMW-17, 18, 19, and 21); however, redox potential levels are generally favorable for these wells, except UCC-MW-17, which is upgradient of past injections. This increase may be due to the second round of injections pushing some HVOCs upgradient, or causing desorption of HVOCs from soil, and is likely temporary.

First injection row – During previous rounds of sampling before the second round of injections and immediately after, PCE concentrations and redox conditions in UCCMW-25 and UCCMW-7 were essentially unchanged, and it was thought that the first round of injections was too close to these wells, and the injected oil biobarrier had “set up” or bound to aquifer soils downgradient of these wells. The second round of injections was placed further north (upgradient), and appears to have been successful in deploying at or upgradient of these wells. Both wells continue to exhibit favorable early indicators of treatment as well as strong reducing conditions. Daughter products

(TCE, DCE and VC) have increased in both wells after the second round of injections, indicating increased biological activity.

Well BI-3 has not been sampled since January 2016 due to it being damaged during construction activities. It was repaired and sampled during the most recent sampling event. BI-3 continues to show similar results to previous quarters sampled prior to the second round of injections, with vinyl chloride being the only HVOC above cleanup levels.

Second injection row – BB-2 remains mostly unchanged, with redox conditions remaining oxidative. This may suggest that perhaps the area may have been too close to the second round of injections, or the injections may not have been deep enough, as this well is screened slightly deeper than the others (to 19 feet).

UCCMW-8 responded to the second round of injections, with decreased oxidation-reduction potential (ORP), and a marked decrease in PCE coupled with increased daughter products (TCE, DCE and VC).

Third injection row – All HVOCs in UCCMW-26 have dropped to below cleanup levels for the first time, and all HVOCS except VC are below cleanup levels in UCCMW-26, indicating success of the second round of injections. Some PCE daughter products have increased, and future cleanup level exceedances are still possible.

Interpretation of the most recent monitoring results by area is summarized below:

- **Source area** – The source area continues to show positive signs of treatment, with overall decreasing HVOCs in most wells. Increased PCE in UCCMW-17 may be due to desorption of HVOCs from soil after the second round of injections, and is likely temporary. PCE concentrations in UCCMW-5, UCCMW-20, and UCCMW-21, downgradient of the source area, have decreased after the second round of injections placed further west.
- **First injection row** – The second round of injections (placed further upgradient), appears to have reached UCCMW-7 and UCCMW-25, which had not responded to the first round of injections, based on reducing conditions and other indicator parameters. HVOC concentrations in UCCMW-25 are essentially unchanged since the second injections, and are decreased in UCCMW-7, although HVOC concentrations in both wells are only slightly above cleanup levels. However, daughter products (TCE, DCE and VC) have increased in both wells after the second round of injections, indicating increased biological activity.
- **Second injection row** – UCCMW-8, which was unaffected by the first round of injections, is now responding to the second round of injections placed further west, with decreased ORP, and a marked decrease in PCE coupled with increased daughter products (TCE, DCE and VC). BB-2 however, appears unaffected by either round of treatment and this area may require further cleanup efforts.

April 12, 2018

HWA Project No. 2007-098

- **Third injection row** – Both wells UCCMW-26 and UCCMW-27 appear to be responding positively to treatment from the last round of injections, with most HVOCs below cleanup levels. Some PCE daughter products have increased, and future cleanup level exceedances are still possible.

Problematic areas – The second injection row, UCCMW-8 and BB-2, may have been injected too close, or injections may have not been deep enough. Sampling results taken from 2014 to 2017 indicate that the concentrations in BB2 have not changed. Due to the site layout, access to inject further north was not possible (the Speedy Glass building and driveway just north of the second round injection area). However, treatment is likely occurring downgradient of these wells.

6. FEASIBILITY STUDY

6.1 IDENTIFICATION OF CONTAMINATION TO BE REMEDIATED

Sections 4 and 5 (above) describe the current status of soil and ground water contamination at the Site. Soil and ground water at the Site are impacted by HVOCs exceeding cleanup levels.

6.2 SCREENING OF REMEDIAL TECHNOLOGIES

Under MTCA, the development of a cleanup plan requires that technologies capable of meeting cleanup objectives are screened and then assembled into remedial alternatives. These alternatives are then evaluated, compared, and preferred alternatives identified.

This section includes review of available cleanup technologies, initial screening of the technologies, and selection of technologies to be further evaluated. The initial screening of treatment technologies is based on technical feasibility, i.e., available site data and knowledge of design parameters for potential treatment technologies. The selected cleanup technologies are then screened for overall effectiveness, implementability, and relative cost to identify a short-list of potentially applicable technologies, that are then assembled into cleanup alternatives.

The initial technologies screened for the Site include:

- Source Control
 - Excavation and removal
 - Electrical resistive heating

- In situ ground water treatment
 - Chemical oxidation
 - Chemical reduction
 - Air sparging
 - Soil vapor extraction
 - In situ bioremediation
 - Bioremediation with Ground Water Recirculation

- Pump and treat

- Permeable reactive barriers
 - Zero valent iron
 - Funnel and gate with zero valent iron

- Monitored Natural attenuation

- Engineering controls
- Institutional Controls

Section 6.3 describes each of the technologies evaluated during screening, including information on the technology effectiveness, implementability, and relative cost. Technologies retained to be carried forward in development of remedial alternatives are summarized in Section 8.

MTCA regulations place a preference on the use of permanent cleanup methods such as removal, disposal, or treatment relative to those that manage contaminants in place using institutional controls, natural attenuation and/or containment. The discussion of the benefits and disadvantages of each candidate technology is described but not weighted in this section. The MTCA preferences for selection of remedy are reflected in regulatory evaluation criteria which will be described and applied in the Draft Cleanup Action Plan.

6.3 REMEDIATION TECHNOLOGIES

6.3.1 Source Control

6.3.1.1 Excavation and Off-site Disposal

DESCRIPTION / ENGINEERING DISCUSSION

Excavation and off-site disposal of contaminated soils is a common remedial approach for source removal. Excavation would remove the source of contamination and is typically followed by various off-site treatment or disposal alternatives.

APPLICABILITY

The advantages of source removal include:

- Contaminants are removed from the Site
- Rapid restoration timeframe

The disadvantages of source removal include:

- Transportation off site for treatment or disposal of contaminated soils carries some risks
- Requires importing and compacting clean backfill to replace removed soils
- Difficult / impractical to excavate below ground water level
- High energy usage / carbon footprint
- Site disturbance (noise, traffic, dust, etc.)

Source removal is identified as a potentially applicable cleanup method for further evaluation, although there is no well defined soil source to excavate.

6.3.1.2 Electrical Resistance Heating

DESCRIPTION

Electrical resistance heating (ERH) involves heating the soil and ground water using electrodes drilled into the soil, and connected to a source of electricity, resulting in resistive heating of the ground. The ground is heated to above the boiling point of the target contaminants, which then volatilize (evaporate) into the unsaturated zone where they are removed by a soil vapor extraction system.

ENGINEERING DISCUSSION

Electric current is passed through a targeted soil volume between subsurface electrodes. Resistance to electrical flow in the soil causes heat, resulting in an increase in temperature until the boiling point of water at depth is reached. After reaching this temperature, further energy input causes a phase change, forming steam and removing volatile contaminants. ERH is typically more cost effective when used for treating contaminant source areas.

Installation of the ERH system includes drilling boreholes, installing electrodes and soil vapor extraction screens in each borehole, and staging and connecting operating equipment (power control unit, transformer, power cables, vapor recovery lines, activated carbon, steam condenser, blower, and cooling tower). The boreholes are drilled in a triangular grid pattern (typically 15-foot spacing) that is located to optimize electrical and thermal distribution in the subsurface. The backfill around the electrode/vapor screen consists of a conducting material such as a sand and graphite or sand and steel shot mix. The electrodes are in electrical contact with the soil matrix throughout the target soil zone. The vapor extraction screen would be positioned over the target interval, in the unsaturated zone.

Once the electrode and vapor recovery system is constructed, including connection of all electrical and vapor lines at the surface, then the system would undergo functional testing. After testing is successfully completed, the system would be turned on. Electrical power is supplied continuously to the electrodes to heat up the subsurface. Heating the soil to the target temperature of 190°F to 205°F usually takes 3 to 6 months. After the target temperature is achieved, it would be maintained for a period of several months to complete the thermal treatment. During the entire heating period, the vapor extraction system would be operating. As the soil is heated, contaminant vapor flow in the recovery system would progressively increase as the volatility of the contaminants increases. When the soil temperatures get close to the target, a significant amount of water would start to vaporize, which creates a steam-stripping effect for the volatiles. This steam is subsequently condensed in the steam condenser. Because of the heat and the steam-stripping effect, the removal of volatile

contaminants from low-permeability silty soils is much more effective than standard air sparging and soil vapor extraction.

The progress of treatment with ERH is monitored through soil temperature monitoring of the subsurface, periodic collection and analysis of extracted vapors, and soil sampling for treatment confirmation. Thermocouples located at 5-foot intervals spanning the vertical target treatment zone would be used to track the subsurface soil temperature profile as it approaches and attains the target temperature. Air samples collected weekly from the vapor recovery line, after the condenser and before the activated carbon treatment, would be used along with vapor recovery stream flow-rate readings, to track the total amount of volatile contaminants removed from the subsurface as thermal treatment progresses. The soil samples, typically collected at 60, 90, and 100 percent of the thermal treatment cycle, would be used to verify the extent of contaminant removal indicated by the air sampling results.

One of the uncertainties with the application of ERH is the resultant final concentrations of soil contaminants when the system reaches a point of diminishing returns during the treatment cycle, and a decision is made to shut down the system. This technology has been utilized successfully at many petroleum and chlorinated VOC sites, with more than 99 percent mass removal and often greater than 99.9 percent; yet the final soil concentrations at the site are difficult to predict accurately to determine if cleanup levels were achieved. However, a recognized benefit of the ERH process is contaminant degradation that continues to occur by in-situ abiotic or biotic reactions even after heating ceases. Further biostimulation may also be used as a polishing step.

APPLICABILITY

Permeable soils at the site and the volatile COCs are generally amenable to ERH.

The advantages of ERH oxidation include:

- Rapid time frame compared to other in situ methods
- Finer grained soils which are hard to treat by almost all other in situ methods, are heated more due to greater soil resistance
- Contaminants are removed from the site

The disadvantages of in situ chemical oxidation include:

- Somewhat invasive, use of the site is limited during treatment, which can take many months
- Unsuitable in soils with high organic carbon
- Requires a large electrical service and power drop
- Typically only applied in source areas, not suitable for entire plume

ERH at the Site is ruled out as a potentially applicable cleanup method for further evaluation, due to the absence of a well defined source zone, which is typically targeted with ERH.

6.3.2 In-situ Ground Water Treatment

In situ methods involve the injection of liquids or air into the subsurface, to treat HVOCs by a variety of means. In situ methods are more effective as soil permeability increases.

6.3.2.1 In-situ Chemical Oxidation

DESCRIPTION

In situ chemical oxidation involves the introduction of chemical oxidants (e.g. Fenton's reagent, permanganate, persulfate, ozone, hydrogen peroxide, etc.) into the subsurface to destroy organic contaminants.

ENGINEERING DISCUSSION

Different oxidants have varying oxidation potentials, or strengths, and applicability to different contaminants. The oxidant must be in aqueous contact with the contaminants, therefore considerations for treatment efficacy include distribution of contaminants, phase of contaminants, presence of other compounds that consume oxidant (e.g., other forms of organic carbon), and the ability to introduce and distribute the oxidant in the subsurface.

Pilot scale studies are typically performed to determine parameters for optimum performance of a full scale system (e.g., flow rates, pressures, well spacing).

APPLICABILITY

Permeable soils at the site are generally amenable to in situ methods. HVOC contaminants present are amenable to in situ chemical oxidation.

The advantages of in situ chemical oxidation include:

- Contaminants are destroyed, leaving harmless byproducts

The disadvantages of in situ chemical oxidation include:

- Not effective where other organics are present (e.g., peat) as the oxidation demand is generally too great to be practical. Alluvial soils at the Site may contain organics, and are not suitable for this method.

- Injected oxidants may adversely impact future bioremediation efforts or natural attenuation, which rely on anoxic conditions.
- Injection permits may be required
- Multiple treatments may be required
- Inability to access lower permeability zones in mixed (heterogeneous) subsurface conditions
- May cause short term increases in concentrations due to contaminant desorption
- Injected material may surface, travel along utilities, or damage wells, due to high injection pressures

In situ chemical oxidation at the Site property is ruled out as a potentially applicable cleanup method for further evaluation, because it was attempted once as an interim action and did not work.

6.3.2.2 In-situ Chemical Reduction

In situ chemical reduction involves the introduction of chemical reducing agents (typically zero valent iron) into the subsurface to destroy organic contaminants. The technology and features are very similar to in situ chemical oxidation (described above), although the chemical process is essentially the opposite. The reducing conditions created are compatible and augment any in situ bioremediation efforts (described below).

In situ chemical reduction is not identified as a potentially applicable primary cleanup method for further evaluation, but may be used in conjunction with other technologies, e.g., in situ bioremediation.

6.3.2.3 Air Sparging

DESCRIPTION

Air sparging involves introducing compressed air into the ground water. The introduction of air below the ground water table enhances volatilization of contaminants dissolved in ground water and sorbed onto saturated soils. Volatilized contaminants are then recovered via vapor extraction of the overlying vadose zone. Low molecular weight, volatile compounds such as PCE, TCE, DCE and vinyl chloride are generally amenable to air sparging. Air sparging would be combined with soil vapor extraction to remove the contaminants, which is discussed in the next section.

ENGINEERING DISCUSSION

The same contaminant criteria apply as for vapor extraction and air stripping (i.e., more volatile, less soluble compounds are more amenable to treatment). Well spacing is generally tighter than for ground water gradient control, as the radius of influence of air is less, typically 15 to 30 feet.

The systems are often pulsed (turned on and off) to minimize channeling of air and encourage mixing of ground water in the subsurface.

APPLICABILITY

Although permeable soils exist at the site, the presence of silt layers suggests a heterogeneous subsurface environment, which may not be amenable to air sparging. The depth of contamination is also a potential drawback.

Advantages of air sparging include:

- Low capital costs
- Minimal site disruption

Disadvantages of air sparging include:

- Requires electricity and some land area for the wells and treatment system components.
- Requires pilot testing to establish design parameters (i.e., pressure, well spacing, SVE vacuum, discharge gas concentrations)
- Low injection radius of influence (more wells may be required)
- Inability to access lower permeability zones in mixed (heterogeneous) subsurface conditions, i.e., air may preferentially flow through more permeable channels
- Potential upwelling of ground water and modification of existing gradients
- Performance monitoring may be biased, as air may preferentially flow into the monitoring well filter packs, potentially biasing the results
- Potentially long restoration timeframe

Air sparging at the Site is ruled out as a potentially applicable cleanup method for further evaluation, due to the drawbacks in this specific application, including large treatment area, low permeability soils in the southern part of the plume, and presence of the Bothell Way NE roadway over much of the plume.

6.3.2.4 Soil Vapor Extraction

DESCRIPTION

Vapor extraction is the process of removing contaminants from the soil in the vapor phase, usually by applying a vacuum to the subsurface. This is done through the use of a series of wells or trenches which are placed throughout the area of contamination and screened above the ground water table. Some of the wells are connected to a blower which draws a vacuum. With the reduced pressure, air begins to move through the subsurface drawing out the contaminant vapors.

Other wells may be connected to a compressor that injects air into areas surrounding the extraction wells. The end effect is a flow-through system that draws out the contaminant vapors. Through proper placement of injection and withdrawal wells the flow of air can be focused on the area of contamination.

The withdrawn air may require treatment, depending on contaminant concentrations. Common processes for cleaning this air include vapor phase carbon adsorption, catalytic converters, or thermal converters (oxidizers).

ENGINEERING DISCUSSION

Vapor extraction systems are most effective remediating contaminants having fairly high vapor pressures. Low molecular weight, volatile compounds such as PCE, TCE, DCE and VC are generally amenable to vapor extraction.

Increased soil permeability facilitates vapor extraction. As the average permeability of the contaminated soil decreases the cost of vapor extraction system increases due to the need for more wells and larger blowers. Proper spacing of injection and extraction wells requires some preliminary site work to determine the soil air permeability.

Based on the ground water concentrations present at the Site, off-gas treatment will not likely be required, although air dispersion modeling will be required as part of the permitting process. This modeling and permitting efforts should be conducted early in the project to make sure original planning and cost assumptions are valid.

APPLICABILITY

Vapor extraction may be feasible at the site, due to volatile HVOCs and generally permeable soils.

Advantages of vapor extraction include:

- Less site disruption than mass excavation methods
- Because the process involves the continuous flow of air through the soil, it often promotes in situ biodegradation of low volatility organic compounds

Disadvantages of vapor extraction include:

- Site would need to be capped to maintain subsurface negative pressures
- Contaminants are not destroyed if no off-gas treatment is used
- Contaminated off-gas may require treatment
- Possible air permit requirements

- Operation and maintenance requirements, long-term on-site equipment required
- Treatment times may be slower than other more aggressive remediation methods
- Inability to access lower permeability zones in mixed (heterogeneous) subsurface
- Depth of ground water contamination may not be amenable to treatment

Vapor extraction at the Site is ruled out as a potentially applicable cleanup method for further evaluation, due to the drawbacks in this specific application, including large treatment area, low permeability soils in the southern part of the plume, and presence of the Bothell Way NE roadway over much of the plume.

6.3.2.5 In-situ Bioremediation

DESCRIPTION / ENGINEERING DISCUSSION

In situ bioremediation processes treat soil and ground water in place, without removal or transportation offsite. Bioremediation uses microorganisms to degrade organic contaminants in soil, ground water, sludge, and solids. The microorganisms break down contaminants by using them as an energy source or cometabolizing them with an energy source. The primary COCs at the Site (PCE, TCE, DCE, and VC) respond most favorably to anaerobic bioremediation. To stimulate and enhance microbial activity, microorganisms (**bioaugmentation**) or amendments (**biostimulation**), such as organic substrates, other electron donors/acceptors, nutrients, or other compounds that affect treatment can be added. Biostimulation can be used in conjunction with bioaugmentation where the bacteria necessary to degrade the contaminants are present but conditions do not favor their growth (e.g., anaerobic bacteria in an aerobic aquifer, aerobic bacteria in an anaerobic aquifer, lack of appropriate nutrients or electron donors/acceptors). Bioaugmentation can be used when the bacteria necessary to degrade the contaminants do not occur naturally at a site or occur at too low of a population to be effective. Biostimulation and bioaugmentation can be used to treat soil and other solids, ground water, or surface water.

Specifically, bioremediation of a chlorinated solvent like PCE at this site would involve addition of an energy source (electron donor such as emulsified vegetable oil) and/or addition of a microbial culture if necessary (usually recommended).

Under the proper conditions, monitored natural attenuation, which can include an intrinsic biodegradation process that depends on indigenous microorganisms to degrade contaminants without any amendments, may be an appropriate approach for the lower concentration portions of a site.

Many in-situ bioremediation approaches involve the addition of chemicals in the subsurface. Injection of chemicals is typically accomplished with direct-push probe drilling equipment or via permanent injection wells, often in multiple treatments.

Treatability studies and/or pilot tests may be performed to determine the biological and chemical conditions in the subsurface at the site. These tests provide biodegradation rates for specific contaminants, as well as parameters for optimum performance of a full scale system (e.g., flow rates, oxygen and nutrient levels).

APPLICABILITY

Permeable soils at the site would facilitate in-situ treatment. The contaminants present are amenable to bioremediation.

Advantages of an in-situ bioremediation system include:

- Contaminants break down into harmless by-products
- Less site disruption than mass excavation methods

Disadvantages of an in-situ bioremediation system include:

- Possible injection permit requirements
- Inability to access lower permeability zones in mixed (heterogeneous) subsurface conditions
- Injection of materials may cause plugging of wells and/or the aquifer by chemical precipitation or biofouling
- PCE breaks down via reductive dechlorination into TCE, DCE, and vinyl chloride. Complete breakdown into harmless ethenes is not likely to be achievable given the short distance from the treatment area to the river

In-situ bioremediation is identified as a potentially applicable cleanup method for further evaluation.

6.3.2.6 Bioremediation with Ground Water Recirculation

DESCRIPTION / ENGINEERING DISCUSSION

Ground water is captured via conventional extraction wells, amended with a soluble electron donor such as lactate, and recharged back to the aquifer. Biodegradation is initiated when the electron donor is flushed through the formation to create a Biologically Active Zone (BAZ) around and immediately down gradient of each injection well (AFCEE 2004). Within the BAZ, bioremediation will increase the HVOC concentration gradient through destruction of HVOCs in situ, thus enhancing diffusion of HVOCs from low K layers and the removal of sorbed HVOCs, resulting in a higher flushing efficiency.

Reinjection method(s) and rate(s) would be performed in accordance with injection permit criteria and hydraulic parameters for the aquifer collected during the RI.

APPLICABILITY

Advantages of ground water recirculation

- Maintains ground water balance and pre-existing gradient
- Eliminates need for other discharge options (e.g., storm drain, sanitary sewer)
- Higher efficacy than in situ methods solely relying on injections, due to:
 - i) electron donor delivery throughout the plume is more uniform and can be addressed with fewer wells than a passive configuration in which electron donors such as edible oils are directly injected into the aquifer at many locations;
 - ii) active pumping will induce higher hydraulic gradients, resulting in increased ground water velocities and improved mixing and mass transfer, which will increase the degradation rates in comparison to ambient conditions;
 - iii) monitoring is facilitated because the impact of heterogeneity is reduced. Monitoring at the extraction wells can be used to monitor system performance;
 - iv) Transport and dispersion of added microorganisms throughout the treatment area is enhanced;
 - v) Biomass produced within the aquitard from lactate metabolism will serve as an electron donor as it decays potentially allowing the interval between injections to be increased over time (this is minor point because it does not cost much to keep injecting);
 - vi) Excessive production of sulfides and methane gas can be minimized by optimizing the amount of electron donor added to degrade the TCE

Disadvantages of ground water recirculation

- A need for active ground water extraction/injection system which requires maintenance;
- The potential for fouling, and costs associated with rehabilitation of the injection wells;
- Permitting – Ecology may not allow reinjection of pumped ground water if it still exceeds cleanup levels.
- Disruption to site development: additional wells, piping, electrical service, and land area for equipment are required

Ground water recirculation is not identified as a potentially applicable cleanup method for further evaluation, due to the large treatment area, low permeability soils in the southern part of the plume, and presence of the Bothell Way NE roadway over much of the plume.

6.3.3 Pump and Treat

DESCRIPTION

Pump and treat methods assume a ground water pumping system capable of recovering ground water over the extent of known contaminated areas, and effectively halting further plume migration. Several treatment alternatives are described in the following sections. Treated water can be discharged to sanitary sewers, storm drains, surface waters, or reinjected into the ground, depending on project requirements and regulatory approval.

ENGINEERING DISCUSSION

For any remediation plan involving ground water pumping, an analysis of subsurface conditions should be performed which will provide information on ground water flow and soil hydrogeologic properties. At least one aquifer pumping test should be performed. This process involves pumping a well at the site for a period of time and observing water level changes in the pumped well and at several observation wells during and after pumping. The information gathered during the pumping test is then used to calculate the aquifer hydraulic conductivity, transmissivity and storage coefficient/specific yield.

The information supplied by the pumping test can be applied to ground water flow modeling. Computer flow modeling is used to predict the effects of ground water pumping and/or injection on an aquifer at a specific site. This information is then used to determine the design parameters of the ground water treatment system, such as recovery well design, locations, discharge rates, and treatment system sizing.

Treatment of ground water by pump and treat methods typically requires long treatment times. In most cases, contaminant concentrations in ground water decrease asymptotically as treatment progresses. In some cases the final concentration reached is above regulatory levels and cleanup goals. If pumping and treatment are then discontinued, contaminant concentrations frequently rebound, as contaminants are desorbed from the soil matrix into the ground water. In general, pump and treat systems are effective at achieving gradient control (halting plume migration) and removing the bulk of contaminants. These methods are generally not effective in reaching cleanup goals or achieving a lasting remediation.

APPLICABILITY

Pump and treat remediation duration is difficult to predict. Duration estimates based on the number of pore volumes recovered are generally not accurate, as dissolved phase contaminants continually release from soil sources, if source areas are not cleaned up.

Advantages of pump and treat methods include:

- Easily implementable and combined with other technologies
- Less site and vicinity disruption during cleanup
- Effective gradient control

Disadvantages of pump and treat methods include:

- Long restoration timeframe in the presence of continuing releases from soil sources
- Continuing operation and maintenance (O&M) requirements and costs

Pump and treat methods at the Site are ruled out as a potentially applicable cleanup method for further evaluation, due to the limited anticipated effectiveness.

6.3.4 Permeable reactive barriers

DESCRIPTION / ENGINEERING DISCUSSION

Permeable reactive barriers (PRBs) are zones of treatment in the subsurface, created by trenching or a line of borings or wells. These zones passively capture a plume of contaminants in the ground water as it moves past them, and removes or breaks down the contaminants via chemical processes, biological activity, sorption or precipitation, leaving the treated ground water to pass through the zone.

APPLICABILITY

Advantages of PRBs include

- Low O&M once installed
- No power requirements
- No discharge requirements
- Can build on top of the PRB after installation

Disadvantages of PRBs include

- Depth limitations
- Barrier designs treat dissolved contaminants only
- Small potential for fouling or losing reactivity
- Site disruption / footprint due to excavation
- Additional monitoring parameters may be required to evaluate potential by-products of the PRB process.

Two types of PRBs are described below.

6.3.4.1 Zero valent iron

DESCRIPTION / ENGINEERING DISCUSSION

Zero valent iron (ZVI) is a strong reducing agent, and acts to destroy organic contaminants such as HVOCs. ZVI can be placed in a PRB along with sand, to increase permeability and allow ground water to pass through. The design thickness of the ZVI wall depends on the residence times required to treat specific compounds, which in turn is dependent on the ground water velocity and contaminant concentrations.

A ZVI PRB is identified as a potentially applicable cleanup method for further evaluation.

6.3.4.2 Funnel and gate with zero valent iron

DESCRIPTION / ENGINEERING DISCUSSION

Funnel and gate methods involve constructing one or more subsurface hydraulic barrier walls oriented such that they direct ('funnel') ground water to a PRB (the 'gate'). Barrier walls may be sheet piles or slurry walls (a trench filled with bentonite and soil).

APPLICABILITY

Funnel and gate methods are used where large areas of ground water need to be captured, typically to reduce costs of the PRB / treatment area, as the cutoff walls may be less costly. The treatment zone will likely need to be thicker than a full PRB to achieve residence times as described above, as ground water velocities will increase in the 'gate' area. Some designs incorporate "cells" of reactive material that can be replaced as the material is depleted.

Funnel and gate PRBs are ruled out as potentially applicable cleanup methods for further evaluation, because the plume is so narrow that a full PRB would be just as feasible (i.e., no funnel needed).

6.3.5 Monitored Natural Attenuation

DESCRIPTION

Monitored natural attenuation is the practice of allowing natural (physical, chemical and biological) processes in soil and ground water to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in those media. Monitored natural attenuation requires first establishing that conditions are favorable for those processes, and monitoring to ensure they are occurring.

ENGINEERING DISCUSSION

Monitored natural attenuation processes include biodegradation, dispersion, dilution, adsorption, volatilization, and chemical or biological stabilization or destruction of contaminants. Monitored natural attenuation is a viable approach where dissolved contaminant concentrations in ground water are low, potential receptors are not in danger of being affected, and natural attenuation of contaminants is known or likely.

Under MTCA (WAC 173-340-370) natural attenuation is considered appropriate at sites where:

- Source control has been conducted to the maximum extent practicable
- The remaining contaminants do not pose an unacceptable threat to human health or the environment
- There is evidence that natural processes are occurring at a reasonable rate
- Monitoring is conducted to ensure that the attenuation is occurring and human health and the environment are protected

APPLICABILITY

HVOCs are generally suited to monitored natural attenuation, as they are amenable to biodegradation and volatilization under a wide range of subsurface conditions.

Advantages of monitored natural attenuation include:

- Low impact to site
- Low cost

Disadvantages of monitored natural attenuation include:

- Long restoration time frame / ongoing monitoring particularly for HVOCs

Monitored natural attenuation is not identified as a potentially applicable *primary* cleanup method, but may be used after some period of time after active treatment, if contaminant levels decrease to acceptable levels.

6.3.6 Engineering and Institutional Controls

Engineering controls typically include barriers between site contaminants and potential receptors, and are often combined with institutional controls at sites with contaminants remaining after cleanup.

Properly designed and constructed engineering controls can be effective, implementable, and cost-effective in eliminating or reducing exposure to site contaminants. The likely engineering controls at the Site would include vapor intrusion mitigation on buildings, covering impacted areas with an access-restricting cap, and/or controlling recharge and infiltration of storm water.

6.3.6.1 Engineering Controls

DESCRIPTION

Engineering control technologies typically include an access-restricting cap or cover over contaminated soils or ground water. Caps serve to 1) limit potential exposure to human or ecological receptors, 2) decrease volatilization of contaminants, 3) decrease leaching to ground water through reduction of recharge or infiltration of precipitation, and in some cases, 4) decrease migration of contaminants due to changing ground water gradients.

Another engineering control likely at this site is vapor intrusion mitigation for buildings. This will likely consist of either passive or active barrier systems designed to prevent entry of HVOC vapors into any occupied space. Passive systems typically rely on impermeable barriers incorporated into a buildings foundation and floor. Active systems typically employ air blowers and a layer of permeable gravel under the building, which also prevents entry of HVOC vapors into the occupied space.

ENGINEERING DISCUSSION

Based on future planned commercial development at the Site, the most likely cap would consist of buildings, pavement, and other low-permeability and access-restricting covers in landscaped areas. A low permeability and access-restricting cover would address human health and protection of ground water pathways under MTCA. Selection of vapor intrusion mitigation systems for buildings (e.g., active or passive) will depend on design criteria for each building. For new construction (i.e., not existing buildings) passive barriers are easier and less costly to install, and more effective as no ongoing operation or maintenance is required after construction.

APPLICABILITY

The advantages of engineering controls include:

- Easily implementable
- Less site and vicinity disruption during cleanup

The disadvantages of engineering controls include:

- Contaminants are left on site

April 12, 2018

HWA Project No. 2007-098

- Ongoing maintenance, institutional controls, and periodic review are needed
- Possible restrictions on site use

Engineering controls / capping are identified as a potentially applicable cleanup method, and may be used in conjunction with some form of more active treatment.

6.3.6.2 Institutional Controls

DESCRIPTION / ENGINEERING DISCUSSION

Institutional controls are administrative or legal mechanisms that ensure the long-term performance of cleanup actions, typically in conjunction with other cleanup technologies. Institutional controls are typically applied on cleanups where contaminants are not completely removed from a site. The institutional controls document the presence of remaining contaminants, regulate the disturbance and access to those contaminants, and ensure continued maintenance and monitoring of the cleanup action.

Examples of institutional controls include environmental covenants (deed restrictions), restrictions placed by a government agency (e.g., codes, ordinances, etc.), and O&M plans. Environmental covenants document the remedial action in Ecology and County property records, and include provisions which 1) prohibit activities that may impact the remedial action, create new exposure pathways, or create access to, or release of remaining contaminants, 2) ensure the provisions are met by property lessees, 3) ensure conveyance of the covenant with the land, 4) require notification of property transactions, and 5) allow site access to the regulatory agency. O&M plans are typically for on-site workers and similarly protect the integrity of remedial actions and ensure the health and safety of site workers and visitors.

Institutional controls are effective, implementable, and cost-effective mechanisms at sites where contaminants are not completely removed or destroyed, and site use is consistent with the overall remedial action. The likely institutional controls at this site would include an environmental covenant and monitoring.

APPLICABILITY

Institutional controls are not typically a stand-alone remedy; remediation objectives are usually met by combining with another cleanup method. The advantages of institutional controls include:

- Easily implementable and combined with other technologies
- Less site and vicinity disruption during cleanup

The disadvantages of institutional controls include:

- Institutional controls alone will not meet MTCA cleanup standards

April 12, 2018

HWA Project No. 2007-098

- Contaminants are left on site
- Ongoing maintenance, institutional controls, and periodic review are needed
- Possible restrictions on site use

Institutional controls are identified as a potentially applicable cleanup method for further evaluation and may be used in conjunction with some form of more active treatment.

6.4 SUMMARY OF TECHNOLOGIES CARRIED FORWARD

The remedial technologies described above were screened for overall effectiveness, implementability, and relative cost, resulting in a short-list of potentially applicable technologies for further evaluation. The following technologies are carried forward for assembly into ground water cleanup alternatives that meet MTCA threshold and other requirements for selection of remedy:

- Excavation and removal of soil
- In-situ bioremediation
- Permeable reactive barrier / Zero valent iron
- Engineering controls
- Institutional controls
- Monitored natural attenuation

7. ASSEMBLE AND SCREEN REMEDIATION ALTERNATIVES

The technologies screened and identified for further consideration in the preceding sections were combined to meet the Site remedial action objectives and requirements of MTCA, resulting in the development of remedial alternatives. The alternatives were then evaluated to select preferred alternatives. Proposed alternatives for addressing HVOC impacts to soil and ground water at the Site are:

- Excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls
- Permeable reactive barrier/ZVI, monitored natural attenuation, engineering and institutional controls
- In situ bioremediation, engineering controls, and institutional controls

The following sections describe each alternative, including all component cleanup technologies and costs.

7.1 EXCAVATION AND REMOVAL OF SOIL, IN SITU BIOREMEDIATION, MONITORED NATURAL ATTENUATION, ENGINEERING AND INSTITUTIONAL CONTROLS

The four components of this alternative are discussed below.

7.1.1 Excavation and Removal of Soil Hot Spots

Although no soil source area was identified, the area with highest soil and soil gas HVOC concentrations at the southwest part of the former Case property could be excavated, and contaminated soil loaded onto trucks, and transported to an approved Subtitle C or D landfill, depending on the concentrations.

PCE and TCE are listed dangerous wastes under the state Dangerous Waste regulations (WAC 173-303). Soils with any detectable concentrations of these listed wastes require special handling and disposal if excavated. If PCE and TCE concentrations are less than RCRA land disposal restrictions, and less than Method B direct contact levels, Ecology may issue a “contained in” determination allowing disposal of the soils at a Subtitle D landfill. Soils with higher concentrations will designate as Dangerous Wastes and must be sent to a Subtitle C facility for treatment, stabilization, and/or disposal.

Although currently unknown, for the purposes of this FS, up to 5,000 tons of soil is assumed. Total estimated cost of the soil removal only is approximately \$950,000, assuming the soil can be disposed of under a contained in determination. Cost estimates for this and the other potential remedial alternatives are included in Appendix D.

7.1.2 In-Situ Bioremediation

In Situ Process - Bioremediation would be implemented in the form of injected biobarriers, at two or more locations along the plume length. The location of infrastructure, utilities and monitoring wells will determine where this can be done.

Shallow injections may be performed via direct push drilling. Intermediate and deep injections will employ drilled wells, due to the depth limitations of direct push methods. Injection wells will be installed with a roto-sonic drill rig to reduce smearing of fine grained material if possible. This will reduce the chance of the injection wells being biofouled.

In the source area, bioremediation would be implemented along with injecting microscale zero-valent iron (mZVI) especially in the intermediated and deeper zones.

Based on existing data ground water conditions are already anaerobic in much of the plume. The most useful donor for installing biobarriers is emulsified vegetable oil (AFCEE 2007). Emulsified oil essentially behaves like a dilute milk solution during injection, allowing the normally immiscible oil to be transported with water. Because of this behavior, implementation is possible via either wells or direct push injection, and coverage can be very complete.

Micro- or nano-scale ZVI will also be used for treatment of high concentration source areas. ZVI can destroy contaminants directly and also maintain the anaerobic and pH conditions required for bioremediation.

Within two months after injection, the emulsion “breaks” due to bacterial action, and the oil droplets adhere to the soil particles, leaving a barrier of electron donor in place. The oil droplets then dissolve slowly into ground water at a rate that is compatible with maintaining anaerobic conditions and supplying electrons to the microorganisms. The duration of release will in part be dependent on the initial oil concentration injected. Emulsified oil has been used at hundreds of locations and donor release has been observed to last for many years after injection (AFCEE 2007).

Because of the relatively high ground water velocity at this site, the emulsified oil will initially drift down gradient with ground water flow, creating a fairly long barrier or treatment zone (in the direction of flow).

There has been a large number of successful case studies using bioremediation including barriers with emulsified vegetable oil. This technology gives excellent coverage and is more easily replenished if necessary. Although it necessarily creates unwanted intermediates (vinyl chloride), bioaugmentation can reduce the likelihood of vinyl chloride persisting. In addition, there are other biological (cometabolic biodegradation) and abiotic reactions that may come into play to remove intermediates between barriers where conditions may not be as anaerobic.

Injection protocol for each location will include the following elements:

April 12, 2018

HWA Project No. 2007-098

- Mix hydrant water with granular ZVI for approximately 24 hours to remove chlorine and create anoxic water (ORP < - 100 mV, dissolved oxygen [DO] < 0.5 mg/L) in a tank large enough for the next day's injection volume.
- Inject small volume of anaerobic water (50 -100 gals) with oil
- Inject bioaugmentation culture (approximately 20 liters/well and 4 liters/distribution point)
- Inject emulsified oil with mZVI in anaerobic water.
- Short water flush, no donor

The first step must be repeated each day when there will be an injection the following day. The final two steps will be repeated each day until the desired volume is achieved. The water flush after each injection is to minimize fouling of the well screen, sand pack and nearby formation.

Injection quantities will be determined after initial injection and tracer testing to measure and estimate injection flow rates, pressures, reagent travel times and distances, etc. This testing will occur in several selected wells.

The tracer testing will be conducted by monitoring ground water field parameters (specific conductivity, ORP, DO, etc.) in selected monitoring wells nearest to selected injection wells, using either 1) datalogging probes/pressure transducers, or 2) manually collected field measurements at regular (e.g., semi daily) intervals during injection, and for a day or two after if necessary. Observed breakthrough of the injected reagents at the monitoring wells (as evidenced by the field parameters) will provide information about injection radius of influence and travel times.

The mZVI injections will help establish and maintain anaerobic conditions, and will reduce some HVOCs directly (chemically). ZVI will also raise the pH slightly to offset the pH drop associated with donor metabolism. The optimal pH for dehalococcoides (Dhc) bacteria is between 6.2 and 7.5. The current pH of ground water throughout the plume is generally around 6 to 7.

The bioaugmentation culture contains Dhc bacteria that convert *cis*-DCE to vinyl chloride and ethene. These bacteria are already present at the Site, based on the occurrence of vinyl chloride and ethene in some wells (i.e. MW-2S, MW-6S). The bioaugmentation culture also contains other bacteria capable of fermenting the lactate and emulsified vegetable oil into a form of energy that can be used by the Dhc bacteria as well as bacteria that can convert PCE to *cis*-DCE.

The anaerobic water is to maintain appropriate conditions and ensure survival of a high percentage of the bioaugmentation culture during injection.

A higher percentage of emulsified oil may be injected into the source area wells. This is in part due to the higher contaminant concentrations that will likely require longer treatment, and because it is the most up gradient area, and will receive a continuous influx of electron acceptors (i.e., oxygen). Electron acceptors will decrease along the flow path after the injections.

Expected results. The in situ reductive dechlorination process results in removal of chlorine atoms within the solvent molecules one at a time, i.e., each PCE molecule is reduced to TCE, which is then reduced to cis-1,2-DCE, which is reduced to VC, which is reduced to ethene. Removal of chlorine atoms in PCE and its breakdown products may occur concurrently (although not necessarily at the same rates) such that short term increases in concentrations of TCE, 1,2-DCE and VC are likely (and typically observed), until the process is completed.

Creation of reducing conditions in the aquifer may also alter other geochemical conditions, particularly the potential release of arsenic from native soils into solution. This process is reversible and is expected to resolve after aquifer conditions return to pre-treatment redoximorphic states.

Total estimated cost of this portion of the remedial option is approximately \$200,000, and does not include cost already incurred to date on the interim action cleanups. Cost estimates for this and the other potential remedial alternatives are included in Appendix D.

7.1.3 Monitored Natural Attenuation

Monitored natural attenuation would be implemented some time after active treatment, depending on the level of HVOC decreases, possibly around 5-8 years. Estimated cost of this portion of the remedial option for each year is approximately \$40,000, with a total of \$300,000 for 7 years (costs for the first year of monitoring and reporting are included in the bioremediation option). Cost estimates for this and the other potential remedial alternatives are included in Appendix D.

7.1.4 Engineered and Institutional Controls

The Engineered and Institutional Controls remedial alternative could potentially be applied to the Site. The main components would be 1) vapor intrusion mitigation measures on all buildings located over HVOCs exceeding vapor screening criteria, 2) capping all impacted areas, and 3) an environmental covenant restricting access to soils and ground water. Costs for engineering controls are not provided, as they will be expended regardless of the cleanup remedy selected (roadways, buildings, vapor intrusion mitigation). Estimated cost of institutional controls is approximately \$5,000. Cost estimates for this and the other potential remedial alternatives are included in Appendix D.

7.1.5 Summary

Total cost for the combined alternative of excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls is around \$1.5M, as detailed in Appendix D.

7.2 PERMEABLE REACTIVE BARRIER/ZVI, MONITORED NATURAL ATTENUATION, ENGINEERING AND INSTITUTIONAL CONTROLS

The PRB would most likely be a trench excavated across (perpendicular to) the main axis of the plume, or east-west, located just downgradient of the source area, at the southern end of the former Case property. The trench would be around 35 feet deep and 75 feet long, and filled with granular zero valent iron.

Estimated cost of this option is approximately \$800k. Cost estimates for this and the other potential remedial alternatives are included in Appendix D.

Due to the long plume length (around 500 feet), achieving cleanup levels would take at least as long as the ground water travel time along the entire plume, and possibly more. Ground water velocities of 55 to 1,900 feet per year were estimated (Section 2.2.4) which equates to travel times along the entire plume of up to 9 years.

Engineering and institutional controls, as well as monitored natural attenuation, would still likely be required as ground water will not likely meet cleanup levels for some time after the PRB is installed. These components of the remedy would be carried out for this alternative as described above.

Total estimated cost of this option is approximately \$1M. Cost estimates for this and the other potential remedial alternatives are included in Appendix D.

7.3 IN SITU BIOREMEDIATION, ENGINEERING CONTROLS, AND INSTITUTIONAL CONTROLS

The individual components of this combined alternative are all described in the preceding sections. In-situ bioremediation, engineering controls, and institutional controls would be carried out as described above.

The in situ bioremediation methods would be similar to the interim actions already completed (see Section 5.0), with the following target areas for new biobarriers:

- Source area –additional injection using existing injection wells
- Upgradient of second row, shallow and intermediate zones
- Additional areas as determined by baseline monitoring closer in time to the planned cleanup action

Because much time will have elapsed between the last round of interim action injections (completed in April 2106) and the next round of injections to be implemented as part of the dCAP, final selection of new biobarriers or treatment areas (locations and depths) will be made after a round of new “baseline” ground water monitoring is conducted in advance of the final

cleanup actions. The data collected from this baseline monitoring would also inform any decision to perform more than just one round of bio treatment injections (“contingency plan”).

Shallow target zones will be around 8-20 feet bgs, intermediate at 20-35 feet bgs, and deep zones around 35-45 feet bgs.

New shallow, intermediate and deep zone monitoring wells will also be installed at the upgradient and downgradient ends of the plume (see Figure 14). Two new shallow wells will replace UCCMW26 & UCCMW27, which will be decommissioned when site development occurs in those areas.

Total estimated cost of this option is approximately \$500K, and does not include the costs of past cleanups conducted as interim actions. Cost estimates for this and the other potential remedial alternatives are included in Appendix D.

8. EVALUATION OF REMEDIATION ALTERNATIVES

This section evaluates the cleanup alternatives selected in the previous section in accordance with the selection of remedy requirements under MTCA (WAC 173-340 through 370). The proposed alternatives for the Site are:

- Excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls
- Permeable reactive barrier/ZVI, monitored natural attenuation, engineering and institutional controls
- In situ bioremediation, engineering controls, and institutional controls

8.1 MTCA THRESHOLD REQUIREMENTS

MTCA (WAC 173-340-360(2)(a)) specifies several threshold, or basic requirements, that cleanup actions must meet in order to be considered. The four threshold requirements specify that the cleanup action must:

- Protect human health and the environment
- Comply with cleanup standards
- Comply with applicable state and federal laws
- Provide for compliance monitoring

The following sections evaluate the alternatives against the threshold criteria. Table 4 summarizes the cleanup alternatives evaluation.

8.1.1 Protect Human Health and the Environment

The ‘protection of human health and environment’ criterion addresses whether a cleanup alternative will provide a minimum acceptable level of protection, i.e., a sufficiently low residual risk to human and ecological receptors. Alternatives are compared by relative degree of protection, which may include the second criterion ‘compliance with cleanup standards’ as well as short-term risks posed by remedial action (e.g., during construction and implementation of the cleanup action, such as mobilization of contaminants during construction or transport, or other ancillary safety risks during construction).

Of the alternative remedies, excavation and removal of all soil exceeding cleanup levels with engineering and institutional controls and monitored natural attenuation is the most protective, due to the removal of COCs from the site.

8.1.2 Comply with Cleanup Standards

Compliance with cleanup standards is defined by meeting the requirements of WAC 173-340-700 through 760, i.e., meeting calculated cleanup levels at the established point of compliance within a reasonable period of time. In addition to treatment or removal, MTCA includes provisions for meeting cleanup standards through containment.

Of the alternative remedies, excavation and removal of all soil exceeding cleanup levels with engineering and institutional controls and monitored natural attenuation is the most protective, due to the removal of COCs from the site.

8.1.3 Comply with Applicable State and Federal Laws

Compliance with State and Federal Laws includes legally applicable, ARARs. ARARs for this site are summarized in Table 3. All alternative remedies meet ARARs to the same relative degree.

8.1.4 Provide for compliance monitoring

Compliance monitoring requirements (specified in WAC 173-340-410) include the following elements:

- Protection monitoring to confirm that human health and the environment are adequately protected during implementation of an alternative
- Performance monitoring to confirm that cleanup standards or other performance standards are met
- Compliance monitoring to monitor the long-term effectiveness of the remedy after completion of the alternative

All alternative remedies provide protection, performance, and compliance monitoring.

8.2 MTCA OTHER REQUIREMENTS

Other requirements specified in MTCA include:

- **Use permanent solutions to the maximum extent practicable** – The requirement to use permanent solutions to the maximum extent practicable includes a preference hierarchy to evaluate alternatives and cost effectiveness. Cleanup technologies in order of decreasing preference include reuse / recycling, destruction, detoxification, and separation / volume reduction. Under MTCA these preferences may be weighed against costs and benefits using a “disproportionate cost analysis” (WAC 173-340-360(3)(e)).

- **Provide for a reasonable restoration time frame** – alternatives that can be implemented in less time (while equivalent in other respects) are preferred under MTCA
- **Consider public concerns** – MTCA specifies public notice and participation requirements for cleanups conducted by Ecology, conducted under an order or decree, where site-specific risk assessment is used to establish cleanup levels, or where cleanup would restrict future site use

8.3 EVALUATION OF ALTERNATIVES

The alternatives carried forward for evaluation are:

- Excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls
- Permeable reactive barrier/ZVI, monitored natural attenuation, engineering and institutional controls
- In situ bioremediation, engineering controls, and institutional controls

Table 4 compares each of the remedial alternatives to the minimum requirements for remedial actions listed in WAC 173-340-360(2). The alternatives are evaluated under all of the requirements, including determining whether the action uses permanent solutions to the maximum extent practicable.

This determination sometimes requires a Disproportionate Cost Analysis, which is a comparative evaluation of alternatives relative to each other under the ‘permanent to the maximum extent practicable’ criterion in WAC 173-340-360(3).

8.4 DISPROPORTIONATE COST ANALYSIS

A Disproportionate Cost Analysis (DCA) is presented herein which compares the selected remedy (in situ bioremediation, engineering controls and institutional controls) to the other remedies, including the most aggressive option of excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls.

The DCA per MTCA compares the relative costs and benefits of the cleanup alternatives that meet threshold requirements to allow selection of the alternative such that incremental cost is not disproportionate to the benefit. This analysis determines which of the alternatives are “permanent to the maximum extent practicable” and uses the following criteria, as specified in MTCA (WAC 173-340-360(2) & (3)).

Criteria	Relative weighting factor
* Overall protectiveness of human health and the environment	30%
* Permanent reduction of toxicity, mobility and volume	20%
* Long term effectiveness	20%
* Management of short-term risks	10%
* Technical and administrative implementability	10%
* Consideration of public concerns	10%
* Cost	compared against other criteria

The relative weighting of the factors shown above not specified in MTCA, but are assigned specifically for this Site, based on relative importance. Assignment of weighting factors is discussed below.

The DCA compares both quantitative and qualitative relative environmental benefits of each alternative against those provided by the most permanent alternative. Costs are disproportionate to benefits if the incremental costs of the alternative over that of a lower cost alternative exceed the incremental degree of benefits achieved by the alternative over that of the other lower cost alternative (WAC 173-340-360(e)(i)). Where the quantitative and qualitative benefits of two alternatives are equivalent, the less costly alternative is selected (WAC 173-340-360(e)(ii)(C)).

8.4.1 DCA Criteria

Protectiveness - Overall protectiveness includes the extent to which human health and the environment are protected, including the degree to which overall risks at a site are reduced, both on- and off-site, by the cleanup action and the time required to meet cleanup standards. This criterion also accounts for whether the cleanup action surpasses MTCA standards, and measures the improvement of overall environmental quality at the Site. This criterion was assigned a weighting of 30 percent, the highest of all the criteria, to reflect the fact that this is the fundamental requirement of MTCA.

Permanence - Permanence of a cleanup action is measured by the relative reduction in toxicity, mobility, or volume of hazardous substances, including the original contaminated media and any residuals generated by the cleanup, and also reflects the need for further action after cleanup. This criterion was assigned a weighting of 20 percent, the second highest weighting (along with long-term effectiveness), due to the priority given to permanent solutions by MTCA.

Long-term effectiveness - This criterion reflects the degree of certainty that a cleanup action will maintain compliance with cleanup standards over time, the magnitude of residual risk after cleanup, and the effectiveness of controls required to manage treatment residues or remaining wastes. MTCA contains a preference ranking for different types of technologies, as follows: reuse or recycling; destruction or detoxification; immobilization or solidification; on-site or off-

site disposal in an engineered, lined and monitored facility; on-site isolation or containment with attendant engineering controls; and institutional controls and monitoring. Cleanup alternatives often include a combination of technologies to accomplish remedial objectives. This ranking is used along with other site-specific factors in ranking long-term effectiveness. This criterion was assigned a weighting of 20 percent, the second highest weighting (along with permanence), due to the need for a cleanup action to remain protective of human health and the environment over time.

Management of short-term risks - This criterion measures relative risks to human health and the environment during construction and implementation of the cleanup action, and the effectiveness of measures that will be taken to manage such risks. Short-term risks during cleanup may include mobilization of contaminants during construction or transport, or other ancillary safety risks during construction. These risks are typically managed via monitoring, health and safety planning, spill control planning, best management practices, etc., during cleanup construction. This criterion was assigned a weighting of 10 percent, the lowest weighting, due to the short-term nature of the risk, and ability to address or correct. Management of short-term risks is also reflected in the cost analysis, as mitigating measures are added to the cleanup method. This criterion, along with implementability, is therefore less important in considering a cleanup action than protectiveness, permanence, and long-term effectiveness.

Technical and Administrative Implementability - This criterion evaluates the relative difficulty and uncertainty of implementing the project, and includes consideration of whether the alternative is technically possible, availability of necessary off-site facilities, services and materials, administrative and regulatory requirements, scheduling, size, complexity, monitoring requirements, access for construction operations and monitoring, and integration with existing facility operations and other current or potential remedial actions. This criterion was assigned a weighting of 10 percent, the lowest weighting. Selected cleanup technologies are already deemed to be implementable, and technical or administrative criteria are not as important as environmental concerns, protectiveness, permanence, and long-term effectiveness.

Consideration of public concerns - This criterion includes concerns from the community regarding the cleanup, and the degree to which they are addressed. Community includes individuals, community groups, local governments, tribes, federal and state agencies, or any other organization that may have an interest in or knowledge of the Site. This criterion was assigned a weighting of 10 percent, as many of the other criteria (e.g., overall protectiveness, permanence, long-term effectiveness, management of short-term risks) capture public concerns. This criterion is meant to capture specific public concerns not already addressed by the other criteria.

Cost - Analysis of cost includes all costs associated with implementing the alternative, including: design, construction, long-term monitoring, and institutional controls. Cost estimates for the cleanup alternatives should be comparable, to allow evaluation of relative costs and benefits of the different alternatives. Costs are evaluated against the cleanup benefits in order to assess cost-effectiveness and remedy practicability, therefore no weighting factor is applied.

8.4.2 Disproportionate Cost Analysis Scoring

Table 6 summarizes the disproportionate cost analysis scoring. A discussion of each alternative and the scoring factors assigned is presented below. For this analysis, a hypothetical “no action” alternative was added, as a baseline needed for the quantitative analysis. As noted in Section 9.1 and Table 4, all of the cleanup alternatives meet MTCA minimum requirements. The values assigned to each alternative reflect the degree to which one of the alternatives meets a particular criterion *compared to the other alternatives*.

For the following discussion, the three alternatives are referred to as A and B, as follows:

- A. Excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls
 - B. Permeable reactive barrier/ZVI, monitored natural attenuation, engineering and institutional controls
 - C. In situ bioremediation, engineering controls and institutional controls
- Overall protectiveness of human health and environment – Alternative A is the most protective, because all impacted soils would be removed from the Site, therefore was scored the highest (5); alternatives B and C were both scored lower, at 3, due to some level of active treatment.
 - Permanent reduction of toxicity, mobility and volume – Alternative A was scored the highest (5) with respect to the Site, even though moving the soil to a landfill does not reduce toxicity, mobility or volume; alternatives B and C were both scored lower, at 3 and 4, respectively, due to the presumed lower levels of treatment with respect to the Site (and in situ bio having higher reduction of toxicity, mobility and volume).
 - Long term effectiveness – Alternative A was scored the highest (5), due to the rapid removal of soils; alternative C was scored lower, at 4, due to the slower cleanup time frame, and alternative B was scored at 3, due to the presumed lower levels of treatment than in situ bioremediation.
 - Short term risks – Alternative A was scored the lowest (2), because soil excavation, utility work, and over-the-road hauling of thousands of tons of soil carries the most short term risk;

alternative B was scored higher, (3) due to some excavation required, and alternative C was ranked the highest, (4) due to the least amount of site activity required.

- Implementability – Alternative A was scored the lowest (2), because of the challenges associated with soil excavation in an urban setting; alternative B was scored higher, (3) due to some excavation required, and alternative C was ranked the highest, (4) due to the least amount of site activity required.
- Community acceptance – Alternative A was scored the lowest (2), because of the challenges associated with soil excavation in an urban setting; alternatives A and B were ranked similarly (3) for Community Acceptance, due to the relatively similar impacts to the community.

No Action

A “no action” alternative is presented solely for mathematical purposes, so the lowest ranked alternative has something to be compared against, i.e., to calculate the incremental cost and benefit. The “no action” alternative is not under consideration as an actual cleanup alternative.

- Overall protectiveness of human health and environment – The no action alternative would not be protective, and was scored 0.
- Permanent reduction of toxicity, mobility and volume – The no action alternative would not reduce mobility, toxicity or volume of contaminants, and was therefore scored 0.
- Long term effectiveness – The no action alternative would not be effective long term, and was assigned a score of 0.
- Short term risks – The no action alternative has little or no short term risk, and was assigned a score of 5.
- Implementability – The no action alternative is implementable, and was given a score of 5.
- Community acceptance – The no action alternative was given a score of 0 on the basis that there would be community concerns with taking no remedial action.

8.4.3 Disproportionate Cost Analysis Summary

The net benefit of the alternatives is determined by combining the criteria scores with the relative weighting factors assigned to the criteria. The net benefit, or overall non-cost scores, are shown in Table 7. The cleanup alternatives ranked by benefit as follows:

- Alternative A 4.1
- Alternative B 3.0
- Alternative C 3.6
- No Action 1

Table 6 summarizes estimated costs, with additional detail provided in Appendix D. Dividing net benefit by total cost gives the benefit-to-cost ratio, or cost effectiveness. Figure 16 shows a graph of cost to benefit. Benefit-to-cost ratios increased from Alternative B to C to A.

As stated in Section 9.4, MTCA considers costs to be disproportionate to benefits on the basis of incremental costs and incremental benefits. For this analysis, incremental benefit (the difference in net benefit from the next lowest scored alternative) is divided by the incremental cost (the difference in cost from the next lowest cost alternative).

For this analysis, a “no action” alternative was scored, so that the lower cost alternative did not have zero values for incremental cost or benefit. The “no action” alternative was assigned a net benefit of 1, and a cost of zero.

Incremental cost effectiveness values are shown in Table 6 and Figure 17. The incremental benefit-to-cost ratio of Alternative C is the highest. The incremental benefit-to-cost ratio from Alternative A to B was negative, because the net benefit of Alternative C is lower than Alternative B, although the cost is higher. These ratios depend on the order in which the alternatives are presented; typically they are listed in order of descending cost or increasing benefit.

8.4.4 Sensitivity Analysis

Due to the large cost differential, the analysis is not sensitive to variations in scoring of the alternatives. For example, if Alternatives A and B were scored 5 for each criteria, the incremental cost effectiveness of Alternative C would still exceed that of Alternatives A and B by over 2 times.

9. RECOMMENDED REMEDIAL ALTERNATIVE

This section presents proposed remedial actions to be conducted at the Site.

9.1 DESCRIPTION OF RECOMMENDED REMEDIAL ALTERNATIVE

Based on the results of the remedial investigation and feasibility study conducted under MTCA and the application of the selection of remedy criteria, the preferred cleanup alternative at the Site (developed in accordance with WAC 173-340-350 through 173-340-390) includes:

- In-situ bioremediation (two rounds already conducted as interim actions, with one or more additional rounds planned)
- Engineering controls (vapor intrusion mitigation)
- Institutional controls (environmental covenants)

9.1.1 In-situ bioremediation

In situ bioremediation is selected as the primary cleanup method component because it has been proven successful in Interim Actions at the Site. To date, 9 wells have been remediated to below cleanup levels for PCE (MW-1, UCCMW-4, UCCMW-18, UCCMW-19, UCCMW-20, UCCMW-5, UCCMW-9, UCCMW-26, UCCMW-27), and 5 wells have been remediated to below cleanup levels for all HVOCs (UCCMW-4, UCCMW-20, UCCMW-5, UCCMW-9, UCCMW-27), and the plume is actively shrinking. In addition, redox parameters and other indicators (e.g., TOC, methane, ethene, etc.) all indicate active biological activity and degradation of PCE in almost all zones/areas treated, with a few exceptions.

In situ bioremediation processes treat soil and groundwater using microorganisms to degrade organic contaminants. The microorganisms break down contaminants by using them as an energy source or cometabolizing them with an energy source. The primary COCs at the Site (PCE, TCE, DCE, and VC) respond most favorably to anaerobic bioremediation. To stimulate and enhance microbial activity, microorganisms (bioaugmentation) or amendments (biostimulation), such as organic substrates, other electron donors/acceptors, nutrients, or other compounds that affect treatment can be added. Biostimulation can be used where the bacteria necessary to degrade the contaminants are present but conditions do not favor their growth (e.g., anaerobic bacteria in an aerobic aquifer, aerobic bacteria in an anaerobic aquifer, lack of appropriate nutrients or electron donors/acceptors). Bioaugmentation can be used when the bacteria necessary to degrade the contaminants do not occur naturally at a site or occur at too low of a population to be effective.

Bioremediation of a chlorinated solvent like PCE at the Site involves addition of an energy source (electron donor, in this case emulsified vegetable oil) and/or addition of a microbial culture. This process requires that ground water must be very anaerobic and an electron donor be

April 12, 2018

HWA Project No. 2007-098

available for the microorganisms to carry out the process. Addition of electron donor helps make ground water anaerobic if it is not already. Most of the HVOC plume area is anaerobic from past bioremediation injections.

The process also requires the presence of certain specific types of bacteria to carry it to completion. Specifically, it requires bacteria (*Dehalococcoides* or Dhc) that convert vinyl chloride to the harmless end product ethene. These bacteria are often not present at all or not present in sufficient numbers, especially in shallow aquifers that are not anaerobic.

At this site bioremediation has been and will continue to be implemented in the form of injected biobarriers, at several locations along the plume length. The location of infrastructure, utilities and monitoring wells can impact the locations.

The most useful donor for installing biobarriers is emulsified vegetable oil. Emulsified oil essentially behaves like a dilute milk solution during injection, allowing the normally immiscible oil to be transported with water. Because of this behavior, implementation is possible via either wells or direct push injection, and coverage can be very complete. Within two months after injection, the emulsion “breaks” due to bacterial action, and the oil droplets adhere to the soil particles, leaving a barrier of electron donor in place. The oil droplets then dissolve slowly into ground water at a rate that is compatible with maintaining anaerobic conditions and supplying electrons to the microorganisms.

The in situ bioremediation methods would be similar to the interim actions already completed (see Section 5.0), with the following preliminary target areas for new biobarriers:

- Source area – additional injection at six existing shallow injection wells
- Downgradient part of plume (upgradient of prior second injection row) intermediate and deep zones
- Additional areas as determined based on baseline monitoring closer in time to the planned cleanup action per the dCAP (e.g., area around well BB-2 if needed)

Shallow target zones will be around 8-20 feet bgs, intermediate at 20-35 feet bgs, and deep zones around 35-45 feet bgs. Figure 14 shows the location of past treatment areas (biobarriers) completed as interim actions, and planned future biobarriers. Because much time will have elapsed after the interim action round of injections completed in April 2016, and the new planned round under the dCAP, final selection of new biobarriers or treatment areas (locations and depths) will be made after an additional round of new “baseline” ground water monitoring is conducted in advance of the final cleanup action. The data collected from this baseline monitoring would also inform any decision to perform more than just one round of bio treatment injections (“contingency plan”).

Injection protocol for each location will include the following elements:

- Mix hydrant water with granular zero-valent iron (ZVI) for approximately 24 hours to remove chlorine and create anoxic water (Oxidation/reduction potential [ORP] < - 100

mV, dissolved oxygen [DO] < 0.5 mg/L) in a tank large enough for the next day’s injection volume.

- Inject small volume of anaerobic water (50 -100 gals) with oil
- Inject bioaugmentation culture
- Inject emulsified oil with micro ZVI in anaerobic water
- Short Water flush, no donor

The first step must be repeated each day when there will be an injection the following day. The final two steps will be repeated each day until the desired volume is achieved. The water flush after each injection is to minimize fouling of the well screen, sand pack and nearby formation.

Injection quantities will be determined based on past injection and tracer testing to measure and estimate injection flow rates, pressures, reagent travel times and distances, etc.

Contingency plan

Efficacy of the bioremediation injections (“cleanup”) will be evaluated after performance monitoring at the end of the first 2.5 years (10 quarters) following the new round of bioremediation cleanup actions that will implemented per the dCAP. If any areas are not responding to treatment (HVOCs not degrading and/or bioremediation indicator analytes show unfavorable subsurface conditions), a contingency plan for additional bioremediation injections may be recommended.

9.1.2 Ground Water Monitoring

Performance monitoring following the in-situ bioremediation will include sampling and analysis of ground water at existing and new monitoring wells for HVOCs and bioremediation indicator parameters. Two new shallow monitoring wells will be installed at the upgradient end of the plume; and new shallow, intermediate and deep zone monitoring wells will be installed at the downgradient end of the plume (see Figure 14). Existing shallow wells UCCMW-26 and UCCMW-27 will be decommissioned when development occurs in those areas.

Efficacy of the cleanup will be evaluated via existing and new monitoring wells at quarterly and semi-annual monitoring events. Existing and proposed new wells to be monitored are shown on Figure 14, and include:

Quarterly	Semiannually*
SHALLOW	
MW-1	BI-3
UCCMW-7	BB-3
UCCMW-8	UCCMW-5
UCCMW-10	UCCMW-16
UCCMW-17	UCCMW-18

UCCMW-19	UCCMW-24
UCCMW-20	UCCMW-32****
UCCMW-21	UCCMW-33****
UCCMW-25	
BB-2	
INJ-2 (injection well)	
UCCMW-26	
UCCMW-27	
**UCCMW-28 S	
**UCCMW-29 S	
INTERMEDIATE	
***UCCMW-28 I	
***UCCMW-29 I	
***UCCMW-30 I	
***UCCMW-31 I	
DEEP	
***UCCMW-28 D	UCCMW-4
***UCCMW-29 D	
***UCCMW-30 D	
***UCCMW-31 D	

* In addition to listed quarterly wells. Semiannual wells may be monitored more frequently as needed.

**New shallow monitoring wells to be installed to replace UCCMW-26 and UCCMW-27 which will be decommissioned prior to new construction in those locations.

*** New intermediate and deep wells

**** New shallow wells

If a well is below cleanup level for a sufficient period of time (> 1 year), monitoring may be discontinued until all wells reach cleanup levels, at which time monitoring of those well(s) will be resumed for confirmation monitoring.

All ground water samples will be analyzed for HVOCs and field parameters, including DO, ORP and pH. Selected samples may be analyzed for bioremediation indicator parameters, including:

- Total organic carbon (TOC)
- Methane/ethene/ethane
- Nitrate
- Sulfate
- Soluble ferrous iron

April 12, 2018

HWA Project No. 2007-098

- Dhc/vinyl chloride reductase (VcrA) – is this an enzyme indicative of vinyl chloride reduction activity by Dhc bacteria
- Sodium (Na⁺)

HVOCs and ethene/ethane will be monitored to show that the parent VOC (PCE) is being transformed, at least in part to harmless ethene or ethane. Field parameters, nitrate, sulfate, ferrous iron and methane will be monitored to show that the appropriate conditions have been achieved for degradation of chlorinated ethenes and for survival of the bioaugmentation culture.

Initially, TOC will serve as an indicator of the presence of the injected fluid. Each 1% of emulsified oil contains approximately 400 mg/L of lactate and 9,600 mg/l of emulsified oil. The lactate will inject/migrate like water initially until bacteria begin to metabolize it (days to weeks). Emulsified oil will also migrate essentially with water although a portion (larger droplets) will be filtered out in the smaller pore throats of the aquifer. For example, if 1% oil were injected, the detection of 2-300 mg/L of TOC would indicate that lactate (slightly diluted) had reached that location. The detection of 6,000 mg/L of TOC would indicate emulsified oil had reached that location. Additionally, the Na⁺ concentration of the injected oil (due to the presence of sodium lactate, sodium bicarbonate) can be used as a tracer if distinct enough from background. Na⁺ will only be analyzed in hydrant water and wells immediately down gradient of injection points. Monitoring of Na⁺ will cease when it arrives in a well.

Within 2-3 months, the emulsion will break due to bacterial degradation of the emulsifiers and the oil droplets will adhere to the soil. This residual oil will slowly dissolve into ground water and provide a long-term source of donor for the degradation process. TOC will be monitored long-term as an indicator of the longevity of the emulsified oil. TOC concentrations of 20-100 mg/L indicate the slow dissolution process and that oil is still present.

9.1.3 Ground Water Monitoring, Cleanup Schedule and Contingency plan

Performance monitoring will be conducted initially for 2.5 years (10 quarters) after the new round of bioremediation cleanup action that will be implemented per the dCAP, at which time the efficacy of the cleanup will be evaluated. If any areas are not responding to treatment (HVOCs not degrading and/or bioremediation indicator analytes show unfavorable subsurface conditions), a contingency plan for additional bioremediation injections may be recommended. At that time, monitoring parameters (wells, analytes, time intervals, etc.) may also be modified as needed, in consultation with Ecology.

Monitoring will continue until all wells reach cleanup levels for at least one year. The restoration timeframe is estimated up to 8 years. Criteria for terminating active biotreatment (i.e., no further injections) will include continued reduction of HVOC mass, shrinking of the plume, and all wells with HVOCs exceeding cleanup levels displaying favorable redox and bioremediation indicators. Favorable redox and bioremediation indicators are described in Section 4.2.1 and include oxidation-reduction potential and dissolved oxygen showing anoxic conditions, presence

of methane and ethene, and the favorable progression of generation and degradation of PCE daughter products.

9.1.3 Engineering controls

If buildings are planned over any areas where vapor intrusion screening or testing at that time indicates a vapor intrusion risk, vapor intrusion mitigation will be conducted. Most of the plume is currently under roadways, and the source area will be under an open-air public plaza park feature. Two future hotel buildings are planned at the upgradient end of the plume, upgradient of the source area.

Portions of both buildings overlie areas which contain HVOCs in ground water above VI screening criteria (see Section 4.4). These buildings will be underlain by a Stego Wrap brand vapor barrier. The vapor barrier will be a 20 mil virgin polyolefin resin, multi-layer plastic extrusion-blown film membrane. This product meets or exceeds Class A vapor retarding per ASTM E1745, which is the highest level of vapor retardation under this ASTM standard. All seams will be sealed, and slab penetrations (utilities, etc.) booted and sealed with ASTM E1643-compliant methods and materials (i.e., Stego Tape, Stego Mastic, Stego Crete Claw® Tape and StegoTack® Tape). The building area overlying the low HVOC ground water concentrations will be an open-air parking garage, therefore the vapor barrier system is extremely conservative.

9.1.4 Institutional controls

Institutional control areas will be determined after several years of monitoring, and will be selected based on monitoring results. Institutional controls will take the form of environmental covenants (deed restrictions), which will document the remedial action in Ecology and County property records, and include provisions which 1) prohibit activities that may impact the remedial action, create new exposure pathways, or create access to, or release of remaining contaminants, 2) ensure the provisions are met by property lessees, 3) ensure conveyance of the covenant with the land, 4) require notification of property transactions, and 5) allow site access to the regulatory agency.

9.2 RATIONALE FOR SELECTING PROPOSED ALTERNATIVE

The proposed alternative was selected in accordance with remedy selection requirements under MTCA, and meet all threshold and other requirements specified in WAC 173-340-360. This rationale is detailed in Section 9 above.

9.3 OTHER ALTERNATIVES EVALUATED

A range of other cleanup alternatives was evaluated, as detailed in Section 6.0, and includes:

- Excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls

April 12, 2018

HWA Project No. 2007-098

- Permeable reactive barrier/ZVI, monitored natural attenuation, engineering and institutional controls

9.4 CLEANUP STANDARDS

Determination of cleanup standards is detailed in Section 5.2, and included the following process, per MTCA:

- Evaluate beneficial use of land, ground water, and surface water
- Develop conceptual site model (i.e., contaminant source, affected media, exposure pathways, and receptors)
- Select COCs
- Select ARARs
- Choose cleanup levels
- Identify points of compliance

The cleanup standards are then based on the calculated cleanup levels measured at the points of compliance. Cleanup levels selected for the Site are based on MTCA Method A or B (where no A value exists). Points of compliance are as follows:

Soil

- Standard point of compliance (throughout the Site) based on protection of ground water
- From the ground surface to 15 feet below ground surface based on direct contact exposure

Ground water

- For this Site, the standard ground water point of compliance is proposed, i.e., ground water throughout the Site. All wells listed in the monitoring plan in Section 9.1 will be used to define the Site ground water point of compliance.

Another component of the cleanup standard is a reasonable restoration timeframe. Per Section 7, the restoration timeframe is estimated up to 8 years.

9.5 SCHEDULE FOR IMPLEMENTATION

Schedule for implementation is detailed in the Cleanup Action Plan, and is anticipated to be in 2018. The relative order of cleanup elements is as follows:

- Baseline round of monitoring to delineate extent of treatment areas
- In-situ bioremediation injections
- Performance monitoring, 2.5 years initially, then until cleanup standards are met (anticipated <8 years)

April 12, 2018

HWA Project No. 2007-098

- Supplemental injections as needed, if contingency plan is activated based on sampling results
- Engineering controls – depending on building construction schedules
- Institutional controls
- Confirmation Monitoring – one year after cleanup standards are met Site wide

9.6 APPLICABLE STATE AND FEDERAL LAWS

All applicable state and federal laws, if any, for the proposed cleanup action will be followed. Regulatory compliance will be addressed during the permitting phase of the project, and may include grading, storm water, and other permitting issues.

9.7 COMPLIANCE WITH THRESHOLD AND OTHER MTCA REQUIREMENTS

As stated in Section 8, the proposed cleanup action complies with threshold and other MTCA requirements specified in WAC 173-340-360.

10. SUMMARY & CONCLUSIONS

The Ultra Custom Cleaner Site occupies several parcels of land, including the source parcel owned by City of Bothell, where a former dry cleaners caused a release of PCE in to the soil and ground water some time prior to 2000. RI activities have defined the nature and extent of soil and ground water impacts, which include PCE and its breakdown products TCE, DCE, and vinyl chloride.

Site cleanup levels for soil and ground water are selected as MTCA Method A or B for COCs with no established Method A value. Points of compliance are as follows:

- Soil
 - Standard point of compliance (throughout the Site) based on protection of ground water
 - From the ground surface to 15 feet below ground surface based on direct contact exposure
- Ground water
 - The standard ground water point of compliance is proposed, i.e., ground water throughout the Site

Based on the results of the remedial investigation and feasibility study conducted under MTCA and the application of the selection of remedy criteria, the preferred cleanup alternative at the Site (developed in accordance with WAC 173-340-350 through 173-340-390) includes:

- In-situ bioremediation additional injections
- Engineering controls
- Institutional controls

11. REFERENCES

- CDM, 2009. *Draft Phase II Environmental Site Assessment, City of Bothell Crossroads Redevelopment Project, Bothell, Washington, May 2009*
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April 12, 2018
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TABLE 1A
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: Farallon Consulting, 2002
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring		MW1-2.5-4	MW2-5.5-7	MW3-4.5-6	SB-1-4	SB-1-8	SB-2-4	SB-2-8	SB-3-4	SB-3-8	SB-4-4	SB-4-8	SB5-0.33-3	SB6-2-3	SB7-05-1.5	SS-2	MTCA A/B
Sample interval, ft bgs		2.5-4	5.5-7	4.5-6	4-5	8-9	4-5	8-9	4-5	8-9	4-5	8-9	0.33-3	2-3	0.5-1.5	Catch Basin Sediment	
Petroleum Hydrocarbons	Gasoline Range		1,800														100/30*
	Diesel Range																2000
	Oil Range																2000
VOCs***	Tetrachloroethene	0.0022	0.015	0.005	0.0013	<0.0012	0.0012	<0.0011	0.0018	<0.0011	0.0019	<0.0023	0.0061	0.0013	0.0097	0.0019	0.05
	Trichloroethene	<0.0011	0.0019	<0.0013	<0.0011	<0.0012	<0.0011	<0.0011	<0.0013	<0.0011	<0.0011	<0.0012	<0.0011	<0.0011	<0.0011	0.012	0.03
	(cis) 1,2-Dichloroethene	<0.0011	<0.0011	<0.0013	<0.0011	<0.0012	<0.0011	<0.0011	<0.0013	<0.0011	<0.0011	<0.0012	<0.0011	<0.0011	<0.0011	0.0026	160 (B)
	Methylene Chloride	<0.0057	0.029****	<0.0063	<0.0054	0.0062****	<0.0054	<0.0057	<0.0063	<0.0055	<0.0054	0.0079****	<0.0056	<0.0053	<0.0054	<0.0060	0.02
	1,2-Dichlorobenzene	<0.0011	0.0012	<0.0013	<0.0011	<0.0012	<0.0011	<0.0011	<0.0013	<0.0011	<0.0011	<0.0012	<0.0011	<0.0011	<0.0011	<0.0012	7200 (B)

TABLE 1B
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: Environmental Partners Inc., 2004
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring		B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-13	B-14	B-15	B-16	MTCA A/B
Sample interval, ft bgs		8	8	8	8	8	8	8	8	8	9.5	9.5	9.5	9.5	
VOCs***	Tetrachloroethene	0.020	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.05
	Trichloroethene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.03
	(cis) 1,2-Dichloroethene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	160 (B)
	Methylene Chloride	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.02
	1,2-Dichlorobenzene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	7200 (B)

* Note: These borings are all located on the Case property (see Figure 4). Borings with similar designations (B-1, B-2, etc.) were also drilled by CDM in 2009, and are located within rights-of-way along Bothell Way NE and SR522 (see Figure 3).

TABLE 1C
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: CDM, 2009
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring	B1	B2	B3	B4	B5	B6	B7	B8	B10	B11	B12	B13	B15	B16	B17	B18	MTCA A/B	
Sample interval, ft bgs	6	7	9	6				7	6	6	5	6	10	13	44	7		
Petroleum Hydrocarbons	Gasoline Range	<30	720			<25	<24					<24					100/30*	
	Diesel Range	<75	<46			<62	<61					<61					2000	
	Oil Range	<150	2400			<120	<120					<120					2000	
VOCs	Benzene		6														0.03	
	Toluene		1.1														7	
	Ethylbenzene		12														6	
	Xylenes		11.51														9	
	Tetrachloroethene	0.0054	<0.0016	<0.19	<0.0012	<0.0011	<0.0011	0.0012	0.0017	0.016	0.0030	0.0011	<0.0011	0.027	0.0041	<0.0011	<0.0013	0.05
	Trichloroethene	<0.00099	<0.0016	<0.19	<0.0012	0.0086	<0.0011	<0.0010	<0.0010	<0.00097	<0.0011	<0.0090	<0.0011	<0.0017	<0.0010	<0.0011	<0.0013	0.03
	(cis) 1,2-Dichloroethene	<0.00099	<0.0016	<0.19	<0.0012	0.034	0.0027	<0.0010	<0.0010	<0.00097	<0.0011	0.0013	<0.0011	<0.0017	<0.0010	<0.0011	<0.0013	160 (B)
	Vinyl Chloride	<0.00099	<0.0016	<0.19	<0.0012	<0.0011	<0.0011	<0.0010	<0.0010	<0.00097	<0.0011	<0.00090	<0.0011	<0.0017	<0.0010	<0.0011	<0.0013	240 (B)
	Methylene Chloride	<0.0049	<0.0079	<0.94	<0.0060	<0.0057	<0.0055	<0.0052	<0.0050	<0.0048	<0.0054	<0.0045	<0.0055	<0.0085	<0.0051	<0.0057	<0.0065	0.02

* Note: These borings are all located within rights-of-way along Bothell Way NE and SR522 (see Figure 3). Borings with similar designations (B-1, B-2, etc.) were also drilled by Environmental Partners in 2004, and are located on the Case property.

TABLE 1D
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: HWA GeoSciences, 2008
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring	BB-2	BB-3	MTCA A/B	
Sample interval, ft bgs	7.5	10		
Petroleum Hydrocarbons	Gasoline Range	<7.1	<6.6	100/30*
	Diesel Range	<31	<31	2000
	Lube Oil Range	<65	<61	2000
VOCs (8260B) (mg/kg)	Tetrachloroethene	<0.0011	0.0055	0.05
	Trichloroethene	<0.0011	<0.0011	0.03
	(cis) 1,2-Dichloroethene	<0.0011	<0.0011	160 (B)
	Acetone****	0.029	<0.0053	72,000(B)
	2-Butanone (MEK)	<0.0056	<0.0053	48,000(B)

TABLE 1E
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: Parametrix, 2010
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring		SB01	SB02	SB03	SB04	SB05	MTCA A/B
Sample interval, ft bgs		14	16	15	10	17	
Petroleum Hydrocarbons	Gasoline Range	<5.5	<5.9	<7.3	<5.4		100/30*
	Diesel Range	<27	<29		<27		2000
	Oil Range	<5.5	<5.9	<7.3	<5.4		2000
VOCs***	Tetrachloroethene				<0.034	<0.0011	0.05
	Trichloroethene				<0.034	<0.0011	0.03
	(cis) 1,2- Dichloroethene				<0.034	<0.0011	160 (B)
	Vinyl Chloride				<0.034	<0.0011	240 (B)
	Methylene Chloride				<0.17	<0.0057	0.02
PAHs***	Fluoranthene				0.0078		3200 (B)
	Pyrene				0.0075		2400 (B)
	Chrysene				0.0099		0.1
	Benzo[b]fluoranthene				0.01		
	Benzo[g,h,i]perylene				0.0078		
RCRA Metals***	Arsenic				<11		20
	Barium						16000 (B)
	Cadmium				<0.54		2
	Chromium				26		19/2000**
	Lead				140		250
	Mercury				<0.27		2
	Silver						400

TABLE 1F
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: HWA, 2011b
(all results in milligrams per kilogram (mg/Kg) except as noted)

Location	Sample	Methylene Chloride	Tetrachloroethene
New sanitary sewer line (borings in native or fill sols)	CH-B1-3	<0.0069	0.18
	CH-B1-7	<0.0056	0.0041
	CH-B2-2	<0.0054	0.017
	CH-B2-4	0.0091****	0.016
	CH-B2-6	<0.0056	<0.0011
	CH-B3-3	<0.0057	<0.0011
	CH-B3-6	<0.0056	<0.0011
	CH-B3-8	<0.0054	<0.0011
	CH-B4-3	<0.0065	<0.0013
	CH-B4-6	<0.0060	<0.0012
	CH-B4-8	<0.0061	<0.0012
New storm drain line (borings in native or fill sols)	CH-B5-4	<0.0047	<0.00094
	CH-B5-8	<0.0059	<0.0012
	CH-B5-13	0.0067****	<0.0011
	CH-B6-4	<0.0062	<0.0013
	CH-B6-8	<0.0053	<0.0010
	CH-B7-4	<0.0064	<0.0013
	CH-B7-8	<0.0063	<0.0013
Proposed cutoff wall (not built)	CH-B7-13	<0.0061	<0.0012
	CH-B9-1.5	<0.0058	<0.0012
	CH-B9-7	<0.0059	<0.0012
	CH-B10-4	<0.0062	<0.0012
MTCA-A	CH-B10-8	<0.0057	<0.0011
		0.02	0.05

TABLE 1G
ULTRA CUSTOM CARE CLEANERS SITE SEDIMENT & SOIL ANALYTICAL DATA
Source: HWA, 2011b (see Figure 10)
(all results in milligrams per kilogram (mg/Kg) except as noted)

Location	Sample	(cis) 1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Exterior Storm Drains (catch basin sediment)	SD-2-S	0.0015	0.0078	0.0039
	SD-3-S	<0.0014	<0.0014	<0.0014
Interior Trench Drain (drain sediment)	SS-SED	0.075	0.034	0.75
Hand Auger Boring (native or fill soil)	HH-1-4	<0.0013	<0.0013	0.0019
Soil between two floor slabs (fill soil)	SB-N	<0.0011	<0.0011	0.0098
	SB-S	<0.0011	<0.0011	0.0092
MTCA A/B (soil)		160 (B)	0.03	0.05

TABLE 1H
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: HWA, 2012
(all results in milligrams per kilogram (mg/Kg) except as noted)

Location	Sample	Acetone	2-Butanone	Vinyl Chloride	(cis) 1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	Benzene	sec-Butylbenzene	Toluene	p-Isopropyltoluene	Chloroform	Carbon Disulfide
New storm drain line (borings in native or fill soils)	PSD-B1-2	<0.011	<0.0056	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0056	<0.0011	<0.0011	<0.0011
	PSD-B1-5	0.018	<0.0069	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0069	<0.0014	<0.0014	<0.0014
	PSD-B1-8	0.026	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	<0.0049	<0.00097	<0.00097	<0.00097
	PSD-B2-2	<0.013	<0.0065	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0065	<0.0013	<0.0013	<0.0013
	PSD-B2-5	<0.012	<0.0062	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0062	<0.0012	<0.0012	<0.0012
	PSD-B2-8	0.077	0.014	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0055	<0.0011	<0.0011	<0.0011
	PSD-B3-3	<0.011	<0.0054	<0.0011	<0.0011	0.0063	0.15	<0.0011	<0.0011	<0.0054	<0.0011	<0.0011	<0.0011
	PSD-B3-6	<0.011	<0.0054	<0.0011	<0.0011	0.013	0.12	<0.0011	<0.0011	<0.0054	<0.0011	<0.0011	<0.0011
	PSD-B4-2	0.77	0.15	<0.0015	0.0029	0.0024	<0.0015	<0.0015	<0.11	<0.0074	<0.11	<0.0015	<0.0015
	PSD-B4-4	0.32	0.047	<0.0011	0.0013	<0.0011	<0.0011	<0.0011	<0.075	<0.0053	<0.075	<0.0011	<0.0011
	PSD-B5-3	0.20	0.047	<0.0011	<0.0011	<0.0011	<0.0011	0.0014	0.0038	<0.0057	<0.0011	<0.0011	0.0011
	PSD-B5-6	<0.0099	<0.0049	<0.00099	<0.00099	<0.00099	0.0068	<0.00099	<0.00099	<0.0049	<0.00099	<0.00099	<0.00099
	PSD-B6-3	<0.012	<0.0059	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0059	<0.0012	<0.0012	<0.0012
PSD-B6-6	<0.012	<0.0062	<0.0012	<0.0012	<0.0012	0.0026	<0.0012	<0.0012	<0.0062	<0.0012	<0.0012	<0.0012	
Existing storm drain (samples within existing utility trench)	ESD-B1-7	<0.011	<0.0056	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0056	<0.0011	<0.0011	<0.0011
	ESD-B2-7	<0.0012	<0.0060	<0.0012	<0.0012	<0.0012	0.0084	<0.0012	<0.0012	<0.0060	<0.0012	<0.0012	<0.0012
Existing sanitary sewer (samples within existing utility trench)	ESS-B1-5	0.066	0.0064	<0.0012	<0.0012	<0.0012	0.0017	<0.0012	<0.0012	<0.0061	<0.0012	<0.0012	<0.0012
	ESS-B2-6	0.40	0.077	0.0024	0.0041	<0.0014	<0.0014	<0.0014	<0.0014	<0.0069	<0.0014	<0.0014	<0.0014
	CB6-5	1.2	0.13	<0.0031	<0.0031	<0.0031	0.014	<0.0031	<0.0031	0.36	0.37	0.0033	<0.0031
MTCA-A/B		72,000(B)	48,000(B)	240 (B)	160 (B)	0.03	0.05	0.03		7		800 (B)	8000(B)

TABLE 1I
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: CDM, 2013
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring		B30 (in native or fill soils)	B31 (within existing utility trench)	B32 (within existing utility trench)	B33 (in native or fill soils)	B34 (in native or fill soils)	B36 (within existing utility trench)	B37 (in native or fill soils)	MTCA A/B
Sample interval, ft bgs		8	9	2.5	7	7	3	14	
Petroleum Hydrocarbons	Gasoline Range	110							100/30*
VOCs	Tetrachloroethene	<0.0013	<0.0011	<0.0011	<0.0015	0.0015	0.0013	<0.0012	0.05

TABLE 1J
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: CDM, 2011
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring		RC-B20-6	RC-B29-6	MTCA A/B
Sample interval, ft bgs		6	6	
Petroleum Hydrocarbons	Gasoline Range	<71	<42	100/30*
	Diesel Range	780	200	2000
	Oil Range	530	1900	2000
VOCs	Benzene		0.0016	0.03
	Toluene		<0.0056	7
	Ethylbenzene		<0.0011	6
	Xylenes		0.0122	9
	Tetrachloroethene		<0.0011	0.05
	Trichloroethene		<0.0011	0.03
	(cis) 1,2-Dichloroethene		<0.0011	160 (B)
	Vinyl Chloride		<0.0011	240 (B)
Methylene Chloride		0.12****	0.02	

TABLE 1K
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: HWA GeoSciences, 2009
(all results in milligrams per kilogram (mg/Kg) except as noted)

Boring	GM-1-5	GM-2-6	GM-3-10	GM-4-5	GM-5-7	GM-6-6	BB-1-10	BKGD	MTCA Method A/B Cleanup Level
Location	Northwest property line, assumed upgradient of site, potential off-site impacts (dry cleaner)	North-central property, approximate location of former 'grease rack'	Northeast property, assumed upgradient of site, potential off-site impacts (dry cleaner)	East-central property, assumed downgradient of former 'grease rack'	Southwest property, assumed downgradient of former service station, potential off-site impacts (dry cleaner)	South property, assumed downgradient of former service station/dispensers	Southeast property, assumed downgradient of site/former service station/dispensers		
Sample interval, ft bgs	6-8	6-8	10-12	5-7	7-8	6-8	10-11.5		
Petroleum Hydrocarbons	Diesel	<28	<28	<29	<28	<28	<29		2000
	Oil	220	470	85	740	940	140		2000
	Gasoline	<6.0	<3.6	<6.1	<5.1	<4.6	<5.7		100/30*
VOCs	Benzene	<0.001	<0.20	<0.001	<0.20	<0.00096	<0.00089	<0.0011	0.03
	Toluene	<0.0052	<0.036	<0.0052	<0.051	<0.0048	<0.0045	<0.0056	7
	Ethylbenzene	<0.001	<0.036	<0.001	<0.051	<0.00096	<0.00089	<0.0011	6
	Xylenes	<0.001	<0.036	<0.001	<0.051	<0.00096	<0.00089	<0.0011	9
	Acetone	<0.0052		<0.0052		0.0064	0.0047	0.026	72000 (B)
	2-Butanone	<0.001		<0.001		<0.00096	<0.00089	0.0067	NE
	Tetrachloroethene	<0.001		0.0099		<0.00096	0.0023	<0.0011	0.05
RCRA Metals	Barium		51		63	61	62	32	16000 (B)
	Chromium		27		27	26	24	48	19/2000**
	Lead		28		100	59	49	<5.9	24

TABLE 1L
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: HWA GeoSciences, 2014 a, c
(all results in milligrams per kilogram (mg/Kg) except as noted)***

Sample Location	Sample Depth ft bgs	(cis) 1,2-Dichloro-ethene	Trichloro-ethene	Tetrachloro-ethene	Gasoline	Aromatic Hydrocarbons	NOTES
Former Raincheck Cleaners							
CasePP-1	8.5	0.0088	0.0085	0.081			
CasePP-1	12	<0.00068	<0.00068	0.0062			
CasePP-2	6	<0.00075	<0.00075	0.0027			
CasePP-2	8.8	<0.00057	0.0013	0.028			
CasePP-3	5	<0.00064	<0.00064	0.0032			
CasePP-3	9	<0.00063	0.0013	0.047			
CasePP-4	1	<0.00057	<0.00057	0.034			
CasePP-4	5.9	<0.00072	<0.00072	0.0046			
Case PP Dup 1	5.9	<0.00062	<0.00062	0.0054			<i>Duplicate of CasePP-4-5.9</i>
CasePP-5	6	<0.00072	<0.00072	0.0019			
CasePP-5	7.5	<0.00065	<0.00065	0.0032			
CasePP-6	3	<0.00068	<0.00068	0.0011			
CasePP-6	6	<0.00076	<0.00076	0.0013			
CasePP-7	5	0.002	0.007	0.12			
CasePP-7	9	<0.00069	<0.00069	0.0043			
CasePP-8	4.5	0.015	0.0091	0.041			
CasePP-8	6	0.0021	0.001	0.0051			
CasePP-9	5.8	<0.00055	0.00081	0.029			
CasePP-9	9.5	<0.00063	0.0011	0.02			
CasePP-10	1	<0.00068	<0.00068	0.005			
CasePP-10	2.5	<0.00065	<0.00065	0.0018			
CasePP-11	2	<0.00068	<0.00068	0.001			
CasePP-11	6.5	<0.00080	0.0015	0.015			
CasePP-14	5	<0.00074	<0.00074	0.0008			
	9.5	0.0009	0.00095	0.0061			
CasePP-19	5	<0.00063	<0.00063	0.0079			
	7.5	<0.00074	<0.00074	0.0012			
CasePP-20	6	<0.00095	<0.00095	0.0015			
	10	<0.00097	<0.00097	<0.00097			
CasePP-22	3	<0.00093	<0.00093	0.0088			
	10	<0.0010	<0.0010	0.0055			
CasePP-23	6	<0.0010	<0.0010	0.0085			
	9	<0.00094	<0.00094	0.0056			
CasePP-24	7	0.0034	0.0055	0.075			
	10	<0.00096	0.0011	0.0099			

TABLE 1L
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: HWA GeoSciences, 2014 a, c
(all results in milligrams per kilogram (mg/Kg) except as noted)***

Sample Location	Sample Depth ft bgs	(cis) 1,2-Dichloro-ethene	Trichloro-ethene	Tetrachloro-ethene	Gasoline	Aromatic Hydrocarbons	NOTES
Former Ultra Custom Care							
CasePP-15	2.5	<0.00063	<0.00063	0.015			Soil boring adjacent to side sewer
	3.5	<0.00074	<0.00074	0.00099			
CasePP-16	7.8	<0.00069	<0.00069	<0.00069			Soil boring adjacent to side sewer
	3	<0.00098	<0.00098	<0.00098			
CasePP-17	7.9	<0.00063	<0.00063	0.0085			
	1.5	<0.00074	<0.00074	<0.00074			
CasePP-18	7.5	<0.00075	<0.00075	<0.00075			
	5	<0.00063	<0.00063	0.0044			
CasePP-21	6	<0.00076	<0.00076	0.0045			
	4	<0.0011	<0.0011	0.012			
CasePP-25	8	<0.0011	<0.0011	<0.0011			
	3	<0.00093	<0.00093	0.015			
CasePP-26	7	<0.0011	<0.0011	0.0022			
	2	<0.00063	<0.00063	0.0064			
CasePP-27	7	<0.00085	<0.00085	0.0038			
	3	<0.00068	<0.00068	0.00092			
CasePP-28	7.8	<0.00071	<0.00071	0.0033			
	2	<0.00069	<0.00069	0.0012			
CasePP-29	7.5	<0.00070	<0.00070	0.0021			
	2	<0.00065	<0.00065	0.0026			
Case Dup 5	6	<0.00065	<0.00065	0.0013			Duplicate of Case PP 29-6
	6	<0.00071	<0.00071	0.0012			
CasePP-30	2.5	<0.00064	0.0017	0.057			Soil boring adjacent to side sewer
	7	<0.00079	<0.00079	0.0022			
MW-2 Petroleum Investigation							
CasePP-12	5	<0.00073	<0.00073	<0.00073	<3.5	ND	
CasePP-12	8.5	<0.00064	<0.00064	0.00086	<4.2	ND	
CasePP-13	2	<0.00068	<0.00068	<0.00068	<4.1	ND	
CasePP-13	8.5	<0.00065	<0.00065	<0.00065	<3.8	ND	
Case Dup 3	8.5	<0.00065	<0.00065	<0.00065			Duplicate of Case PP 13-8.5
MTCA Method A/B Cleanup level		160 (B)	2	0.05	100/30	varies	

TABLE 1M
ULTRA CUSTOM CARE CLEANERS SITE SOIL ANALYTICAL DATA
Source: HWA GeoSciences, 2015
(all results in milligrams per kilogram (mg/Kg) except as noted)***

Boring	Depth (feet bgs)	PCE* (ug/kg)
Lot5 G-1	15	1.4
Lot5 G-2	12	<1.2
	18	1.8
Lot5 G-3	2.5	2
	10	3.5
Lot5 G-4	15	1.3
	18	3.1
Lot5 G-5	2.5	<1.2
	17	<1.2
	18.5	1.3
Lot5 G-6	17.5	2
Lot8 S-1	2.5	3.7
	6	4.2
Lot8 S-2	not sampled	
Lot8 S-3	5.5	3.3
	10	1.5
Lot8 S-4	1.5	<1.2
	8	2.9
MTCA A		50

TABLE 1N
ULTRA CUSTOM CARE CLEANERS UST CONFIRMATION SOIL SAMPLE ANALYTICAL DATA
Source: HWA GeoSciences, 2016
(all results in milligrams per kilogram (mg/Kg) except as noted)

SAMPLE INFORMATION		LABORATORY RESULTS					
Sample Location	Sample Depth (feet bgs)	TPH as Diesel (mg/kg)	TPH as Oil (mg/kg)	Vinyl Chloride (mg/kg)	(cis) 1,2-Dichloroethene (mg/kg)	Trichloroethene (mg/kg)	Tetrachloroethene (mg/kg)
UST-NS-5	5	81	<55	<0.0012	<0.0012	<0.0012	0.0025
UST-ES-5	5	46	<55	<0.0010	<0.0010	<0.0010	0.0056
UST-SS-5	5	<28	<57	<0.0011	<0.0011	<0.0011	0.0044
UST-WS-5	5	<27	<55	<0.0011	<0.0011	<0.0011	0.0024
UST-B-7.5	7.5	200	<55	<0.0010	<0.0010	<0.0010	0.0047
MTC Method A Cleanup Level		2,000	2,000			0.03	0.05

TABLE 1O
ULTRA CUSTOM CARE CLEANERS SOIL SAMPLE ANALYTICAL DATA
Source: HWA GeoSciences, 2017
(all results in milligrams per kilogram (mg/Kg) except as noted)

Sample Location	Sample Date	Soil Sample Depth ¹ , (ft bgs)	Tetrachloroethene (mg/kg)	Trichloroethene (mg/kg)	(cis) 1,2-Dichloroethene (mg/kg)	Vinyl Chloride (mg/kg)
MTC Method A/B Cleanup Level (Table 720-1, WAC 173-340-900)			0.05	0.03	160 (B)	240 (B)
Boring						
UCCB-1	3/21/2017	25.5	<0.00096	<0.00096	0.0016	<0.00096
UCCB-2	4/5/2017	27.5	0.046	<0.0012	<0.0012	<0.0012
UCCB-3	3/24/2017	32.5	0.0015	<0.0011	<0.0011	<0.0011
UCCB-4	4/5/2017	25	0.034	<0.00099	<0.00099	<0.00099
UCCB-5	3/22/2017	36	<0.0011	<0.0011	<0.0011	<0.0011
UCCB-6	3/23/2017	25.5	<0.0012	<0.0012	<0.0012	<0.0012
UCCB-7	3/23/2017	20	<0.0012	<0.0012	<0.0012	<0.0012
UCCB-8	3/27/2017	25	0.025	<0.0011	<0.0011	<0.0011
UCCB-9	3/22/2017	35.5	<0.0012	<0.0012	<0.0012	<0.0012
UCCB-10	3/20/2017	11	<0.00088	<0.00088	<0.00088	<0.00088

TABLE 1P
ULTRA CUSTOM CARE CLEANERS SOIL SAMPLE ANALYTICAL DATA
Source: Environmental Associates, 2016
(all results in milligrams per kilogram (mg/Kg) except as noted)

Strataprobe Boring	Tetrachloroethene (PCE)	Trichloroethene (TCE)	(cis) 1,2 Dichloroethene	(trans) 1,2 Dichloroethene	Vinyl Chloride
B1-5 @ 5'	<0.025	<0.02	<0.05	<0.05	<0.05
B1-10 @ 10'	<0.025	<0.02	<0.05	<0.05	<0.05
B1-15 @ 15'	<0.025	<0.02	<0.05	<0.05	<0.05
B2-5 @ 5'	<0.025	<0.02	<0.05	<0.05	<0.05
B2-10 @ 10'	<0.025	<0.02	<0.05	<0.05	<0.05
B2-15 @ 15'	<0.025	<0.02	<0.05	<0.05	<0.05
B2-23 @ 23'	<0.025	<0.02	<0.05	<0.05	<0.05
B3-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B3-7.5 @ 7.5'	<0.025	<0.02	<0.05	<0.05	<0.05
B3-13 @ 13'	<0.025	<0.02	<0.05	<0.05	<0.05
B4-5 @ 5'	<0.025	<0.02	<0.05	<0.05	<0.05
B4-10 @ 10'	<0.025	<0.02	<0.05	<0.05	<0.05
B4-15 @ 15'	<0.025	<0.02	<0.05	<0.05	<0.05
B5-4 @ 4'	<0.025	<0.02	<0.05	<0.05	<0.05
B5-9 @ 9'	<0.025	<0.02	<0.05	<0.05	<0.05
B5-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B5-20 @ 20'	<0.025	<0.02	<0.05	<0.05	<0.05
B6-5 @ 5'	0.037	<0.02	<0.05	<0.05	<0.05
B6-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B6-13 @ 13'	<0.025	<0.02	<0.05	<0.05	<0.05
B7-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B7-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B7-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B8-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B8-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B8-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B9-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B9-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B9-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B10-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B10-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B10-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B11-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B11-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05

B11-14	<0.025	<0.02	<0.05	<0.05	<0.05
B12-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B12-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B12-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B13-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B13-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B13-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B14-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B14-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B14-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B15-3 @ 3'	0.210	<0.02	<0.05	<0.05	<0.05
B15-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B15-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B16-5 @ 5'	<0.025	<0.02	<0.05	<0.05	<0.05
B16-16 @ 16'	<0.025	<0.02	<0.05	<0.05	<0.05
B16-10 @ 10' (reported as B-16-16)	<0.025	<0.02	<0.05	<0.05	<0.05
B16-15 @ 15'	<0.025	<0.02	<0.05	<0.05	<0.05
B17-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B17-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B17-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B18-3 @ 3'	<0.025	<0.02	<0.05	<0.05	<0.05
B18-8 @ 8'	<0.025	<0.02	<0.05	<0.05	<0.05
B18-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B19-4 @ 4'	<0.025	<0.02	<0.05	<0.05	<0.05
B19-9 @ 9'	<0.025	<0.02	<0.05	<0.05	<0.05
B19-14 @ 14'	<0.025	<0.02	<0.05	<0.05	<0.05
B20-5 @ 5'	<0.025	<0.02	<0.05	<0.05	<0.05
B20-10 @ 10'	<0.025	<0.02	<0.05	<0.05	<0.05
B20-15 @ 15'	<0.025	<0.02	<0.05	<0.05	<0.05
B21-5 @ 5'	<0.025	<0.02	<0.05	<0.05	<0.05
B21-10 @ 10'	<0.025	<0.02	<0.05	<0.05	<0.05
B21-15 @ 15'	<0.025	<0.02	<0.05	<0.05	<0.05
B22-5 @ 5'	<0.025	<0.02	<0.05	<0.05	<0.05
B22-10 @ 10'	<0.025	<0.02	<0.05	<0.05	<0.05
B22-15 @ 15'	<0.025	<0.02	<0.05	<0.05	<0.05
Reporting Limit ³	0.025	0.02	0.05	0.05	0.05
Cleanup Level for Unrestricted Land Use (Method-A) ⁴	0.05	0.03	---	---	---
Cleanup Level - (Method-B) ⁵	476	12	160	1600.0	0.667

Notes:
1 - "ND" denotes analyte not detected at or above listed Reporting Limit.
2 - "NA" denotes sample not analyzed for specific analyte.
3 - "Reporting Limit" represents the laboratory lower quantitation limit.
4 - Method A soil cleanup levels for unrestricted land use as published in the Model Toxics Control Act (MTCA) 173-340-WAC, Table 740-1.
5 - Method-B soil cleanup levels for the "direct contact pathway", as published in Ecology's CLARC May 2014 database.

Bold and Italics denotes concentrations above existing MTCA Method A or B soil cleanup levels.

TABLE 1P (cont)
ULTRA CUSTOM CARE CLEANERS SOIL SAMPLE ANALYTICAL DATA
Source: Environmental Associates, 2016
(all results in milligrams per kilogram (mg/Kg) except as noted)

Strataprobe Boring	Gasoline (TPH)	Diesel	Heavy Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
B4-10 @ 10'	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
B8-14 @ 14'	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
B12-14 @ 14'	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
B19-4 @ 4'	<2	74x	440	<0.02	<0.02	<0.02	<0.06
Reporting Limit ³	2	50	250	0.02	0.02	0.02	0.06
WDOE Target Compliance Level⁴	30 or 100⁵	2000	2000	0.03	7	6	9

Notes:
1 - "ND" denotes analyte not detected at or above listed Reporting Limit.
2- "NA" denotes sample not analyzed for specific analyte.
3- "Reporting Limit" represents the laboratory lower quantitation limit.
4- Soil samples were field screened using a GasTech combustible gas meter to measure the concentration of combustible gas, such as petroleum VOCs. Headspace VOC concentrations were measured after placing the soil sample in a sealed plastic bag and allowing soil and air inside the bag to equilibrate.
5- The MTCA gasoline TPH cleanup level is 30 ppm for soils with benzene otherwise it is 100 ppm.
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
Bold and italics denotes concentrations above MTCA Method A soil cleanup levels.
BGS - Below ground surface.

Table 1 Notes:

MTCA A / B – Ecology MTCA Method A / B soil cleanup levels, Chapter 173-340 WAC, shown for reference only. These cleanup levels may not apply at this site, and are provided as a screening level indication of the environmental quality of the site only.

BKGD - Natural Background Soil Metals Concentrations in Washington State (Ecology, 1994)

NE – Not Established

< - not detected at listed reporting limit

Bold – Analyte Detected

Bold / highlighted – Analyte exceeds cleanup level

Sample in area that was subsequently excavated

Blank – not analyzed

* - The Method A Soil cleanup levels for gasoline mixtures without benzene and the total of ethylbenzene, toluene, and xylenes are less than 1% of the gasoline mixture are 100 mg/kg/all other mixtures are 30 mg/kg

** - The Method A soil cleanup levels for Chromium are 19 mg/kg for Cr VI and 2000 mg/kg for Cr III. Analyses are for total chromium.

*** - No other VOCs or RCRA metals were detected above laboratory reporting limits.

**** - Common laboratory solvent that may have been introduced during sample preparation and affecting the analytical result.

*****- Calculated using MTCASGL11 spreadsheet tool (Ecology, 2006) and the most current input parameters recommended by Ecology (2011).

All diesel range hydrocarbon sample extracts were treated with an acid/silica gel cleanup procedure

TABLE 2A
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
SOURCE: Farallon Consulting, 2002
(all results in micrograms per liter (µg/L) except as noted)

Boring	MW-1	MW1-26-29	MW-2	MW-3	SB-1	SB-2	SB-3	SB-4	SS-1	SS-2	MTCA A/B	
Date Sampled	3/6/02	2/19/02	3/6/02	3/6/02	2/19/02	7/19/01	7/19/01	7/19/01	7/19/01	7/19/01		
Screened Interval (ft bgs)	5-15	26-29	2.5-12.5	3-13	4-5	4-5	4-5	4-5	Catch Basin Water	Catch Basin Water		
Approximate Depth to Water (ft bgs)	8.07		5.59	4.94								
Petroleum Hydrocarbons	Gasoline Range		<100								800/1000*	
	Diesel Range										500	
	Oil Range										500	
VOCs***	Tetrachloroethene	880	29	0.41	4.7	<0.20	<0.20	0.37	6.1	500	25	5
	Trichloroethene	18	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	300	7.6	5
	(cis) 1,2- Dichloroethene	36	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	390	3.4	16 (B)
	(trans) 1,2- Dichloroethene	0.38	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<20	<0.20	160 (B)
	Vinyl chloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	<1.0	26	<0.20	0.2
	Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	120****	<1.0	5
	Dichlorodifluoromethane	<0.20	<0.20	<0.20	<0.20	0.22	<0.20	<0.20	0.2	<20	<0.20	1600 (B)
Chloroform	2	2.30	<0.20	0.44	0.70	0.24	<0.20	0.39	<20	<0.20	1.41 (B)	

TABLE 2B
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: Environmental Partners Inc., 2004
(all results in micrograms per liter (µg/L) except as noted)

Boring	B-1	B-1	B-1	B-2	B-2	B-2	B-3	B-3	B-3	B-4	B-4	B-4	MTCA A/B	
Date Sampled	7/22/04	7/22/04	7/22/04	7/26/04	7/26/04	7/26/04	7/26/04	7/26/04	7/26/04	7/23/04	7/23/04	7/23/04		
Screened Interval (ft bgs)	8-12	26-30	40-44	8-12	22-26	36-40	8-12	22-26	36-40	8-12	22-26	36-40		
Approximate Depth to Water (ft bgs)	9	9	9	9	9	9	9	9	9	9	9	9		
VOCs***	Tetrachloroethene	6400	5	5	14	<2	<2	410	<2	<2	1900	<2	<2	5
	Trichloroethene	110	<2	<2	<2	<2	<2	<2	<2	<2	210	<2	<2	5
	(cis) 1,2- Dichloroethene	31	<2	<2	<2	<2	<2	<2	<2	<2	160	<2	<2	16 (B)
	Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.2
	1,1,1-Trichloroethane	<2	<2	<2	8	<2	<2	<2	<2	<2	<2	<2	<2	200
	Chloroform	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.41 (B)

Boring	B-5	B-5	B-5	B-6	B-6	B-6	B-7	B-7	B-7	B-8	B-8	B-8	MTCA A/B	
Date Sampled	7/26/04	7/26/04	7/26/04	7/22/04	7/22/04	7/22/04	7/23/04	7/23/04	7/23/04	7/23/04	7/23/04	7/23/04		
Screened Interval (ft bgs)	8-12	22-30	36-40	8-12	22-26	36-40	8-12	22-26	36-40	8-12	22-26	32-36		
Approximate Depth to Water (ft bgs)	9	9	9	9	9	9	9	9	9	9	9	9		
VOCs***	Tetrachloroethene	4	<2	4	9	<2	<2	4	<2	<2	5	<2	<2	5
	Trichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5
	(cis) 1,2- Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	16 (B)
	Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.2
	1,1,1-Trichloroethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	200
	Chloroform	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.41 (B)

TABLE 2B (Continued)
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: Environmental Partners Inc., 2004
(all results in micrograms per liter (µg/L) except as noted)

Boring		B-9	B-9	B-9	B-10	B-11	B-12	B-13	B-14	B-16	MW-1	MTCA A/B
Date Sampled		7/23/04	7/23/04	7/23/04	10/25/04	10/25/04	10/25/04	10/25/04	7/23/04	10/26/04	7/22/04	
Screened Interval (ft bgs)		8-12	22-30	36-40	20-24	20-24	20-24	10-14	10-14	10-14	5-15	
Approximate Depth to Water (ft bgs)		9	9	9	19.5	20		11	11	11	9.56	
VOCs***	Tetrachloroethene	3	<2	<2	23	18	8	18	16	30	4	5
	Trichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5
	(cis) 1,2- Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	16 (B)
	Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.2
	1,1,1-Trichloroethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	200
	Chloroform	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<2

TABLE 2C
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: CDM, 2009
(all results in micrograms per liter (µg/L) except as noted)

Boring		B2	B3	B7	B8	B10	B11	B12	B13	B18	MTCA A/B
Date Sampled		4/2/09	4/3/09	4/1/09	4/6/09	4/7/09	4/7/09	4/7/09	4/2/09	4/6/09	7/23/04
Screened Interval (ft bgs)		8-12	11-14		7-14	7-14	7-14	8-14		8-14	
Approximate Depth to Water (ft bgs)		8	11		7	7	7	8		8	
Petroleum Hydrocarbons	Gasoline Range	380	270							<400	800/1000*
	Diesel Range	<260	<300							<260	500
	Oil Range	<420	<0.49							<420	500
VOCs***	Benzene	<1.0	5.7							13	5.0
	Toluene	<1.0	<1.0							<4.0	1000
	Ethylbenzene	<1.0	3.5							<4.0	700
	Xylenes	1.5	4.1							<4.0	1000
	Tetrachloroethene	25	20	<0.20	0.37	54	49	57	1.2	57	5
	Trichloroethene	11	<0.20	<0.20	<0.20	<0.40	<0.20	<0.40	<0.20	9.9	5
	(cis) 1,2- Dichloroethene	5.0	<0.20	<0.20	<0.20	<0.40	<0.20	<0.40	<0.20	6.0	16 (B)
	Vinyl Chloride	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.40	<0.20	2.7	0.2
Chloroform	<0.20	<0.20	<0.20	0.22	1.6	1.5	<0.40	<0.20	<0.40	<0.40	1.41 (B)
Chlorobenzene	0.22	<0.20	<0.20	<0.20	<0.40	<0.20	<0.40	<0.20	0.55	160 (B)	

TABLE 2D
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: Parametrix, 2010
(all results in micrograms per liter (µg/L) except as noted)

Boring		SB01	SB02	SB03	SB05	MTCA A/B
Date Sampled		4/1/10	3/31/10	3/31/10	4/1/10	
Screened Interval (ft bgs)		17-20	17-20	18-20	18-20	
Approximate Depth to Water (ft bgs)		17	17	18	18	
Petroleum Hydrocarbons	Gasoline Range	<100	<100	<100		800/1000*
	Diesel Range	<160	<310	<290		500
	Oil Range	<250	<490	<460		500
VOCs***	Benzene	<1.0	<1.0	<1.0		5.0
	Toluene	<1.0	<1.0	<1.0		1000
	Ethylbenzene	<1.0	<1.0	<1.0		700
	Xylenes	<1.0	<1.0	<1.0		1000
	Tetrachloroethene		<0.20	<0.20	3.7	5
	Trichloroethene		<0.20	<0.20	<0.20	5
	(cis) 1,2- Dichloroethene		<0.20	<0.20	<0.20	16 (B)
	Vinyl Chloride		<0.20	<0.20	<0.20	0.2
	Chloroform		<0.20	<0.20	<0.20	1.41 (B)
Chlorobenzene		<0.20	<0.20	<0.20	160 (B)	
Metals***	Mercury			<0.50		2
	Arsenic			<3.0		5
	Chromium			<10.00		50
	Lead			<1.00		15
	Cadmium			<4.00		5

TABLE 2E
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: HWA GeoSciences, 2008
(all results in micrograms per liter (µg/L) except as noted)

Boring		BB-2	BB-3	BB-4	MTCA A/B
Date Sampled		9/5/08	9/5/08	9/10/08	
Screened Interval (ft bgs)		9-19	10-20	NA	
Approximate Depth to Water (ft bgs)		4.58	14.99	11.2	
Petroleum Hydrocarbons	Gasoline Range	150		<100	800/1000*
	Diesel Range	<250		<250	500
	Oil Range	<400		<400	500
VOCs***	Benzene	<0.40	<0.20	<0.20	5.0
	Toluene	<2.0	<1.0	<1.0	1000
	Ethylbenzene	<0.40	<0.20	<0.20	700
	Xylenes	<0.80	<0.40	<0.40	1000
	Tetrachloroethene	94	0.51	<0.20	5
	Trichloroethene	<0.40	<0.20	<0.20	5
	(cis) 1,2- Dichloroethene	<0.40	<0.20	<0.20	16 (B)
	Vinyl Chloride	<0.40	<0.20	<0.20	0.2
	Chloroform	<0.20	<0.20	<0.20	1.41 (B)
	Chlorobenzene				160 (B)

TABLE 2F
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: HWA GeoSciences, 2011a
(all results in micrograms per liter (µg/L) except as noted)***

Location	Sample	Chloro- methane	Chloro- form	(cis) 1,2- Dichloro- ethene	Trichloro- ethene	Tetrachloro- ethene
New sanitary sewer line (borings in native or fill sols)	CH-B1-W	<1	<0.2	0.84	3.1	46
	CH-B2-W	<1	0.75	<0.2	1	31
	CH-B3-W	<1	<0.2	<0.2	<0.2	3.6
	CH-B4-W	<1	<0.2	<0.2	<0.2	0.3
New storm drain line (borings in native or fill sols)	CH-B5-W	<1	<0.2	<0.2	<0.2	7.5
	CH-B6-W	2.2	<0.2	<0.2	<0.2	1.3
	CH-B7-W	<1	<0.2	<0.2	<0.2	<0.2
Proposed cutoff wall (not built)	CH-B8-W	<1	<0.2	<0.2	<0.2	<0.2
	CH-B9-W	<1	<0.2	<0.2	<0.2	<0.2
	CH-B10-W	<1	<0.2	<0.2	<0.2	<0.2
	CH-B11-W	<1	<0.2	<0.2	<0.2	<0.2
Eastern plume limits	CH-B12-W	<1	<0.2	<0.2	<0.2	<0.2
	CH-B13-W	<1	<0.2	<0.2	<0.2	<0.2
MTCA A/B		NA	1.41 (B)	16 (B)	5	5
KCIWD				2000	500	240

TABLE 2G
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: HWA GeoSciences, 2011b (see Figure 10)
(all results in micrograms per liter (µg/L) except as noted)

Location	Sample	Vinyl Chloride	(trans) 1,2 Dichloroethene	(cis) 1,2-Dichloroethene	Chloroform	Trichloroethene	Bromo-dichloro-methane	Tetrachloroethene
Exterior Storm Drains (catch basin water)	SD-1-W	20	4.7	420	<4.0	95	<4.0	330
	SD-2-W	<0.20	<0.20	0.31	<0.20	0.43	<0.20	2.4
	SD-3-W	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	SD-4-W**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Interior Drains	SS-1-W	<1.0	<1.0	<1.0	6.3	<1.0	<1.0	8.7
	SS-2-W	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.5
	SS-3-W	<0.20	<0.20	0.76	7.7	<0.20	0.32	12
Roof vent	Vent-1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.1
Monitoring Wells	MW-1	<0.20	<0.20	<0.20	1.2	0.36	<0.20	8.4
	MW-2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.94
	MW-3	<0.20	<0.20	0.29	1.2	<0.20	<0.20	3.2
MTCA A/B		0.2	160 (B)	16 (B)	1.41 (B)	5	0.71 (B)	5
KCIWD		12	2000	2000		500		240

TABLE 2H
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: HWA GeoSciences, 2012
(all results in micrograms per liter (µg/L) except as noted)

Location	Sample	Acetone	2-Butanone	Chloro-form	Bromo-dichloro-methane	Vinyl Chloride	(cis) 1,2-Dichloro-ethene	Trichloro-ethene	Tetrachloro-ethene
New storm drain line (borings in native or fill soils)	PSD-B2-W	<5	<5	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
	PSD-B5-W	<5	<5	<0.20	<0.2	2.0	4.1	0.59	1.3
Existing storm drain (borings in native or fill soils)	ESD-B1-W	<5	<5	0.45	<0.2	<0.20	0.48	1.0	26
	ESD-B2-W	<5	<5	0.52	<0.2	<0.20	<0.20	0.45	26
Existing sanitary sewer (samples within existing utility trench)	ESS-B1-W	<5	<5	<0.20	<0.2	<0.20	0.28	0.58	13
	ESS-B2-W	<5	<5	0.61	<0.2	<0.20	0.22	0.25	32
	CB-6-W	22	20	3.2	0.33	<0.20	<0.20	<0.20	<0.20
MTCA A/B		7200 (B)	4800 (B)	1.41 (B)	0.71 (B)	0.2	16 (B)	5	5
KCIWD							2000	500	240

TABLE 2I
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: CDM 2011
(all results in micrograms per liter (µg/L) except as noted)

Boring		RC-B19	RC-B20	RC-B21	RC-B22	RC-B23	RC-B24	RC-B25	RC-B26	RC-B27	RC-B28	RC-B29	RC-BB2	RC-BB3	MTCA A/B
Date Sampled		6/27/11	6/27/11	6/27/11	6/27/11	6/27/11	6/27/11	6/27/11	6/27/11	6/28/11	6/28/11	6/28/11	6/27/11	6/28/11	
VOCs***	Tetrachloroethene	1.4	<0.20	<0.20	<0.20	<0.20	<0.20	0.40	<0.20	<0.20	2.7	<0.20	76	<0.20	5
	Trichloroethene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	5
	(cis) 1,2- Dichloroethene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.32	<0.40	<0.20	16 (B)
	Vinyl Chloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	2.9	<0.40	<0.20	0.2

TABLE 2J
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: CDM Smith, 2013
(all results in micrograms per liter (µg/L) except as noted)

Boring		B30 (in native or fill soils)	B31 (within existing utility trench)	B32 (within existing utility trench)	B33 (in native or fill soils)	B34 (in native or fill soils)	B36 (within existing utility trench)	B37 (in native or fill soils)	MTCA A/B
Date Sampled		5/10/13	5/10/13	5/10/13	5/10/13	5/10/13	5/9/13	5/9/13	
Petroleum Hydrocarbons	Gasoline Range	330							800/1000*
	VOCs***								
	Tetrachloroethene	<0.20	<0.20	<0.20	<0.20	2.2	<0.20	2.2	5
	Trichloroethene	<0.20	<0.20	<0.20	<0.20	0.33	<0.20	0.55	5
	(cis) 1,2- Dichloroethene	<0.20	<0.20	<0.20	<0.20	0.37	0.33	<0.20	16 (B)
	o-Xylene	0.21							1000
	Bromodichloromethane	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	160 (B)
	Chloroform	<0.20	<0.20	<0.20	0.81	<0.20	<0.20	0.45	1.41 (B)

TABLE 2K
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: HWA GeoSciences, 2009
(all results in micrograms per liter (µg/L) except as noted)

Boring	GM-1-W	GM-2-W	GM-3-W	GM-4-W	GM-5-W	GM-6-W	BB-1-W	MTCA Method A/B Cleanup level	
Location	Northwest property line, down-gradient former service station	North-central property, former lubrication garage	Northeast property, up-gradient	East-central property, down-gradient of former grease rack	Southwest property, down-gradient of former service station	South property, down-gradient of service station	Southeast property, down-gradient of service station		
Approximate Depth to Water (ft bgs)	8	8	6	6	8	8	8		
Field Parameters	pH	6.23	6	5.91	6.01	5.97	5.98	6.1	
	Conductivity (mS/cm)	381	219	232	301	250	244	301	
	Temperature (C)	11.9	9.4	12.3	12.5	12.3	12.5	12.4	
	Dissolved Oxygen (mg/l)	2.57	3.8	2.49	3.01	3.44	3.76	2.51	
Petroleum Hydrocarbons	Diesel	<0.26	<0.25	<0.25	<0.26	<0.26	<0.25	<0.28	500
	Oil	<0.42	<0.40	<0.40	<0.42	<0.41	<0.40	<0.45	500
	Gasoline	<100	<100	<100	<100	<100	<400	<100	1000/800*
VOCs**	Benzene	<0.20	<1.0	<0.20	<1.0	<0.20	<0.20	<0.20	5
	Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1000
	Ethylbenzene	<0.20	<1.0	<0.20	<1.0	<0.20	<0.20	<0.20	700
	Xylenes	<0.20	<1.0	<0.20	<1.0	<0.20	<0.20	<0.20	1000
	Vinyl Chloride	<0.20		1		<0.20	0.28	<0.20	0.2
	Acetone	<5.0		<5.0		<5.0	<5.0	7.1	7200(B)
	Methyl t-Butyl Ether	<0.20		<0.20		<0.20	<0.20	0.3	20
	cis-1,2-Dichloroethene	<0.20		7		<0.20	0.38	<0.20	16 (B)
	Chloroform	<0.20		<0.20		<0.20	<0.20	0.25	1.41 (B)
	Methyl Isobutyl Ketone	<2.0		<2.0		<2.0	<2.0	4.5	640
	Trichloroethene	<0.20		1.1		0.25	<0.20	<0.20	5
Tetrachloroethene	<0.20		0.9		<0.20	<0.20	<0.20	5	
RCRA Metals**	Arsenic		<3.3		<3.3	<3.3	<3.3	180	5
	Barium		<4.4		<4.4	40	<4.4	2400	3200 (B)
	Chromium		<11		<11	<11	<11	930	50
	Lead		<1.1		<1.1	<1.1	<1.1	380	15
	Mercury		<0.50		<0.50	<0.50	<0.50	0.59	2
	Selenium		<5.6		<5.6	<5.6	<5.6	11	80

TABLE 2L
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: HWA GeoSciences, 2015
(all results in micrograms per liter (µg/L) except as noted)

Boring	PCE*** (µg/L)
Lot5 G-1	1.6
Lot5 G-2	0.63
Lot5 G-3	11
Lot5 G-4	9.8
Lot5 G-5	5.1
Lot5 G-6	1.8
Lot8 S-1	2.1
Lot8 S-2	not sampled
Lot8 S-3	0.43
Lot8 S-4	0.9
MTCA A	5

TABLE 2M
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: Farallon, 2016
(all results in micrograms per liter (µg/L) except as noted)

Sample Location	Sample Identification	Sample Depth (feet) ¹	Sample Date	Analytical Results (micrograms per liter) ²				
				PCE	TCE	cis-1,2- Dichloroethene	trans-1,2- Dichloroethene	Vinyl Chloride
FB-9	FB-9-GW-22.0-062216	22.0	6/22/2016	0.86	< 0.20	< 0.20	< 0.20	< 0.20
	FB-9-GW-27.0-062216	27.0	6/22/2016	8.7	< 0.20	< 0.20	< 0.20	< 0.20
	FB-9-GW-32.0-062216	32.0	6/22/2016	5.8	< 0.20	< 0.20	< 0.20	< 0.20
MTCA Cleanup Levels for Groundwater³				5	5	16 ⁴	160 ⁴	0.2

TABLE 2N
ULTRA CUSTOM CARE CLEANERS SITE GROUND WATER ANALYTICAL DATA
Source: HWA GeoSciences, 2017
(all results in micrograms per liter (µg/L) except as noted)

Sample Location	Sample Date	Screened Depth, (ft bgs)	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)	Vinyl Chloride (µg/L)
MTCR Method A/B Cleanup Level (Table 720-1, WAC 173-340-900)			5	5	16 (B)	0.2
Boring						
UCCB-1	3/21/2017	9-14	<0.20	<0.20	<0.20	<0.20
		23-28	<0.20	<0.20	3.7	<0.20
		35-40	<0.20	<0.20	<0.20	<0.20
UCCB-2	4/5/2017	7-12	2.6	<0.20	0.37	<0.20
		22-27	35	<0.20	<0.20	<0.20
		35-40	21	<0.20	0.41	<0.20
UCCB-3	3/24/2017	1-6	<0.20	<0.20	<0.20	<0.20
		25-30	4.1	<0.20	<0.20	<0.20
		35-40	0.45	<0.20	<0.20	<0.20
UCCB-4	4/5/2017	7-12	<0.20	<0.20	<0.20	<0.20
		18-23	14	<0.20	<0.20	<0.20
		33-38	9.3	<0.20	<0.20	<0.20
UCCB-5	3/22/2017	10-20	<0.20	<0.20	<0.20	<0.20
		29-34	4.2	<0.20	<0.20	<0.20
		40-45	1.5	<0.20	<0.20	<0.20
UCCB-6	3/23/2017	7-12	<0.20	<0.20	<0.20	<0.20
		20-25	<0.20	<0.20	<0.20	<0.20
		33-38	<0.20	<0.20	<0.20	<0.20
UCCB-7	3/23/2017	14-19	<0.20	<0.20	<0.20	<0.20
		25-30	<0.20	<0.20	<0.20	<0.20
		35-40	<0.20	<0.20	<0.20	<0.20
UCCB-8	3/27/2017	N/A	N/A	N/A	N/A	N/A
		20-25	64	0.22	1.2	0.55
		35-40	21	<0.20	0.25	<0.20
UCCB-9	3/22/2017	15-20	<0.20	<0.20	<0.20	<0.20
		28-33	0.61	<0.20	<0.20	<0.20
		39-44	<0.20	<0.20	<0.20	<0.20
UCCB-10	3/20/2017	7-12	1.1	1.3	3.1	0.20
		19-24	<0.20	0.89	9.0	<0.20
		35-40	<0.20	<0.20	<0.20	<0.20

(all results in micrograms per liter (µg/L) except as noted)

Source Area	Sample Location	Screened Depth (ft BGS)	Depth to Water (ft BGS)	Sample Date	Conductivity (µmhos/cm)	Temperature (°C)	Diss. Oxygen (mg/L)	Fe ²⁺ (mg/L)	Redox Potential (millivolt)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	[cis] 1,2-Dichloroethene (µg/L)		Vinyl Chloride (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Organic Carbon (mg/L)		Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Sodium (mg/L)		Dissolved Sodium (mg/L)	Chloride (mg/L)	Reductants (vCA) Gene Copies/Liter						
												16 (B)	9.2 (NA)				NA	NA				NA	NA				NA	NA				
MTCA Method A/B Cleanup Level Table 720-1, WAC 173-340-900	MW-1	5-15	3/13/2014	7.75	6.27	568	12.5	7.9		130	30	120	<1.0	4.4	27	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	Baseline				
			5/12/2014	8.56	6.09	517	15.0	3.17	0.0	<0.23	21	4.9	13	<0.20		8.0	13	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	Baseline				
			6/26/2014	8.77	5.94	654	15.0	4.05	0.0		15	2.9	8.4	<0.20																2 weeks after first chem-o-x injection		
			9/19/2014	3.05	6.04	20	3.3	0.6	0.0		3.5	3.4	0.4	<0.20																2 weeks after second chem-o-x injection		
			9/17/2014	0.97	5.91	50.4	18.5	1.94	0.0		4.3	<0.20	<0.20	<0.20																	6 weeks after second chem-o-x injection	
			10/17/2014	10.14	4.85	3295	13.5	2.24	0.0		8.9	<0.20	<0.20	<0.20																	6 weeks after second chem-o-x injection	
			3/20/2015	8.95	6.15	133.5	13.0	0.00	0.0		135.1	2.5	1.1	8.1	<0.20		<0.50	30	840	110	65	52	210000								6 weeks after first in situ bio injections	
			7/22/2015	5.11	14.89	19.93	0.00	2.0	<112.7	2.5	1.4	130	5.4	1.6	<0.50		1.56	<0.50	250												6 months after first in situ bio injections	
			10/01/2015	11.28	6.34	1287	16.4	0.00	1.4	<119	<11.0	<10	1600	21	<0.27	<0.20	320	7700	<500	<0.5	8900	61000									6 months after first in situ bio injections	
			9/16/2016	8.54	13.4	44	12.0	26.3	8.4	0.0		27.4	<0.10	<0.10	<0.10		190	6000	<220	<0.9	4000	92000									6 months after second in situ bio injections	
			5/4/2016	9.78	5.77	2123	14.23	0.00	4.0	<98.1	3.7	2.3	310	11	0.77	<0.20	2400	5000	<67	7.7	31000										1 weeks after second in situ bio injections	
			8/11/2016	9.69	6.14	130	17.0	0.79	0.0	<17.9	<1.0	<1.0	190	0.0	<0.20		650	6400	<91	<0.7	13000										6 months after second in situ bio injections	
			11/11/2016	8.89	6.23	1300	17.3	0.22	6.0	<11.4	<1.0	<1.0	31	0.14	<0.20		460	12000	<160	6.1	10000										2 months after second in situ bio injections	
			3/13/2017	8.1	6.2	732	11.83	0.56	4.0	<91.1	0.54	0.4	41	12	0.13	<0.20	280	18000	<100	<11	10000	88000									11 months after second in situ bio injections	
			UCCM-4	35-40	3/13/2014	9.45	6.70	675	14.3	4.81	0.0		0.88	<0.20	<0.20	<0.20	<0.5	8.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	Baseline		
5/12/2014	8.30	6.83			523	15.7	0.16	0.0		<24.7	0.20	<0.20	<0.20	<0.20	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	Baseline					
6/26/2014	8.18	6.71			689	16.0	0.00	0.0		0.23	<0.20	<0.20	<0.20																	2 weeks after first chem-o-x injection		
9/19/2014	8.2	6.93			340	22.2	0.37	0.0		4.9	<0.20	<0.20	<0.20																	2 weeks after second chem-o-x injection		
9/18/2014	8.41	6.96			361	18.9	0.00	0.0		0.28	<0.20	<0.20	<0.20																		6 weeks after second chem-o-x injection	
12/17/2014	9.24	6.61			288	14.6	1.32	0.0		1.7	8.44	<0.20	<0.20	<0.20																	6 months after second chem-o-x injection	
4/22/2015	9.21	7.19			248	15.0	1.94	0.0		<126.7	8.4	<0.20	<0.20	<0.20																	6 weeks after first in situ bio injections	
7/17/2015	6.48	229			17.0	15.3	0.01	0.0		0.28	<0.20	<0.20	<0.20																			12 months after second chem-o-x injection
10/21/2015	10.20	7.38			196	20.5	3.05	0.0		<29.1	0.5	<0.20	<0.20	<0.20																	6 months after first in situ bio injections	
1/28/2016	8.87	134			14.49	3.89	0.0	0.0		<28.9	<0.20	<0.20	<0.20	<0.20																		12 months after first in situ bio injections
8/12/2016	9.05	6.72			178	17.47	0.27	0.0		<0.9	0.47	<0.20	<0.20	<0.20																		6 months after second in situ bio injections
3/9/2017	7.47	7.57			265	13.38	4.42	0.0		<140.9	0.21	<0.20	0.3	<0.20																		10 months after second in situ bio injections
UCCM-17	10-20	5/11/2014			8.16	6.20	351	14.6	2.03	0.0		<100	<0.20	<0.20	<0.20	3.1	11	<1.0	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	Baseline			
		6/26/2014			8.19	6.06	691	14.7	4.96	0.0		0.38	<0.20	<0.20	<0.20																	2 weeks after first chem-o-x injection
		9/15/2014			8.45	6.10	563	17.0	28.84	0.0		0.21	<0.20	<0.20	<0.20																	2 weeks after second chem-o-x injection
		9/17/2014	8.78	6.40	465	19.1	8.84	0.0		0.7	<0.20	<0.20	<0.20																		6 weeks after second chem-o-x injection	
		12/17/2014	8.80	6.93	376	14.8	3.30	0.0		3.4	3.2	3.3	0.3	<0.20																	6 months after first in situ bio injections	
		3/24/2015	9.47	5.80	271	15.1	0.00	0.0		197.5	0.98	<0.20	<0.20	<0.20																		6 months after first in situ bio injections
		7/17/2015	8.46	227	17.5	43.9	0.0	0.0		88.8	4.98	<0.20	0.89	<0.20																		6 weeks after first in situ bio injections
		10/01/2015	10.82	6.48	229	17.4	19.3	0.0		63.4	0.74	<0.20	0.36	<0.20																		6 months after first in situ bio injections
		1/28/2016	5.76	11.2	15.31	5.33	0.0	104.3	0.51	<0.20	<0.20	<0.20	<0.20	3.2	17	1.1	1.0	<0.50	<0.50	<0.50	9100	9400									12 months after first in situ bio injections	
		3/20/2016	8.51	8.80	222	20.33	7.53	0.0		<126.9	4.3	0.22	1.2	<0.20																		6 weeks after second in situ bio injections
		8/11/2016	9.21	6.80	480	17.30	2.90	0.0		<2.9	0.81	<0.20	0.78	<0.20	1.8	19	1.0	1.8	<0.50	<0.50	<0.50	17000									6 months after second in situ bio injections	
		11/10/2016	8.65	5.72	293	18.86	8.24	0.0		49.30	3.5	3.6	4.4	<0.20																		7 months after second in situ bio injections
		3/13/2017	7.82	6.15	324	13.69	1.46	0.8	60.8	1.6	3.4	280	7.0	3.8	30	7.8	450	<5.2	1.5	31000	30000										10 months after second in situ bio injections	
		UCCM-18	10-20	9/15/2014	8.66	6.02	614	15.6	0.54	0.0		0.5	<0.20	<0.20	<0.20																	2 weeks after second chem-o-x injection
				9/17/2014	8.99	5.93	759	19.2	6.83	0.0		1.7	<0.20	<0.20	<0.20																	
10/17/2014	9.83			6.01	372	14.1	1.02	0.0		<159.9	8.5	170	0.0	<0.20																	6 months after second chem-o-x injection	
3/24/2015	9.54			6.62	1232	14.8	0.00	0.0		<144.7	0.86	<0.20	<0.20	<0.20	<0.50	<0.5	670	19	8.5	10	17000										8.00E+04	
7/22/2015	5.64			4.89	20.0	0.00	1.0	<210.1	1.4	0.35	2.2	0.80	0.28	7.8	31																6 months after first in situ bio injections	
10/20/2015	10.89			6.26	263	17.39	3.72	0.8	<106.9	<1.0	1.2	11.0	3.4	<1.2	13	21	4000	<250	<0.50													6 months after first in situ bio injections
1/28/2016	10.02			7.90	1338	3.05	0.00	0.0		<87.4	<0.10	<0.10	<0.10	<0.10																		12 months after first in situ bio injections
5/20/2016	9.45			5.66	379	15.57	4.17	3.0	5.4	<2.0	<0.20	0.90	24.0	<0.20	87	5000	<67	249	2000													

Table 2-0
Ultra Clean Core Cleaners Site
Ground Water Analytical Data
(all results in micrograms per liter (µg/L) except as noted)

Sample Location	Screened Depth (ft Bgs)	Sample Date	Depth Ho Water (ft)	pH (units)	Conductivity (µS)	Temperature (°C)	Diss. Oxygen (mg/L)	Fe ²⁺ (mg/L)	Redox Potential (millivolt)	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)		Vinyl Chloride (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Organic Carbon (mg/L)					Dissolve Sulfur (mg/L)	Chloride Reductant (w/CA) Gene Copies/liter							
												NA	NA				NA	NA	NA	NA	NA			NA	NA	NA	NA	NA		
MTC/A Method A/B Cleanup Level (Table 720 - WAC 173-340-900)	BL-3	5-10	10/21/2015	6.80	6.20	17.1	8.60	0.0	75	8.5	5	16	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29000	29000	9 months after first in situ bio injections				
			1/28/2016	6.42	168.16	14.7	8.80	0.0	87.0	10.8	-0.20	-0.20	-0.20	1.9	2.1	3.7	0.84	<-0.50	<-0.50	29000	31000	12 months after first in situ bio injections								
			5/20/2016	6.90	6.19	198	15.20	8.52	<116.8	7.8	<-0.20	<-0.20	<-0.20	4.4	4.4	2.3	8.4	<-0.50	<-0.50	32000	32000	5 weeks after second in situ bio injections								
			8/11/2016	4.98	6.20	359	17.18	0.76	<37.5	1.1	0.73	3.8	<0.1	0.30	1.60	<1.8	6.3	6900	6900	4 months after second in situ bio injections										
			11/28/2016	4.03	6.32	298.9	17.50	0.10	<89.9	8.1	1.9	2.6	0.20	<0.050	<1.0	6.2	1400	<3.2	<1.8	32000	33000	4 months after second in situ bio injections								
			3/7/2017	3.96	6.42	343	12.14	0.74	3.2	<134.4	6.6	1.0	12	0.30	<0.050	<5.0	1.4	11000	<9.0	<1.1	46000	42000	10 months after second in situ bio injections							
			6/10/2014	4.27	6.11	1.56	10.00	0.00	2.08	4.5	0.43	1.2	1.3	1.0	1.8	1.2	1.3	1.0	1.8	1.2	<1.1			2 weeks after first chem-ox injection						
			3/7/2014	4.17	6.32	394	19.8	0.25	0.00	2.00	2.1	0.52	2.9	0.6													10 weeks after second chem-ox injection			
			12/17/2014	3.83	6.77	295	12.00	0.32	0.00	2.00	2.5	0.35	2.4	1.5														4 weeks after second chem-ox injection		
			3/30/2015	4.30	6.17	204	14.00	0.00	0.00	2.00	0.68	0.37	2.6	1.5															5 weeks after first in situ bio injections	
			1/26/2015	4.86	6.06	209	20.31	0.00	0.00	118.3	0.00	0.00	0.00	0.00															6 months after first in situ bio injections	
			10/22/2015	4.92	6.69	213	18.79	0.00	0.00	<59.5	0.52	0.20	1.6	0.96															9 months after first in situ bio injections	
			12/7/2016	7.1	1.28	124.1	4.63	0.00	0.00	<72.6	<0.20	<0.20	1.8	0.93																12 months after first in situ bio injections
			3/8/2017	1.49	6.59	204	1.96	0.00	0.00	<78.7	0.92	0.90	4.0	0.74																11 months after second in situ bio injections
			Second Injection Row																											
UCCMW-8	5-15	5/29/2014	6.07	6.52	490	13.9	1.87	0.0	283	116	<1.0	<1.0	<1.0	2.3	18	<1.0	<0.50	<0.50	<0.50								Baseline			
		12/12/2014	5.51	6.97	257	14.8	1.30	0.00	76	0.57	<0.40	<0.40																6 weeks after second chem-ox injection		
		3/23/2015	5.80	6.12	180	12.7	0.00	0.00	<90.1	4.9	0.38	<0.20	<0.20	0.24	6.2	3.7	48	<0.50	<0.50	1400	1400	4 weeks after first in situ bio injections								
		7/8/2015	5.76	237	17.8	0.00	0.00	61.2	4.3	3.3	6.6	<0.20	<0.20	0.35	1.9	4.2	<0.50	<0.50	1400	1400	8 weeks after first in situ bio injections									
		10/12/2015	7.00	6.41	217	18.7	0.00	0.00	84.6	3.6	2.9	0.73	<0.20	0.71	1.6	1.8	11.0	<1.0	<1.0	12000	12000	9 months after first in situ bio injections								
		2/22/2016	6.11	11.2	12.58	2.55	0.00	0.00	106.1	7.5	1.6	1.0	<0.20	2.2	1.6	1.4	66	<1.1	<0.58	13000	13000	12 months after first in situ bio injections								
		5/29/2016	6.12	6.08	218	11.80	0.00	0.00	89.7	3.6	3.9	1.6	<0.20	0.35	1.9	3.1	4.1	<0.50	<0.50	16000	16000	5 weeks after second in situ bio injections								
		8/10/2016	3.03	6.04	194	16.73	0.19	0.19	26.5	1.3	<0.20	<0.20	<0.20	0.84	1.6	3.8	15.0	<0.50	<0.50	11000	11000	4 months after second in situ bio injections								
		11/11/2016	4.97	6.85	285	17.0	0.14	0.14	27.5	1.7	6.8	1.6	0.43	<0.050	2.2	4.8	15.0	<3.2	<1.0	13000	13000	6 months after second in situ bio injections								
		3/10/2017	4.46	6.23	11.58	0.52	0.8	0.8	6.1	10.0	17	16.0	0.47	0.60	28	3.1	57.0	<9.2	<1.1	13000	13000	12 months after second in situ bio injections								
		5/28/2014	6.75	6.51	1164	16.2	0.82	0.00	276	1.0	<1.0	<1.0	<1.0	1.0	19	20	16.0	<1.0	<1.0									Baseline		
		8/13/2014	6.71	6.76	611	22.8	0.56	0.00	2.0	2.23	0.21	<0.20	<0.20																5 weeks after second chem-ox injection	
		12/17/2014	6.08	6.30	223	10.9	0.12	0.00	4.5	0.22	0.20	<0.20	<0.20																6 months after second chem-ox injection	
		3/30/2015	6.58	6.00	366	12.5	0.12	0.00	<45.5	0.3	<0.20	<0.20	<0.20																	5 weeks after first in situ bio injections
		7/8/2015	5.96	389	20.4	0.13	0.00	0.00	<39.8	0.37	0.26	0.49	<0.20																	6 months after first in situ bio injections
12/7/2016	6.54	262	8.64	8.48	0.00	0.00	72.5	1.4	<0.20	<0.20	<0.20																	12 months after first in situ bio injections		
8/13/2016	3.78	6.84	139	14.8	0.00	0.00	48	0.5	0.5	0.8	<0.20	<0.20	0.8	1.9	3.1	4.1	<0.50	<0.50	14000	14000	10 months after second in situ bio injections									
3/9/2017	3.91	7.08	258	10.80	0.56	0.56	<80.5	0.38	0.27	0.66	<0.20																	10 months after second in situ bio injections		
6/13/2014	6.18	5.70	736	17.0	0.60	0.60	281	9.90	<0.20	<0.20	<0.20	2.0	24	9.2	48.6	<1.2	<1.1											2 weeks after first chem-ox injection		
8/18/2014	6.02	5.75	414	21.6	0.37	0.37	0.29	0.20	<0.20	<0.20	<0.20																	4 weeks after second chem-ox injection		
12/11/2014	5.2	5.65	469	14.0	0.48	0.48	1.3	<0.20	<0.20	<0.20	<0.20																	5 months after second chem-ox injection		
1/28/2015	5.56	6.34	352	12.5	0.00	0.00	<94.8	<0.20	<0.20	<0.20	<0.20																	5 weeks after first in situ bio injections		
4/20/2015	5.27	5.20	297	22.3	0.19	0.19	71.7	<0.20	<0.20	<0.20	<0.20																	6 months after first in situ bio injections		
10/26/2015	7.17	6.16	182	17.2	0.10	0.10	48.9	3.0	<0.20	<0.20	<0.20																	9 months after first in situ bio injections		
12/9/2016	5.94	199	10.86	0.00	0.00	0.00	101.6	0.87	<0.20	<0.20	<0.20																	12 months after first in situ bio injections		
8/11/2016	4.41	6.13	278	18.36	1.40	1.40	<29.6	3.1	0.36	0.42	0.26																	4 months after second in situ bio injections		
3/9/2017	3.94	7.48	245	11.33	0.91	0.91	<156.4	14.0	<0.20	<0.20	<0.20																		10 months after second in situ bio injections	
6/10/2014	5.53	6.63	459	14.9	0.70	0.70	269	79	<0.40	<0.40	<0.40	3.2	9.4	<1.0	<1.0	<1.0	<1.0	<1.0										4 weeks after first chem-ox injection		
8/17/2014	5.86	6.3	308	18.6	1.85	1.85	80	<0.40	<0.40	<0.40	<0.40																		5 weeks after second chem-ox injection	
12/12/2014	5.01	6.80	263	15.5	2.40	2.40	81	<0.40	<0.40	<0.40	<0.40																		6 months after second chem-ox injection	
4/22/2015	5.31	6.39	192	18.44	56.2	56.2	65	<0.40	<0.40	<0.40	3.5	8.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0											5 weeks after first in situ bio injections	
7/22/2015	5.75	203	18.99	3.6	0.0	0.0	118.2	0.7	<0.40	<0.40	<0.40	3.4	8.9	<1.0	<1.0	<1.0	<1.0	<1.0											6 months after first in situ bio injections	
10/22/2015	6.92	5.84	189	17.45	0.00	0.00	69.4	2.7	<0.40	<0.40	<0.40	3.9	9.4	<1.0	<1.0	<1.0	<1.0	<1.0												9 months after first in situ bio injections
2/22/2016	6.21	11.18	14.71	5.99	0.0	0.0	60.1	6.5	<0.40	<0.40	<0.40	3.3	8.8	<1.0	<1.0	<1.0	<1.0	<1.0											12 months after first in situ bio injections	
5/11/2016	5.51	6.43	229	17.88	0.00	0.00	71.9	0.9	<0.40	<0.40	<0.40	3.6	9.0	<1.0	<1.0	<1.0	<1.0	<1.0												4 months after second in situ bio injections
8/11/2016	4.35	5.84	269	17.58	0.85	0.85	2.8	4.6	0.44	1.2	0.68	0.38	0.7	1.7	2200	<4.4	<3.4	14000	14000	6 months after second in situ bio injections										
11/14/2016	4.2	6.32	204	17.7																										

Table 2-0
Ultra Custom Care Cleaners Site
Ground Water Analytical Data
(all results in micrograms per liter (µg/L) except as noted)

Sample Location	Screened Depth (ft bgs)	Sample Date	Depth to Water (ft bgs)	pH (units)	Conductivity (µS)	Temperature (°C)	Diss. Oxygen (mg/L)	Fe ²⁺ (mg/L)	Redox Potential (millivolt)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	[cis] 1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Organic Carbon (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Sodium (µg/L)	Dissolved Sodium (µg/L)	Chloride Reductant (vca) 1.0 Gene Copies/L				
																							5	5	16 (B)	6.2
MTCA Method A/B Clean-up Level Table 720 - WAC 173-340-900)		2/22/2015	8.38	7.89	349	14.2	2.63																			
		3/16/2015	8.48	6.68	395	14.8	NA																			
		8/14/2014	7.51	6.27	347	14.3	NA																	5 weeks after in situ bio injections		
		9/15/2014	7.95	6.13	341	20.0	3.56																		2 weeks after second injection	
		10/8/2014	8.23	6.55	319	17.7	3.48																			
		10/17/2014	8.51	6.41	355	17.1	2.85																			2 weeks after second injection
		11/3/2014	7.83	6.09	325	16.1	2.06																			
		11/14/2014	8.51	6.14	280	15.1	3.67																			
		11/21/2014	8.99	5.86	299	13.8	3.40																			
		12/18/2014	10.44	6.80	674	16.8	2.34																			
1/9/2015	10.50	6.61	437	12.9	4.84																					
2/12/2015	9.33	5.71	312	12.9	7.67																					
3/16/2015	9.42	6.42	391	13.2	NA																					
6/3/2014	7.11	7.12	742	14.4	0.03																					
8/14/2014	7.64	6.93	421	15.6	1.46																					
9/15/2014	8.04	6.89	4.9	18.2	0.72																					
10/8/2014	8.49	7.26	412	16.0	0.74																					
10/17/2014	8.55	6.81	410	16.9	0.72																					
11/3/2014	8.06	6.14	429	15.7	0.32																					
11/14/2014	8.93	6.72	396	14.8	1.96																					
11/21/2014	9.09	6.10	353	13.9	5.78																					
12/18/2014	10.54	6.55	417	16.1	1.01																					
1/9/2015	10.65	6.43	386	14.5	2.35																					
2/12/2015	9.34	6.80	369	13.4	3.07																					
3/16/2015	9.48	7.24	698	13.9	NA																					
3/17/2014	8.26	8.11	698	11.4	4.77																					
6/4/2014	7.21	6.05	862	14.4	2.80																					
8/19/2014	7.64	6.15	356	19.6	11.44																					
9/16/2014	8.89	6.20	353	19.3	4.18																					
10/17/2014	8.58	6.08	381	17.8	7.27																					
11/3/2014	8.83	6.17	405	16.2	2.98																					
11/14/2014	8.55	6.09	432	14.9	6.67																					
11/21/2014	8.91	5.74	516	14.2	7.98																					
12/18/2014	10.33	6.11	414	15.1	7.31																					
1/9/2015	10.30	6.68	539	12.4	2.15																					
2/12/2015	9.18	6.82	422	13.2	5.86																					
3/16/2015	9.42	6.59	412	13.8	7.88																					
9/19/2014	7.72	6.12	319	18.5	4.44																					
10/17/2014	8.70	6.18	345	17.6	3.62																					
10/17/2014	8.69	6.07	353	16.6	3.24																					
11/3/2014	8.14	6.10	434	16.0	2.25																					
11/14/2014	8.68	6.40	315	1.2	3.68																					
11/21/2014	9.14	5.83	315	14.1	4.61																					
12/18/2014	10.46	6.27	332	16.2	3.98																					
1/9/2015	10.90	6.55	414	15.2	2.34																					
2/12/2015	9.40	5.40	297	15.6	4.52																					
3/24/2015	9.58	6.23	196	12.4	5.20																					
5/11/2014	8.69	6.25	984	13.0	5.30	0.0	-168	6.0																		
6/4/2014	8.75	6.31	817	13.9	6.42																					
8/19/2014	9.49	6.26	693	20.9	27.23																					
9/16/2014	8.89	6.18	576	19.1	5.82																					
10/8/2014	10.39	6.20	562	18.8	3.99																					
10/17/2014	10.39	6.58	533	18.1	4.62																					
11/3/2014	8.81	7.43	403	17.0	2.03																					
11/14/2014	10.31	6.50	290	15.4	4.31																					
11/21/2014	10.74	7.00	299	15.2	5.42																					
12/18/2014	11.80	6.38	413	17.9	3.83																					
1/9/2015	11.87	6.45	423	13.0	5.05																					
2/12/2015	10.93	8.66	474	13.3	6.28																					
3/16/2015	11.13	6.14	271	12.9	6.58																					
5/13/2014	8.58	6.56	598	14.9	3.38	0.0	+160																			
6/4/2014	8.60	6.26	576	14.0	4.21																					
8/19/2014	9.15	6.12	417	18.7	4.07																					
9/16/2014	8.51	6.21	324	18.7	3.00																					
10/8/2014	10.08	6.21	309	18.0	3.79																					
10/17/2014	10.94	6.24	305	16.8	3.13																					
11/3/2014	8.41	6.01	310	16.6	1.90																					
11/14/2014	9.96	6.56	245	15.5	2.80																					

Sample Location	Screened Depth (ft bgs)	Sample Date	Depth to Water (ft bgs)	pH (units)	Conductivity (µS)	Temperature (°C)	Diss. Oxygen (mg/L)	Fe ²⁺ (mg/L)	Redox Potential (millivolt)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	(cis) 1,2-Dichloroethene (µg/L)	Vinyl Chloride (µg/L)	Nitrates (mg/L)	Sulfate (mg/L)	Total Organic Carbon (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Sodium (µg/L)	Dissolved Sodium (µg/L)	Chloride Reductase (vCRA) Gene Copies/Liter	
MTCA Method A/B Cleanup Level Table 720-7 WAC 173-340-900) 11/21/2014 10.32 5.52 223 14.8 4.11 12/18/2014 11.49 6.22 317 17.3 2.53 1/9/2015 11.68 6.49 386 13.0 4.91 2/12/2015 10.57 8.88 282 13.5 6.34 5/11/2014 6.15 6.30 475 13.4 6.28 0.0 21 4.8 -0.20 -0.20 -0.20 -0.20 3.6 42 1.4 0.93 <0.50 <0.50 6/5/2014 8.22 6.12 601 14.4 5.45 6/14/2014 8.36 6.22 478 18.3 24.99 9/15/2014 8.73 6.08 630 21.1 6.91 5/14/2014 4.28 6.42 544 15.1 1.88 0.0 1 -0.20 -0.20 -0.20 -0.20 1.7 16 <1.0 2.5 0.63 <0.50 6/29/14 6.73 6.27 761 15.5 5.25 8/15/2014 7.13 6.43 261 18.8 6.31 9/18/2014 7.24 6.28 282 18.7 3.88 12/17/2014 8.30 7.15 237 14.0 1.87 3/24/2015 7.83 6.78 205 13.8 26.76 143.5 7/17/2015 5.65 205 17.6 13.30 54.6 -0.20 -0.20 -0.20 -0.20 9/23/2015 9.04 6.00 221 17.8 7.02 70.7 2/1/2016 5.68 154 13.09 3.41 0.0 79.5 -0.20 -0.20 -0.20 -0.20 2.5 14 <1.0 2.3 <0.50 <0.50 12000 11000 9/23/2016 7.48 5.36 218 16.05 1.49 182.3 -0.20 -0.20 -0.20 -0.20 2.2 18 1.6 <0.50 <0.50 <0.50 12000 8/11/2016 7.55 5.58 224 16.72 0.96 27.5 -0.20 -0.20 -0.20 -0.20 2.2 18 1.6 <0.50 <0.50 <0.50 12000 11/14/2016 7.10 6.08 223 17.20 0.97 48 0.22 -0.20 -0.20 -0.20 -0.20 3.1 14 1.2 19.0 <0.50 <0.50 10000 10000 3/12/2017 5.92 6.27 148 11.60 1.00 0.2 47.9 0.86 -0.20 -0.20 -0.20 -0.20 3.1 14 1.2 19.0 <0.50 <0.50 10000 10000 6/29/14 6.28 6.11 472 14.4 2.89 0.81 -0.20 -0.20 -0.20 -0.20 8/15/2014 6.24 6.40 264 17.2 3.88 0.67 -0.20 -0.20 -0.20 -0.20 9/18/2014 6.33 6.37 280 17.8 2.49 0.89 -0.20 -0.20 -0.20 -0.20 5/13/2014 5.43 6.31 628 14.1 0.15 0.0 -288 2.2 -0.20 -0.20 -0.20 -0.20 0.38 10 1.9 34 3.9 2.0 6/26/14 5.97 6.17 536 13.9 6.48 2.2 -0.20 -0.20 -0.20 -0.20 8/18/2014 5.56 6.13 281 18.9 5.9 2.5 -0.20 -0.20 -0.20 -0.20 9/16/2014 5.74 6.20 291 17.5 6.89 2.8 -0.20 -0.20 -0.20 -0.20 12/17/2014 5.90 6.16 282 13.8 1.59 4.6 -0.20 -0.20 -0.20 -0.20 3/30/2015 5.90 5.27 261 14.4 2.75 116.4 2.4 -0.20 -0.20 -0.20 -0.20 7/17/2015 5.64 257 19.4 1.09 33.9 3.4 -0.20 -0.20 -0.20 -0.20 2/29/2016 6.16 203 13.6 2.2 76 4.1 -0.20 -0.20 -0.20 -0.20 8/12/2016 5.28 5.50 284 16.60 1.02 44.5 4.3 -0.20 -0.20 -0.20 -0.20 3/9/2017 2.97 7.44 204 11.57 0.89 164.4 4.1 -0.20 -0.20 -0.20 -0.20 5/28/2014 6.35 6.52 451 15.5 0.16 0.0 241 0.32 -0.20 0.30 -0.20 1.6 16 <1.0 2.04 <0.50 <0.50 9/16/2014 6.78 7.06 207 17.5 1.20 4.2 -0.20 -0.20 -0.20 -0.20 11/10/2016 5.67 6.36 6 16.0 5.20 162.5 -0.20 -0.20 -0.20 -0.20 11/10/2016 4.48 6.71 4 15.8 4.46 224.9 -0.20 -0.20 -0.20 -0.20 																							
Investigation Results by Others																							
Farallon Consulting																							
FB-9	22	6/23/2016	22							0.88	<0.20	<0.20	<0.20									Reconnaissance ground water sample	
	27	6/23/2016	27							0.7	<0.20	<0.20	<0.20									Reconnaissance ground water sample	
	32	6/23/2016	32							5.8	<0.20	<0.20	<0.20									Reconnaissance ground water sample	
QC Samples																							
QUP 1	5/11/2014																						Duplicate of UCCMW-17 9/11/2014
QUP 2	5/14/2014																						Duplicate of UCCMW-120 6/14/14
QUP 01	6/20/14																						Duplicate of MW-3R 6/9/14
QUP 6-5-14	6/26/14																						Duplicate of UCCMW-23 6/6/14
FB Blank	5/15/2014																						
FB Blank	6/29/14																						
FB Blank	6/29/14																						
FB Blank	9/15/2014																						
FB Blank	9/17/2014																						
QUP 1	9/15/2014																						Duplicate of UCCMW-15 9/15/2014
QUP 2	9/16/2014																						Duplicate of UCCMW-4 9/19/2014
QUP 10-14	10/8/2014																						Duplicate of UCCMW-120 10/8/2014
FB Blank	10/8/2014																						
QUP 1017-14	10/17/2014																						
FB	11/3/2014																						
QUP	11/3/2014																						Duplicate of UCCMW-135 11/3/2014
FB	11/14/2014																						
QUP	11/14/2014																						Duplicate of UCCMW-140 11/14/2014
QUP 1211-14	11/21/2014																						Duplicate of UCCMW-135 on 11/21/2014
FB	12/18/2014																						
QUP 10-14	12/18/2014																						
QUP 21215	2/12/2015																						Duplicate of UCCMW 130 on 2/12/2015
QUP	3/20/2015																						
QUP	3/24/2015																						Duplicate of UCCMW 17 on 3/24/2015
FB	7/17/2015																						

Table 2-O
Ultra Custom Care Cleaners Site
Ground Water Analytical Data
(all results in micrograms per liter (µg/L) except as noted)

Sample Location	Screened Depth, (ft bgs)	Sample Date	Depth to Water (ft bgs)	pH (units)	Conductivity (uS)	Temperature (°C)	Diss. Oxygen (mg/L)	Fe ²⁺ (mg/L)	Redox Potential (millivolt)	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)	Vinyl Chloride (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Organic Carbon (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Sodium (ug/L)	Dissolved Sodium (ug/L)	Chloride Reductase (vCRA) Gene Copies/Liter	
MTCA Method A/B Cleanup Level (Table 720-1, WAC 173-340-900)																							
FB		7/22/2015								5	5	16 (B)	0.2	NA	NA	NA	NA	NA	NA				
UCCDUP-102/115		10/21/2015								<0.20	<0.20	<0.20	<0.20										Duplicate of UCCMW-19 on 10/21/15
FB		10/21/2015								<0.20	<0.20	41	<0.20										
FB		10/21/2015								<0.20	<0.20	<0.20	<0.20										
FB		10/26/2015								<0.20	<0.20	<0.20	<0.20										
DUJ-0128		1/28/2016								5.2	<4.0	688	12										Duplicate of MW-1 on 1/28/2016
FB		1/28/2016								<0.20	<0.20	<0.20	<0.20										
DUJ-0504		5/4/2016								3.8	2.1	310	12	0.19	2200	<25	6100	<67	5.2	300000			Duplicate of MW-1 on 5/4/2016
FB		5/4/2016								<0.20	<0.20	<0.20	<0.20										
DUJ-0812		8/12/2016								<0.20	<0.20	140	2.6	0.053	7.4	39	7200	<81	<8.4	24000			Duplicate of MW-19 on 8/12/2016
FB		8/12/2016								<0.20	<0.20	<0.20	<0.20										
DUJ-11-11-16		11/11/2016								1.7	6.6	16	0.43	0.06	22	4.7	160	<2.3	<0.90	12000	13000		Duplicate of MW-8 on 11/11/2016
DUJ-0313		3/13/2017								23	2.9	36	2.1										Duplicate of IN-2 on 3/13/2017
FB		3/8/2017								<0.20	<0.20	<0.20	<0.20										

< - Analyte not detected at laboratory's listed reporting limit

Bold indicates analyte detected at a concentration greater than the laboratory reporting limit

Yellow highlight indicates analyte meets or exceeds MTCA cleanup level

Blank - not analyzed or not measured at that sampling location

NA - Not applicable

1 - The MTCA Method A ground water cleanup level for gasoline range hydrocarbons is 800 µg/L. If benzene is present; the cleanup level is 1000 µg/L. If benzene is not detectable

Table 2P
February 2018 HVOC Data, Upgradient of Source Area

Sample Location	Screened Depth (ft bgs)	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)	Vinyl Chloride (µg/L)
MTCA Method A/B Cleanup Level		5	5	16 (B)	0.2
UCCB-11-15'	15-20	2.8	<0.20	<0.20	<0.20
UCCB-12-15'	15-20	2.9	<0.20	<0.20	<0.20
UCCB-13-16'	15-20	4.3	<0.20	<0.20	<0.20
UCCB-14-17	16-21	3.2	<0.20	<0.20	<0.20
UCCB-14-29'	29-34	<0.20	<0.20	<0.20	<0.20
UCCB-15-11'	10-15	7.8	<0.20	0.22	<0.20
UCCB-16-11.5'	10-15	1.5	0.35	18	0.43
UCCB-17-17	16-21	2.0	<0.20	<0.20	<0.20
UCCB-18-17.5	15-20	3.8	<0.20	<0.20	<0.20
UCCMW-15	9-19	2.0	<0.20	<0.20	<0.20

Table 2Q - Historical vs Current HVOC Data

Sample Location	Screened Depth (ft bgs)*	Sample Date	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)	Vinyl Chloride (µg/L)
MTCA Method A/B Cleanup Level			5	5	16 (B)	0.2
B-12	20-24*	10/25/2004	8	<2	<2	<2
UCCB-11-15'	15-20*	2/13/2018	2.8	<0.20	<0.20	<0.20
B-11	20-24*	10/25/2004	18	<2	<2	<2
UCCB-12-15'	15-20*	2/13/2018	2.9	<0.20	<0.20	<0.20
CH-B5	20-24*	9/29/2011	7.5	<0.20	<0.20	<0.20
UCCB-13-16'	15-20*	2/13/2018	4.3	<0.20	<0.20	<0.20
B-10	20-24*	10/25/2004	23	<2	<2	<2
UCCB-14-17	16-21*	2/13/2018	3.2	<0.20	<0.20	<0.20
UCCB-14-29'	29-34*	2/13/2018	<0.20	<0.20	<0.20	<0.20
G-3	13-15*	8/4/2015	11	<0.20	<0.20	<0.20
UCCB-15-11'	10-15*	2/14/2018	7.8	<0.20	0.22	<0.20
G-4	19-20*	8/3/2015	9.8	<0.20	<0.20	<0.20
UCCB-16-11.5'	10-15*	2/14/2018	1.5	0.35	18	0.43
G-5	19-20*	8/3/2015	5.1	<0.20	<0.20	<0.20
UCCB-17-17	16-21*	2/13/2018	2.0	<0.20	<0.20	<0.20
UCCMW-15	9-19	9/15/2014	2.8	<0.20	<0.20	<0.20
UCCMW-15	9-19	2/13/2018	2.0	<0.20	<0.20	<0.20

* Land elevations have changed over time, see discussion below

TABLE 2R
ULTRA CUSTOM CARE CLEANERS GROUND WATER SAMPLE ANALYTICAL DATA
Source: Environmental Associates, 2016
(all results in micrograms per kilogram (µg/Kg) except as noted)

Boring	Tetrachloroethene (PCE)	Trichloroethene (TCE)	(cis) 1,2 Dichloroethene	(trans) 1,2 Dichloroethene	Vinyl Chloride
B1-Water	<1	<1	<1	<1	<0.2
B2-Water	<1	<1	<1	<1	<0.2
B3-Water	<1	<1	<1	<1	<0.2
B4-Water	1.5	<1	<1	<1	<0.2
B5-Water	<1	<1	<1	<1	<0.2
B6-Water	<1	<1	<1	<1	<0.2
B7-Water	<1	<1	<1	<1	<0.2
B8-Water	<1	<1	<1	<1	<0.2
B9-Water (incorrectly labeled as B10-Water)	<1	<1	<1	<1	<0.2
B10-Water	<1	<1	<1	<1	<0.2
B11-Water	<1	<1	<1	<1	<0.2
B12-Water	<1	<1	<1	<1	<0.2
B13-Water	<1	<1	<1	<1	<0.2
B14-Water	<1	<1	<1	<1	<0.2
B15-Water	<1	<1	<1	<1	<0.2
B16-Water	<1	<1	<1	<1	<0.2
B17-Water	<1	<1	<1	<1	<0.2
B18-Water	<1	<1	<1	<1	<0.2
B19-Water	<1	<1	<1	<1	<0.2
B20-Water	<1	<1	<1	<1	<0.2
B21-Water	<1	<1	<1	<1	<0.2
B22-Water	<1	<1	<1	<1	<0.2
Reporting Limit ³	1	1	1	1	0.2
Existing Cleanup Level ⁴	5 (A)	5 (A)	16 (B)	160 (B)	0.2 (A)

Notes:
1- "ND" denotes analyte not detected at or above listed Reporting Limit.
2- "NA" denotes sample not analyzed for specific analyte.
3- "Reporting Limit" represents the laboratory lower quantitation limit.
4- Method A or B groundwater cleanup levels as published in the Model Toxics Control Act (MTCA) 173-340-WAC, amended May 2014.
Bold and Italics denotes concentrations above existing MTCA Method A groundwater cleanup levels.

Strataprobe Boring	Gasoline (TPH)	Diesel (TPH)	Heavy Oil (TPH)	Benzene	Toluene	Ethylbenzene	Total Xylenes
B4-Water	<100	<50	<250	<1	<1	<1	<3
B8-Water	<100	<50	<250	<1	<1	<1	<3
B12-Water	<100	<50	<250	<1	<1	<1	<3
B19-Water	<100	<50	<250	<1	<1	<1	<3
Reporting Limit ³	100	50	250-500	1	1	1	3
MTCA-Method-A Cleanup Levels ⁴	800 or 1000 ⁵	500	500	5	1000	700	1000

Notes:
1- "ND" denotes analyte not detected at or above listed Reporting Limit.
2- "NA" denotes sample not analyzed for specific analyte.
3- "Reporting Limit" represents the laboratory lower quantitation limit.
4- Method A groundwater cleanup levels as published in the Model Toxics Control Act (MTCA) 173-340-WAC.
5- The MTCA gasoline TPH cleanup level is 800 ppb for groundwater with benzene. Otherwise, the cleanup level is 1000 ppb.
Bold and Italics denotes concentrations above existing or proposed MTCA Method A groundwater cleanup levels.

Table 2 Notes:

MTCA A / B - Ecology MTCA Method A / B ground water cleanup levels, Chapter 173-340 WAC, shown for reference only. These cleanup levels may not apply at this site, and are provided as a screening level indication of the environmental quality of the site only.

KCIWD - King County Industrial Waste Division sanitary sewer discharge limits

< - not detected at listed reporting limit

Blank – Not Analyzed / Not Established

Bold - Analyte Detected

Bold / Shaded - Analyte exceeds cleanup level

Sample in area that was subsequently excavated

No other HVOCs were detected above laboratory reporting limits (see Appendix B for complete list of compounds analyzed).

* The Method A Ground Water cleanup levels for gasoline mixtures with benzene present is 800 µg/L and without detectable benzene is 1000 µg/L.

** - Calculated using MTCASGL11 spreadsheet tool (Ecology, 2006) and the most current input parameters recommended by Ecology (2011).

*** - No other VOCs or RCRA metals were detected above laboratory reporting limits.

**** - Common laboratory solvent that may have been introduced during sample preparation and affecting the analytical result

**TABLE 3
ULTRA CUSTOM CARE CLEANERS SITE
APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARs)**

ARAR	Applicability
Soil	
Model Toxics Control Act (WAC 173-340-740, -747)	MTCA cleanup levels are applicable to Site soil.
Groundwater	
Model Toxics Control Act (WAC 173-340-720)	MTCA cleanup levels are applicable to Site groundwater.
Surface Water	
Model Toxics Control Act (WAC 173-340-730)	MTCA cleanup levels are applicable to the Site if remedial activities cause a release to surface water.
Air	
Washington Clean Air Act and Implementing Regulations (WAC 173-400; WAC 173-460; WAC 173-490)	Applicable for excavation activities.
Model Toxics Control Act (WAC 173-340-750)	MTCA cleanup levels are applicable to the Site if remedial activities cause a release to air.
Miscellaneous	
Protection of Wetlands, Executive Order 11990 (40 CFR Part 6, Appendix A)	This Act would be potentially applicable to remedial activities at the Site.
Native American Graves Protection and Repatriation Act (43 CFR Part 10)	This Act is applicable to remedial actions at the Site because it is possible that the disturbance of Native American materials could occur as a result of work in subsurface excavations at the Site. Such materials are not known to be present at the Site, but could be inadvertently uncovered during soil removal.
National Historic Preservation Act (36 CFR Parts 60, 63, and 800)	This Act is applicable to subsurface work at the Site. No such Sites are known to be present in the area.
Washington Hazardous Waste Management Act (WAC 173-303)	This regulation is applicable to handling of contaminated media at the Site. The contamination policy allows contaminated media to be consolidated within the same area of a site without triggering Resource Conservation and Recovery Act or Washington dangerous waste regulations.
Department of Transportation of Hazardous Wastes (49 CFR 105 – 180)	Applicable to remedial activities that involve the off-site transportation of hazardous waste.
Washington Solid Waste Handling Standards (WAC 173-350)	These regulations are applicable to solid nonhazardous wastes and are relevant and appropriate to on-site remedial actions governing contaminated media management.
Washington Water Well Construction Act Regulations (WAC 173-160)	These regulations are applicable to the installation, operation, or closure of monitoring and treatment wells at the Site.

Table 4
Ultra Custom Care Cleaners Site
Cleanup Alternatives Evaluation

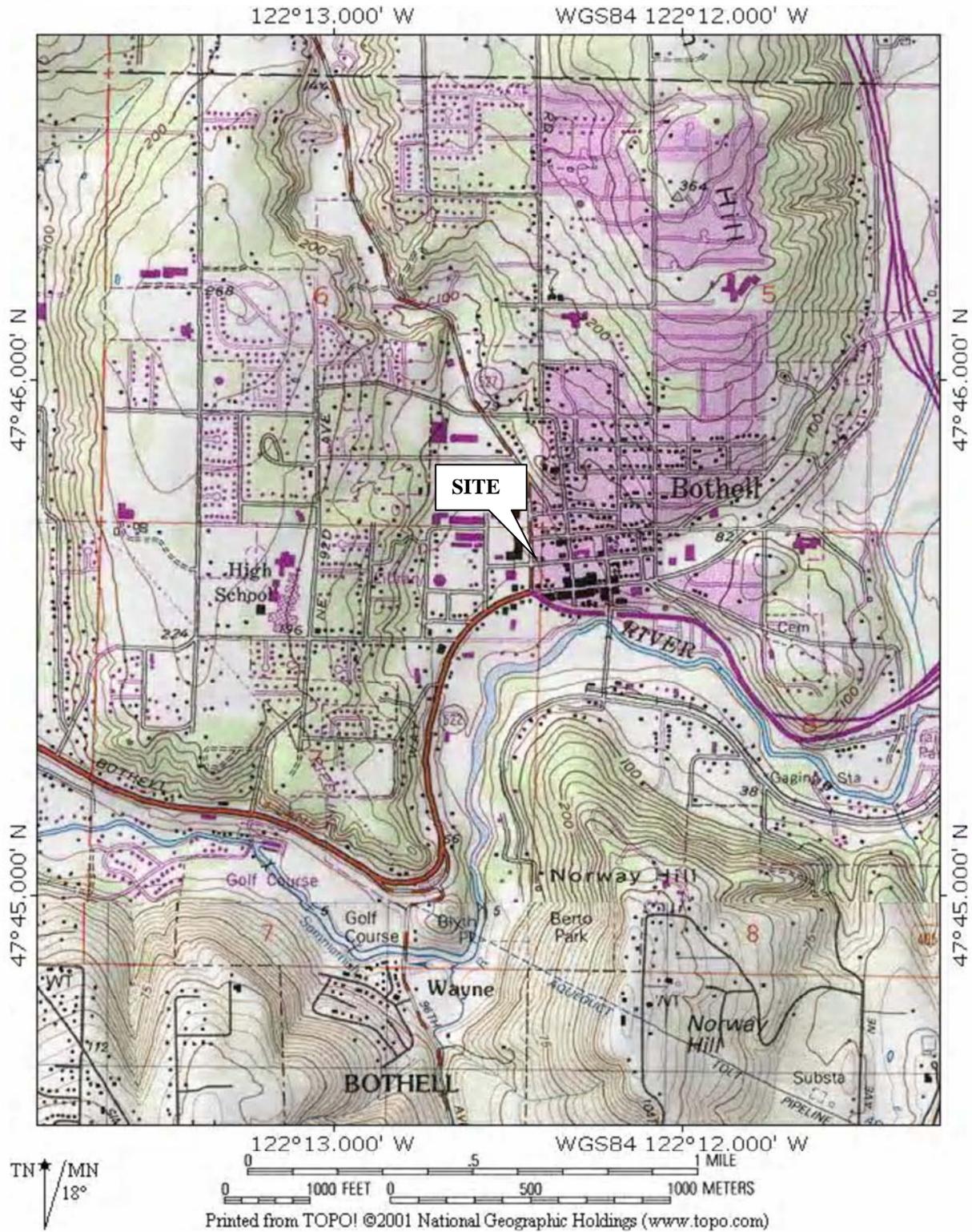
	Excavation and removal of soil, in situ bioremediation, monitored natural attenuation, engineering and institutional controls	Permeable reactive barrier/ZVI, monitored natural attenuation, engineering and institutional controls	In situ bioremediation, engineering controls, institutional controls
Threshold requirements			
Protect human health and the environment	This alternative would reduce COCs	This alternative would likely reduce COCs	This alternative would likely reduce COCs
Comply with cleanup standards	Likely	Likely	Likely
Complies with applicable state and federal laws	All alternatives would comply with applicable state and federal laws		
Provide for compliance monitoring	Yes	Yes	Yes
Other requirements			
Use permanent solutions to maximum extent practicable	This alternative is the most permanent, as it includes source removal	Yes, if the PRB is successful	Yes, if bioremediation is successful
Provide for a reasonable restoration time frame	This alternative has the shortest timeframe, as the source would be removed	Yes, if the PRB is successful	Yes, if bioremediation is successful
Consider public concerns	All alternatives would Consider public concerns		

Table 5
Disproportionate Cost Analysis Evaluation Criteria
Ultra Custom Care Cleaners Site FS
Bothell, Washington

	weight	Exc & remove, in situ bio, MNA, E&IC		PRB/ZVI, MNA, E&IC		In situ bio, ECs, ICs		No Action	
		score	value	score	value	score	value	score	value
Overall protectiveness of human health & environment	30%	5	1.5	3	0.9	3	0.9	0	0
Permanent reduction of toxicity, mobility and volume	20%	5	1	3	0.6	4	0.8	0	0
Long term effectiveness	20%	5	1	3	0.6	4	0.8	0	0
Short term risks	10%	2	0.2	3	0.3	4	0.4	5	0.5
Implementability	10%	2	0.2	3	0.3	4	0.4	5	0.5
Community acceptance	10%	2	0.2	3	0.3	3	0.3	0	0
Total score			4.1		3		3.6		1

Table 6
Disproportionate Cost Analysis
Ultra Custom Care Cleaners Site FS
Bothell Washington

	Exc & remove, in situ bio, MNA, E&IC	PRB/ZVI, MNA, E&IC	In situ bio, Ecs, ICs	No Action
Disproportionate cost analysis				
Estimated cleanup cost (\$ x 100,000)	\$14.66	\$11.07	\$5.14	0
Net Benefit	4.10	3.00	3.60	1
Incremental benefit	1.10	-0.60	2.60	0
Benefit : cost (cost-effectiveness)	0.28	0.27	0.70	
Incremental cost	\$3.59	\$5.93	\$5.14	0
Incremental benefit : incremental cost	0.31	-0.10	0.51	



SITE VICINITY

**ULTRA CUSTOM CARE CLEANERS SITE
RI/FSdCAP
BOTHELL, WASHINGTON**

FIGURE NO.

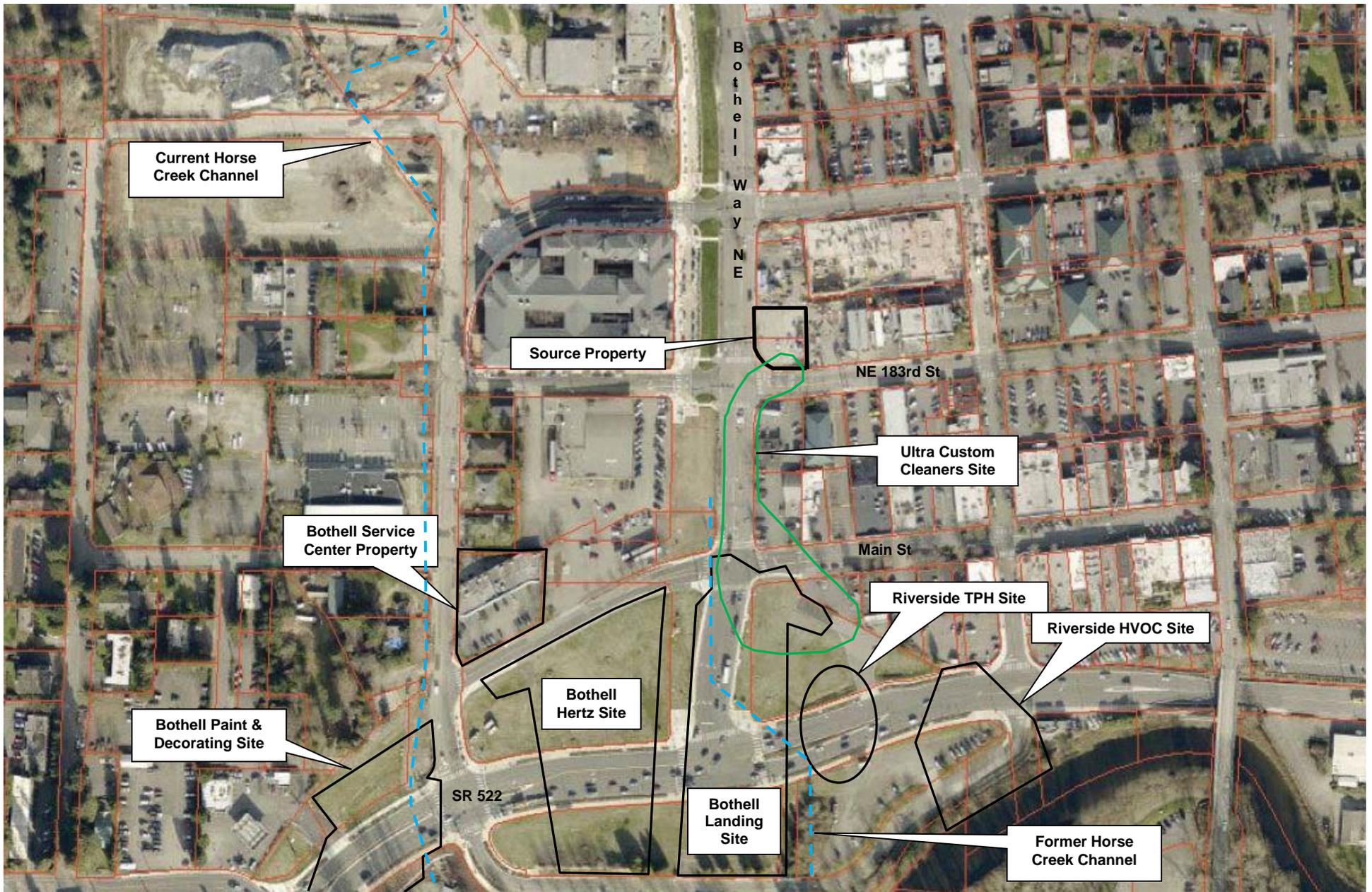
1

PROJECT NO.

2007-098



HWA GEOSCIENCES INC.



SITE LOCATION & NEARBY PROPERTIES

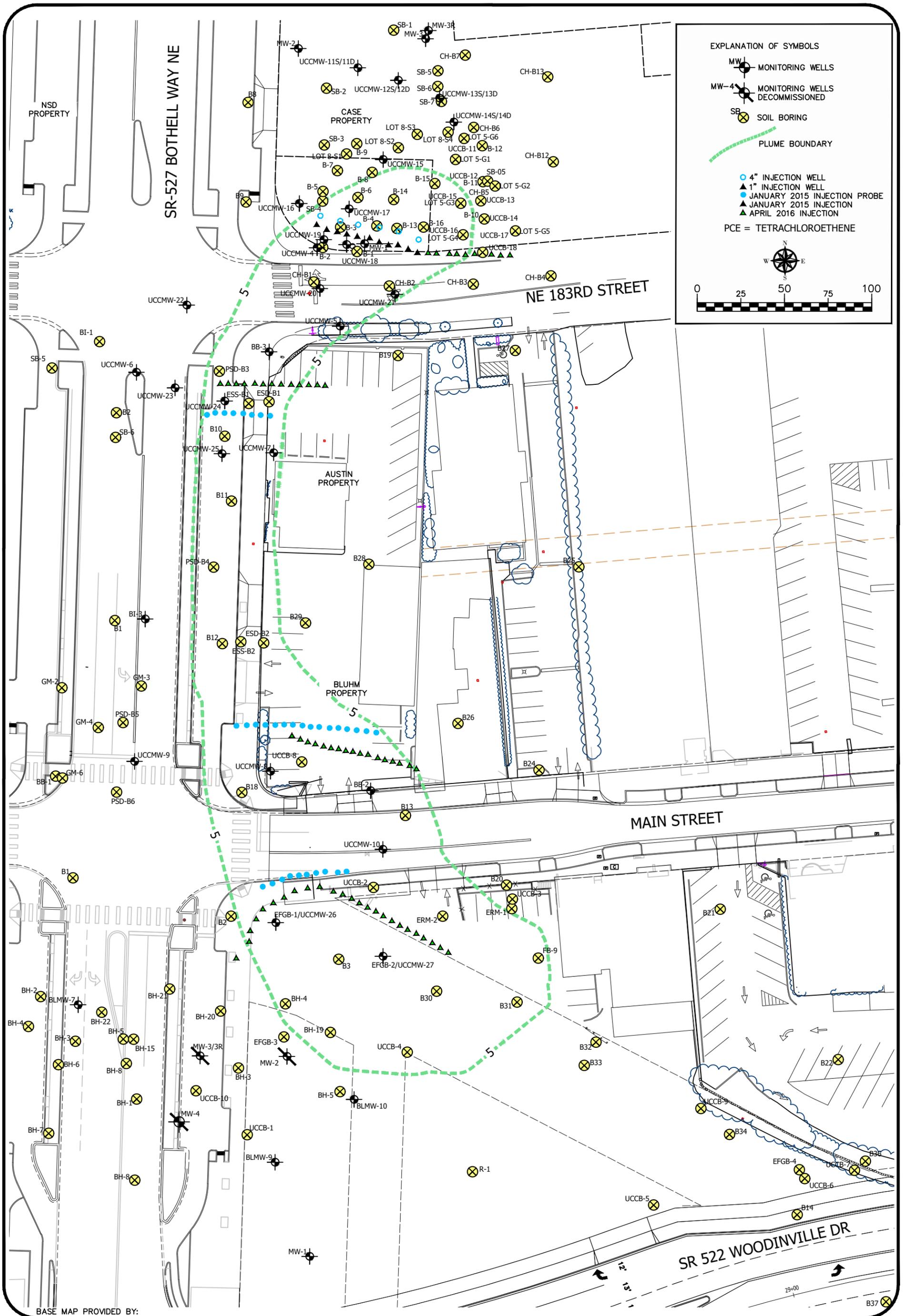
**ULTRA CUSTOM CARE CLEANERS SITE
R/FSdCAP
BOTHELL, WASHINGTON**

FIGURE NO.

2

PROJECT NO.

2007-098



BASE MAP PROVIDED BY:



HWA GeoSciences Inc.

ULTRA CUSTOM CARE CLEANERS SITE
RI/FSDCAP
BOTHELL, WASHINGTON

SITE AND
EXPLORATION
PLAN

DRAWN BY
BFM
CHECK BY
AS/NK
DATE:
08.28.2017

FIGURE #
3
PROJECT #
2007-098-21
TASK 2039



----- Property Boundary
● LOT-8-S4 2015 Boring approximate location and designation.
● PP-30 2013 Boring approximate location and designation.
● CH-B13 2011 Boring approximate location and designation.
⊕ MW-1 Monitoring well approximate location and designation.

⊕ Inj-12 Injection wells

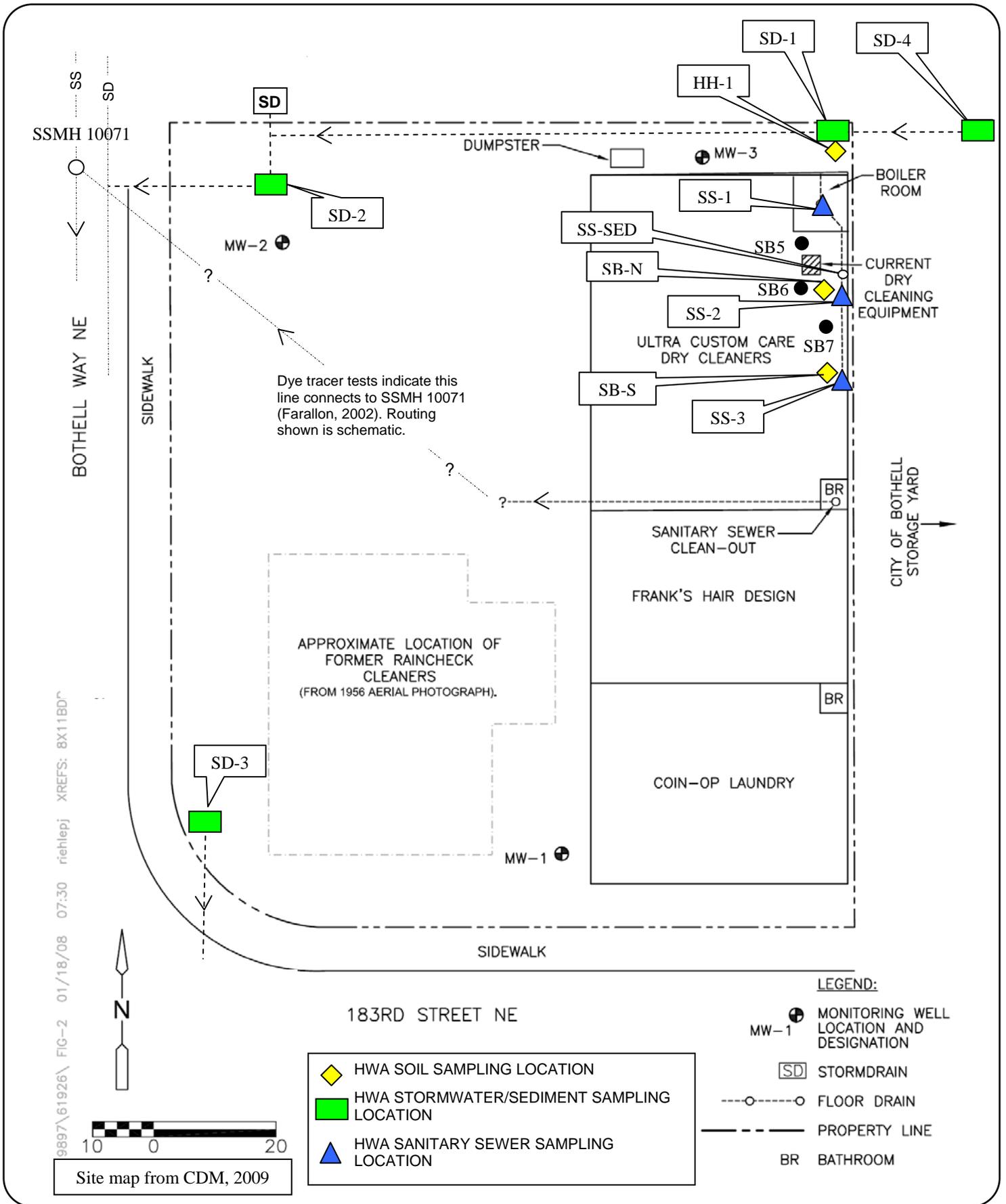


HWA GEOSCIENCES INC.

PREVIOUS INVESTIGATIONS, CASE
 PROPERTY
 ULTRA CUSTOM CARE CLEANERS SITE
 RI/FSDCAP
 BOTHELL, WASHINGTON

DRAWN BY
EFK
 CHECK BY
AS/NK
 DATE:
07.06.17

FIGURE #
4
 PROJECT #
2007-098-22
 TASK 2039



INTERIOR EXPLORATION PLAN, CASE PROPERTY

**ULTRA CUSTOM CLEANERS SITE
RI/FSdCAP
BOTHELL, WASHINGTON**

FIGURE NO.

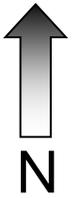
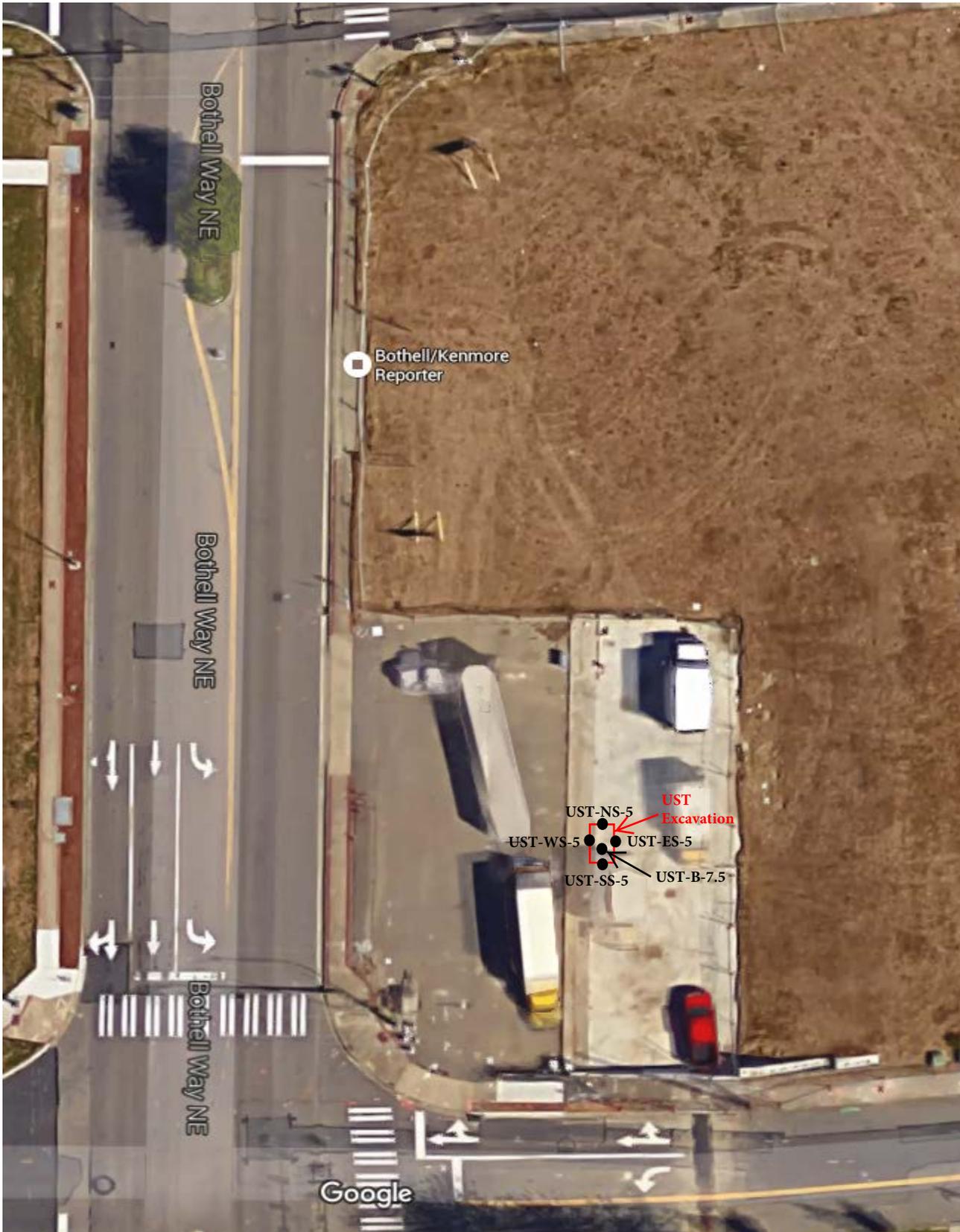
5

PROJECT NO.

2007-098



HWA GEOSCIENCES INC.



Modified from Google (2015). All features, distances and locations should be considered approximate and verified for accuracy (not to scale).



HWA GEOSCIENCES INC.

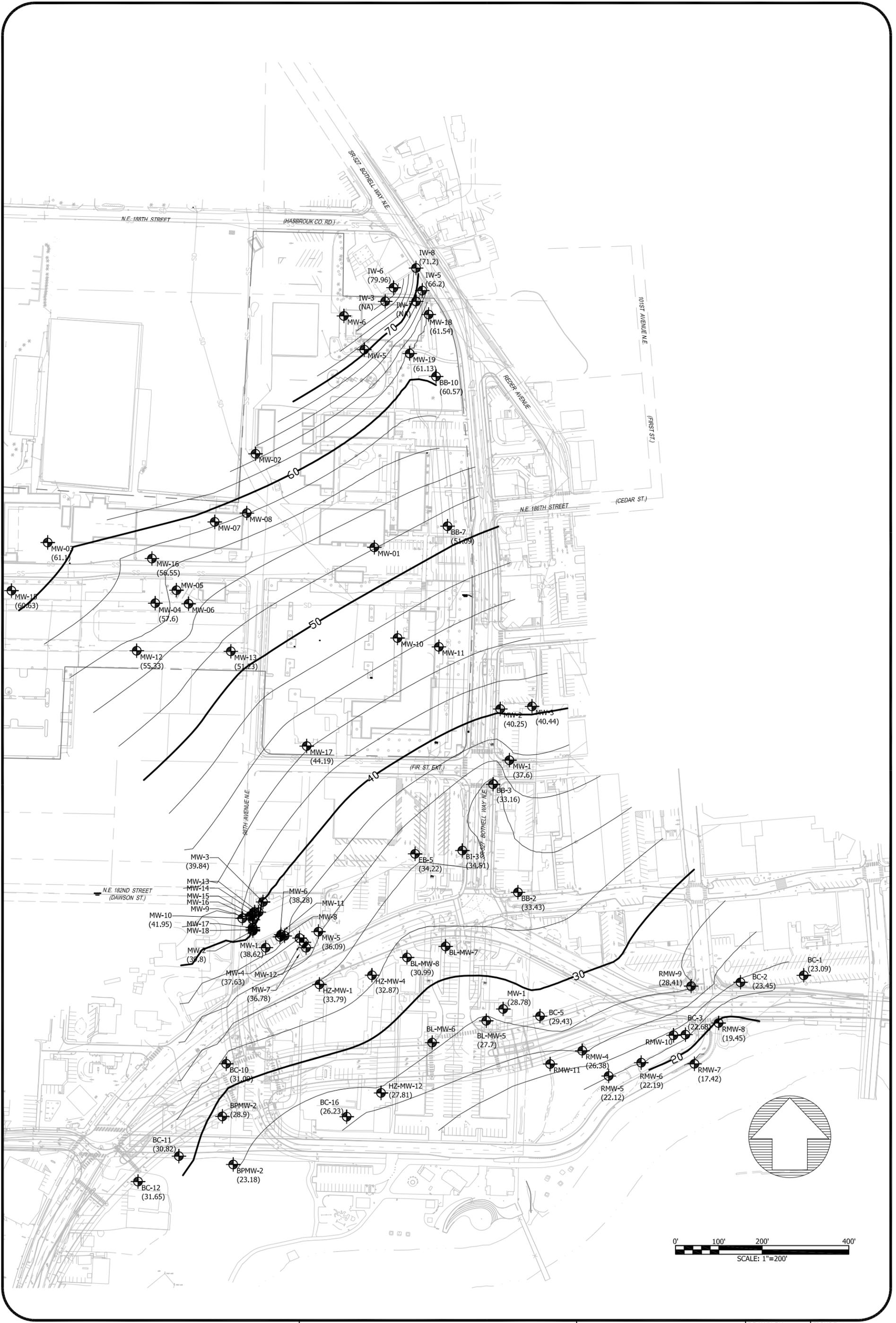
2011 GROUND WATER GRADIENT
 (revised from Terra Associates)
 ULTRA CUSTOM CARE CLEANERS SITE
 RI/FSdCAP
 BOTHELL, WASHINGTON

FIGURE NO.

7

PROJECT NO.

2007-098

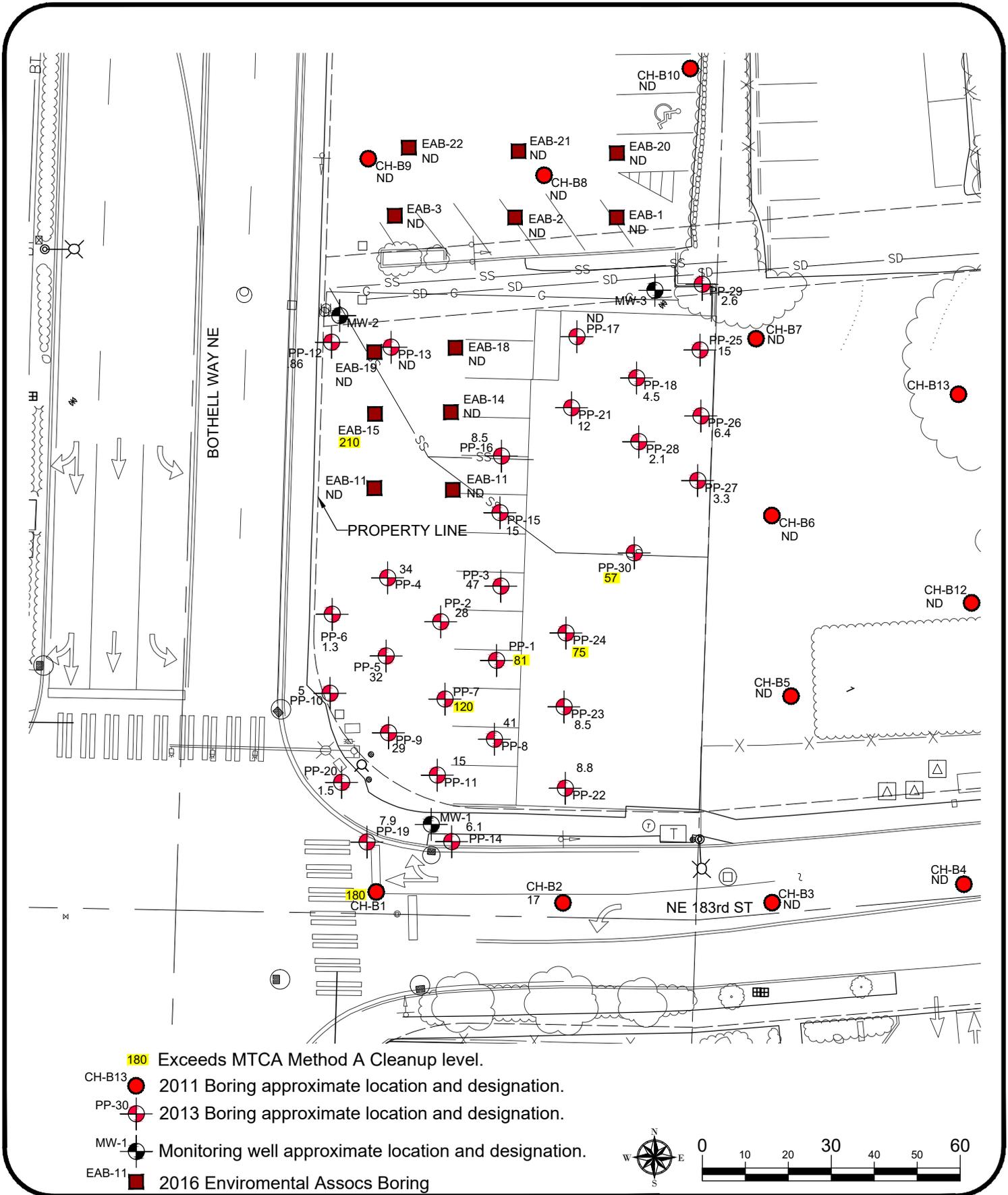


HWA GEOSCIENCES INC.

Area-Wide Gradient Study
Bothell, Washington

Ground Water Gradient
August 29-31, 2012

DRAWN BY EFK	FIGURE # 8
CHECK BY VA	PROJECT #
DATE: 09.07.12	2012-098-21 TASK 950



180 Exceeds MTCA Method A Cleanup level.

CH-B13 ● 2011 Boring approximate location and designation.

PP-30 ● 2013 Boring approximate location and designation.

MW-1 ● Monitoring well approximate location and designation.

EAB-11 ■ 2016 Environmental Assocs Boring

PCE in Soil (ug/L)

DRAWN BY
BM

FIGURE #
9

CHECK BY
AS

PROJECT #

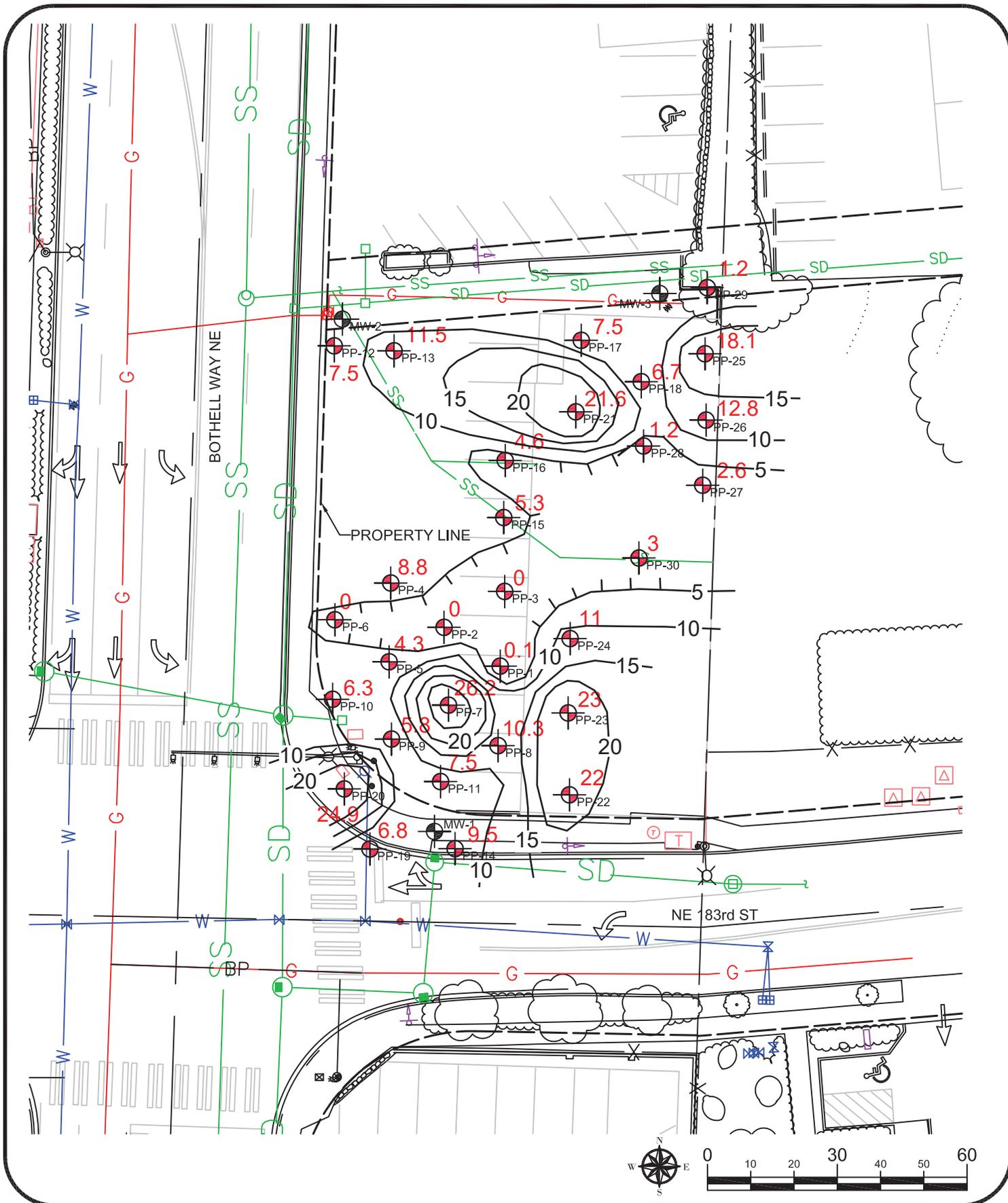
DATE:
04.12.18

2007-098-22
TASK 996



HWA GEOSCIENCES INC.

ULTRA CUSTOM CARE CLEANERS SITE
REMEDIAL INVESTIGATION
BOTHELL, WASHINGTON



HWA GEOSCIENCES INC.

Soil Gas Organic Vapor (ppm)

ULTRA CUSTOM CARE CLEANERS SITE
REMEDIAL INVESTIGATION
BOTHELL, WASHINGTON

DRAWN BY
EFK

CHECK BY
AS

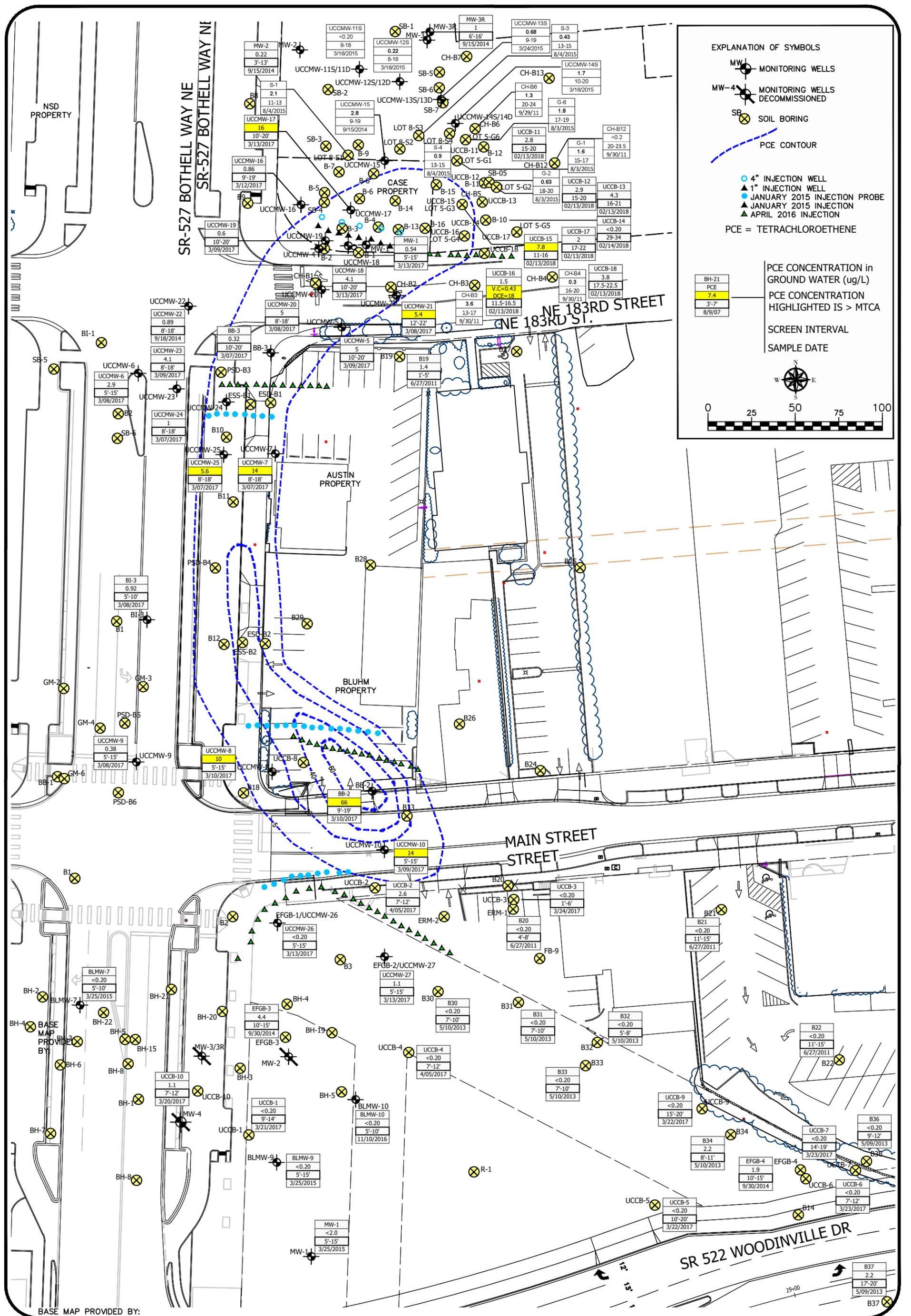
DATE:
11.04.13

FIGURE #

10

PROJECT #

2007-098-22
TASK 996



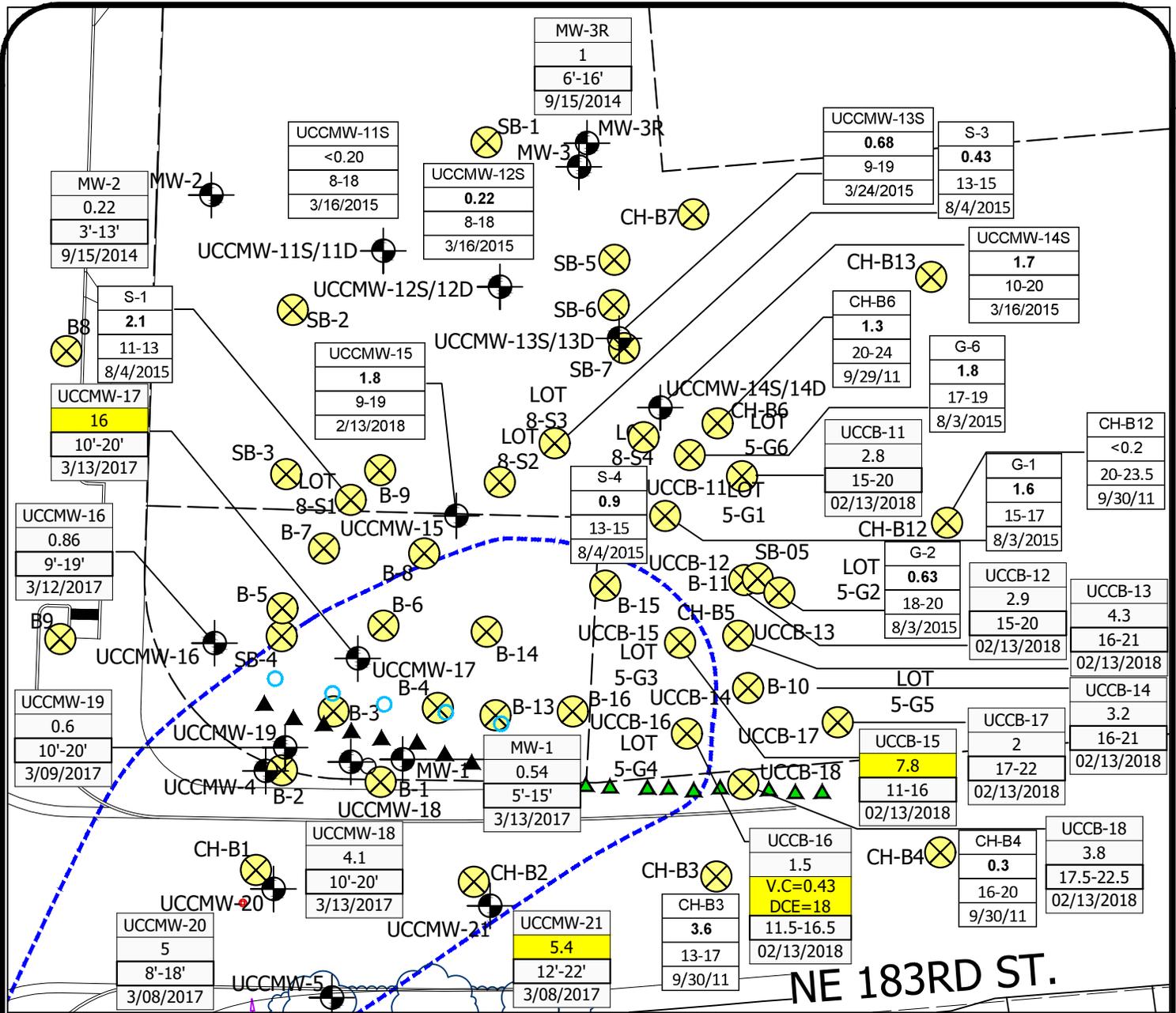
HWA GeoSciences Inc.

ULTRA CUSTOM CARE CLEANERS SITE
 RI/FSDCAP
 BOTHELL, WASHINGTON

PCE in Ground
 Water, 2011-2017
 (Shallow)

DRAWN BY
 BFM
 CHECK BY
 AS/NK
 DATE:
 08.28.2017

FIGURE #
11
 PROJECT #
 2007-098-21
 TASK 2039



EXPLANATION OF SYMBOLS

- MW-1 MONITORING WELLS
- MW-4 MONITORING WELLS DECOMMISSIONED
- SB SOIL BORING
- PCE 5 ug/L CONTOUR
- 4" INJECTION WELL
- 1" INJECTION WELL
- JANUARY 2015 INJECTION PROBE
- JANUARY 2015 INJECTION
- APRIL 2016 INJECTION

PCE = TETRACHLOROETHENE

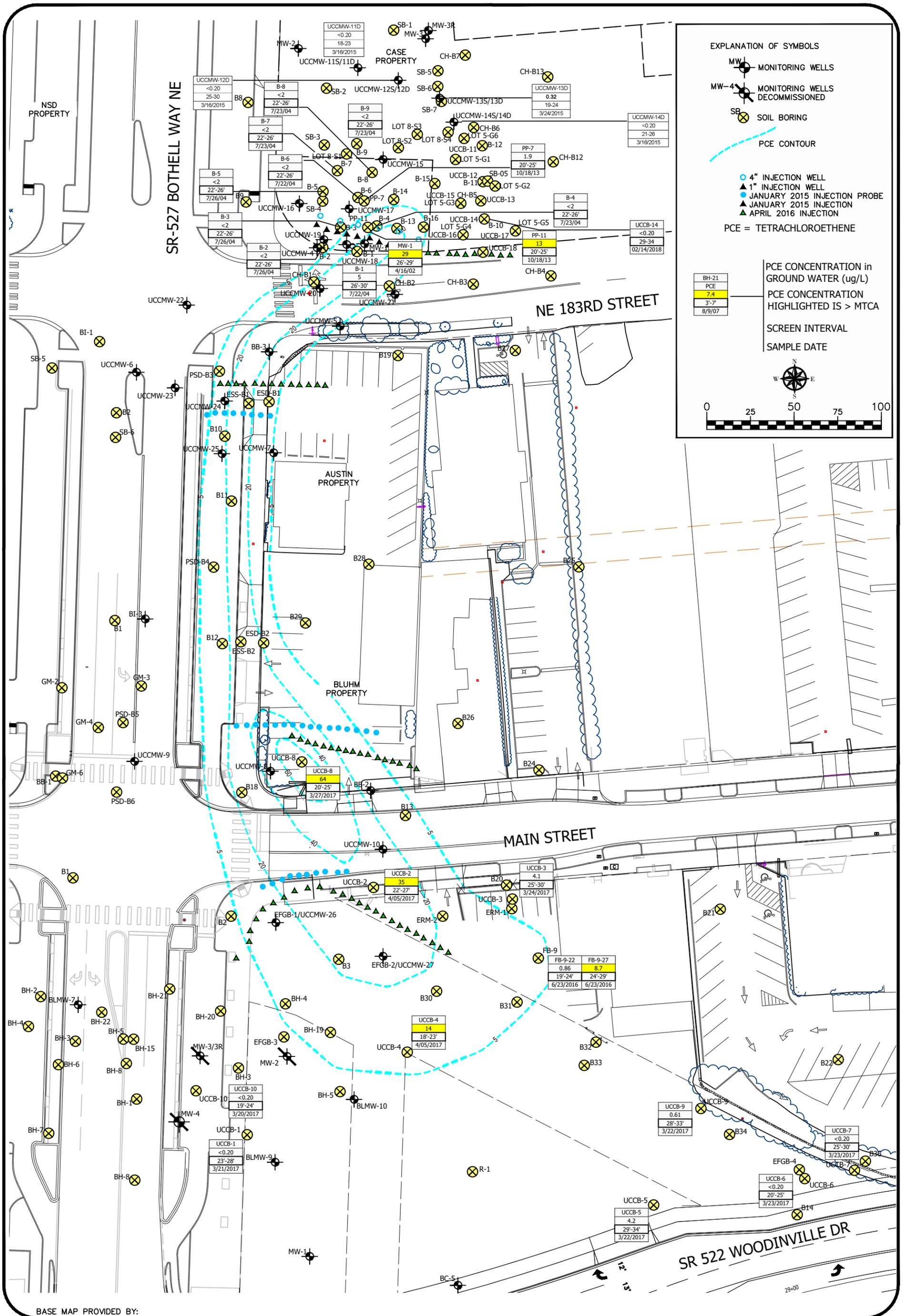
BH-21	PCE	7.4	3'-7'	8/9/07
-------	-----	-----	-------	--------

PCE CONCENTRATION in GROUND WATER (ug/L)
PCE CONCENTRATION HIGHLIGHTED IS > MTCA
SCREEN INTERVAL
SAMPLE DATE
MOST RECENT RESULTS SHOWN

HWA GEOSCIENCES INC.

ULTRA CUSTOM CARE CLEANERS SITE
RI/FSDCAP BOTHELL, WASHINGTON
Source Area PCE in Ground Water
2011-2018 (Shallow)

DRAWN BY BFM	FIGURE # 11A
CHECK BY AS/NK	
DATE: 03.05.18	PROJECT #2007-098-21 TASK 2039



BASE MAP PROVIDED BY:



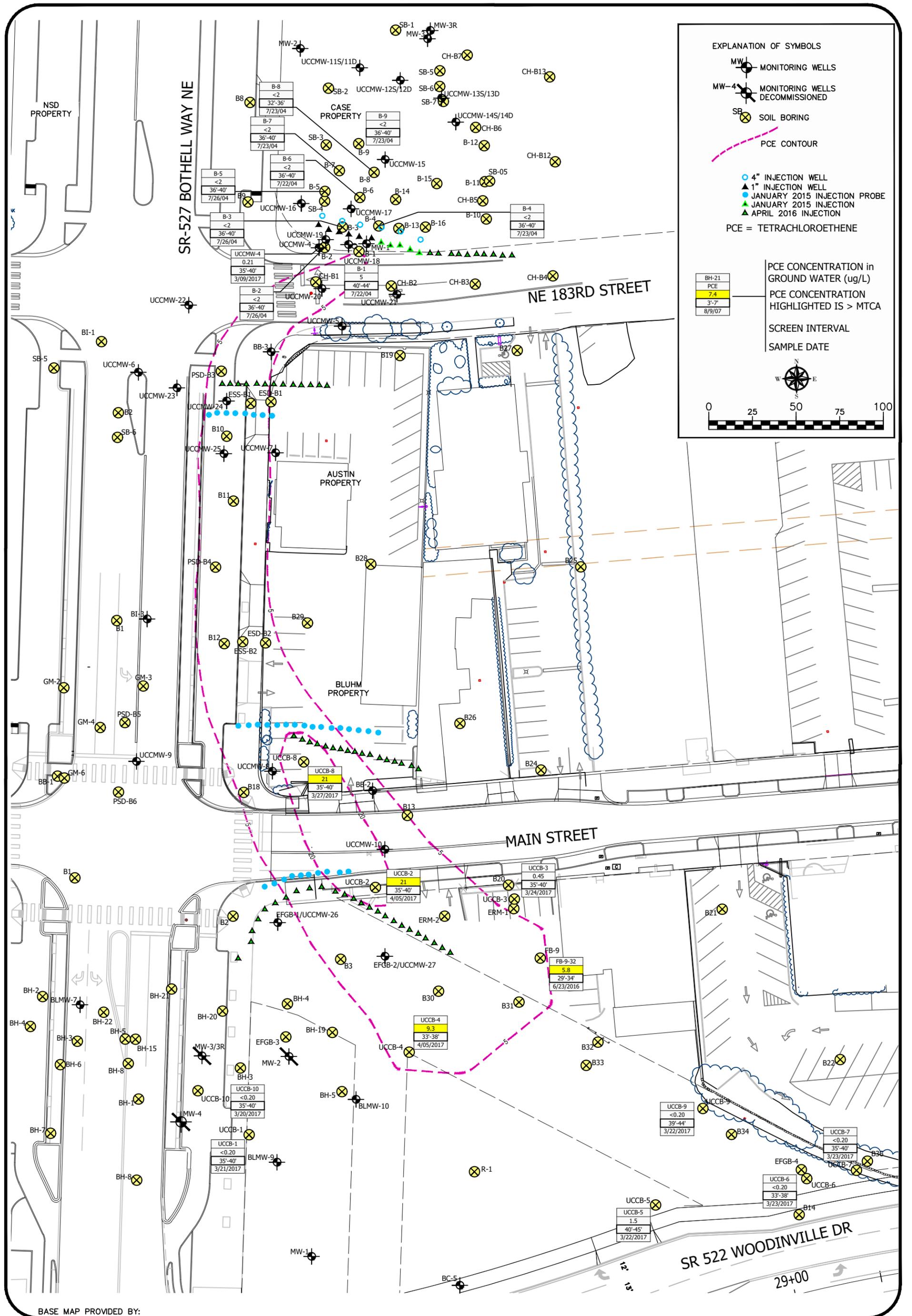
HWA GeoSciences Inc.

ULTRA CUSTOM CARE CLEANERS SITE
RI/FSDCAP
BOTHELL, WASHINGTON

PCE in Ground
Water, 2002-2017
(Intermediate)

DRAWN BY
BFM
CHECK BY
AS/NK
DATE:
08.28.2017

FIGURE #
12
PROJECT #
2007-098-21
TASK 2039



BASE MAP PROVIDED BY:



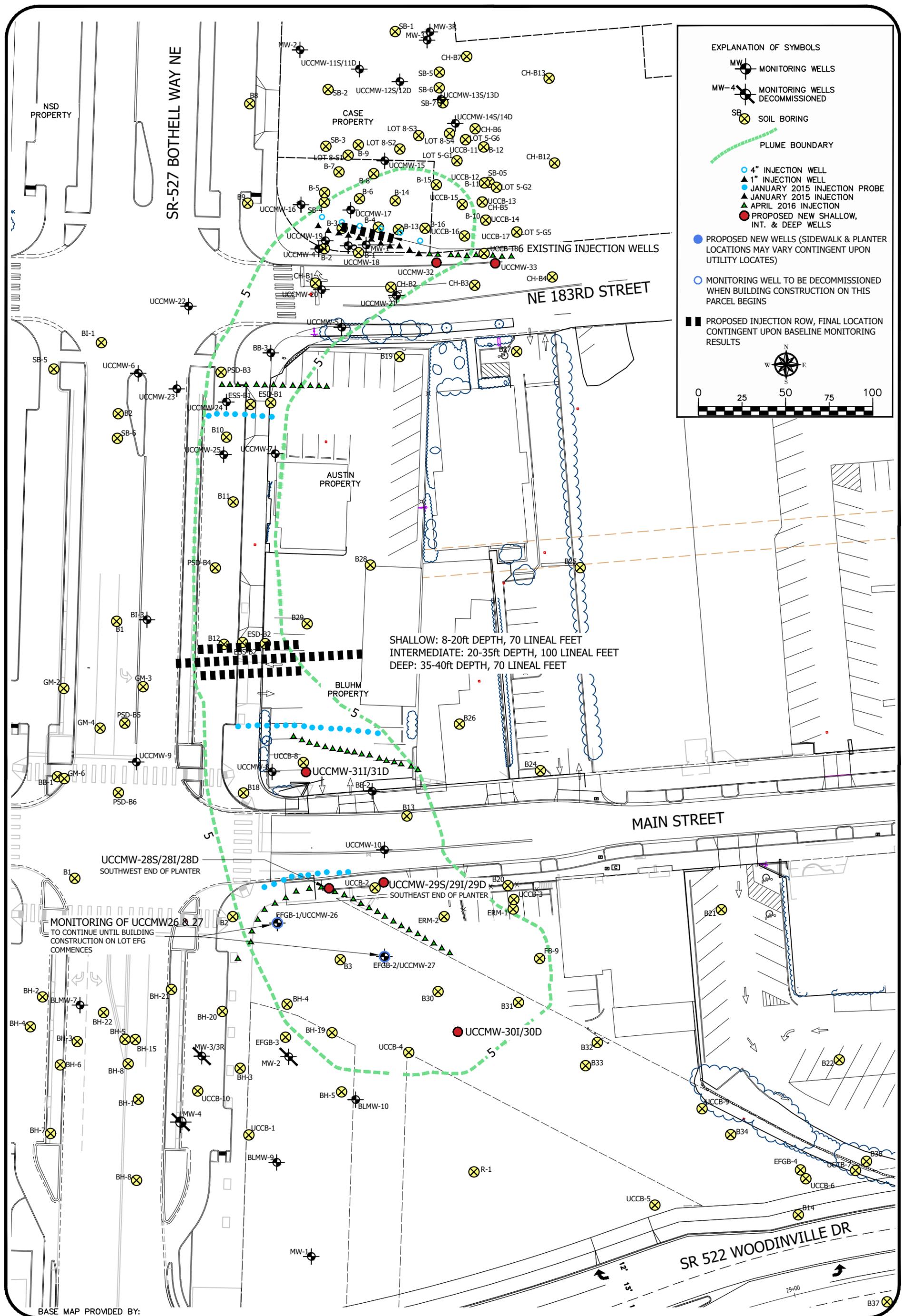
HWA GeoSciences Inc.

ULTRA CUSTOM CARE CLEANERS SITE
RI/FsdCAP
BOTHELL, WASHINGTON

PCE in Ground
Water, 2004-2017
(Deep)

DRAWN BY
BFM
CHECK BY
AS/NK
DATE:
08.28.2017

FIGURE #
13
PROJECT #
2007-098-21
TASK 2039



EXPLANATION OF SYMBOLS

- MW-1 MONITORING WELLS
- MW-4 MONITORING WELLS DECOMMISSIONED
- SB SOIL BORING
- PLUME BOUNDARY
- 4" INJECTION WELL
- 1" INJECTION WELL
- JANUARY 2015 INJECTION PROBE
- JANUARY 2015 INJECTION
- APRIL 2016 INJECTION
- PROPOSED NEW SHALLOW, INT. & DEEP WELLS
- PROPOSED NEW WELLS (SIDEWALK & PLANTER LOCATIONS MAY VARY CONTINGENT UPON UTILITY LOCATES)
- MONITORING WELL TO BE DECOMMISSIONED WHEN BUILDING CONSTRUCTION ON THIS PARCEL BEGINS
- PROPOSED INJECTION ROW, FINAL LOCATION CONTINGENT UPON BASELINE MONITORING RESULTS

0 25 50 75 100

SHALLOW: 8-20ft DEPTH, 70 LINEAL FEET
 INTERMEDIATE: 20-35ft DEPTH, 100 LINEAL FEET
 DEEP: 35-40ft DEPTH, 70 LINEAL FEET

BASE MAP PROVIDED BY:

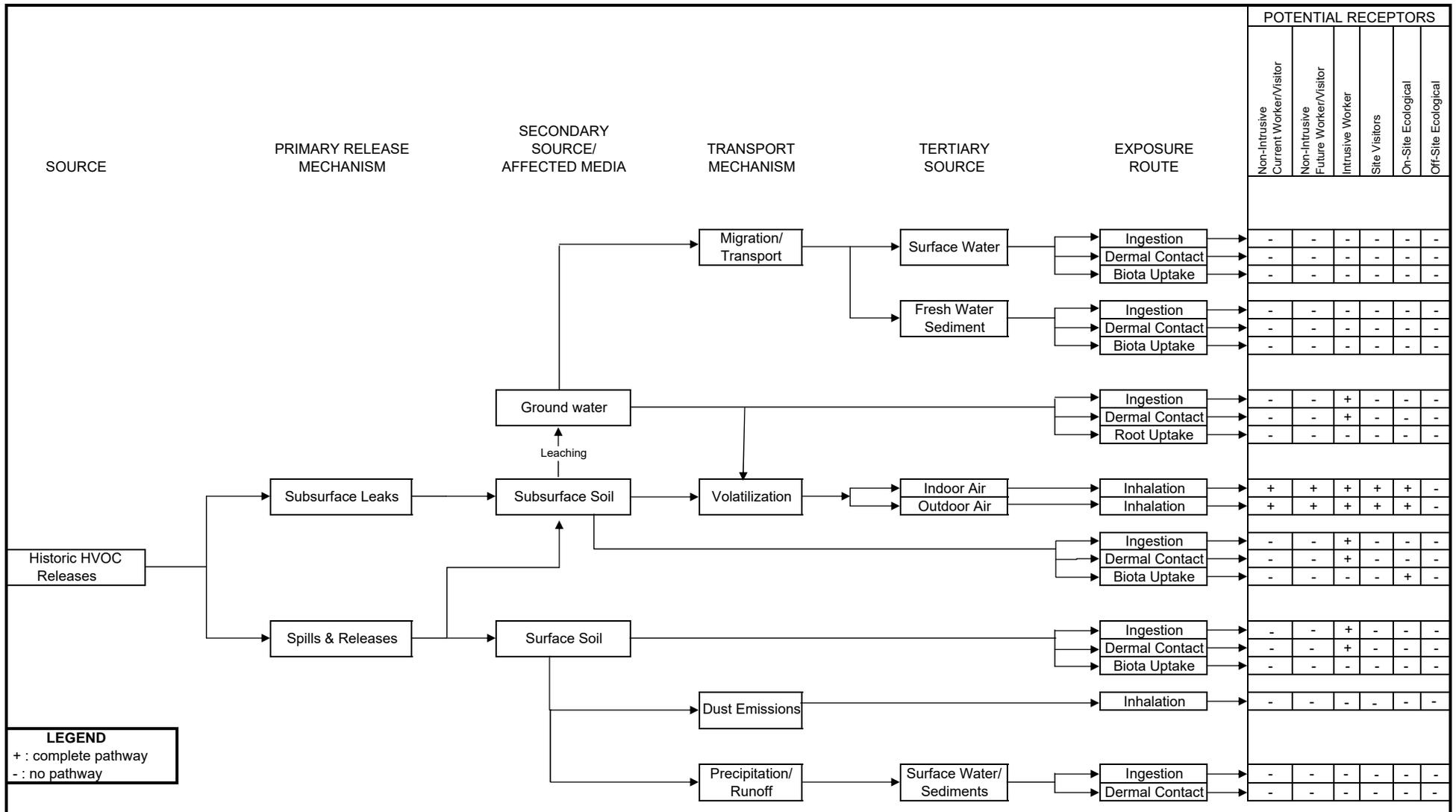


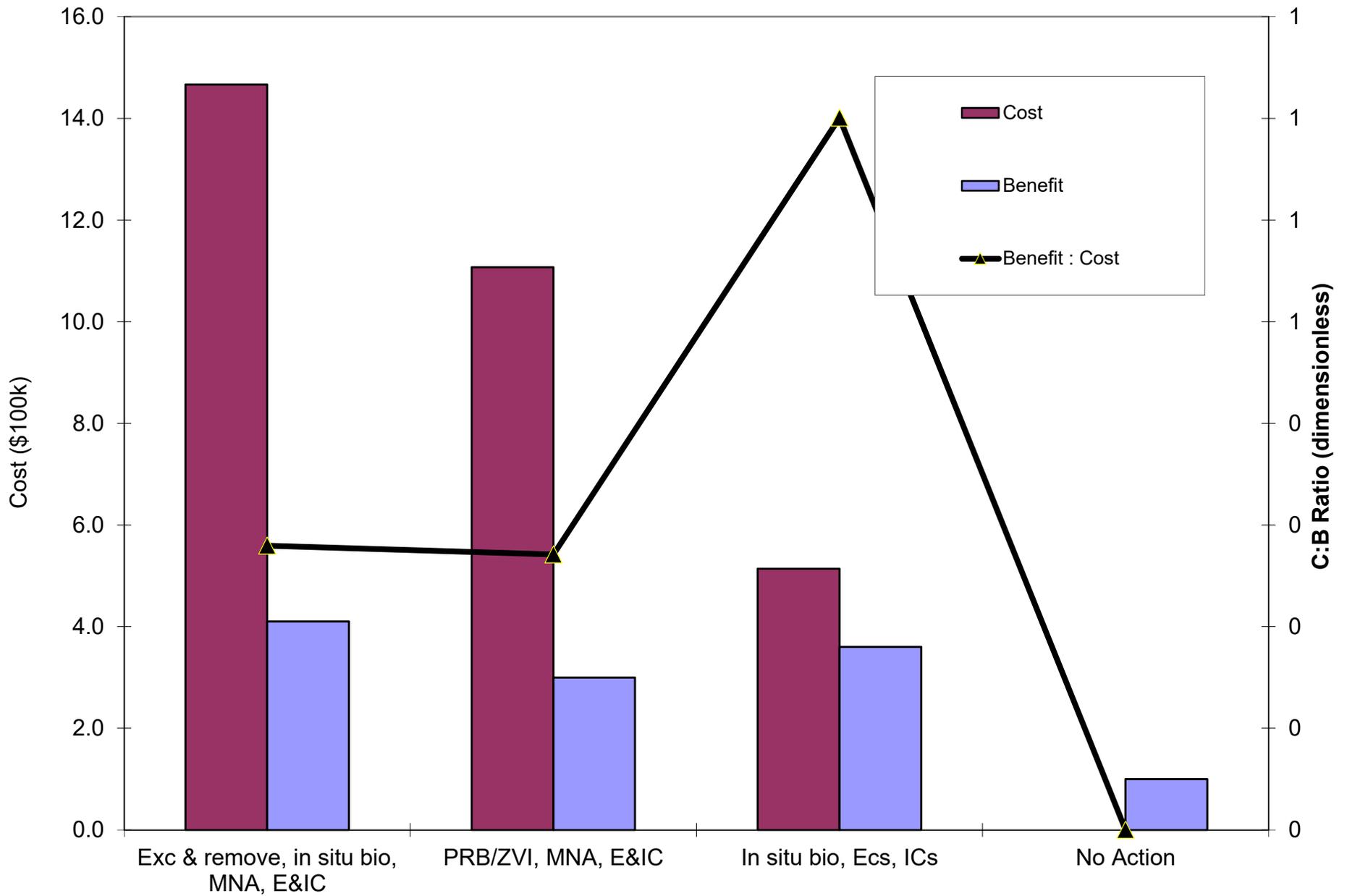
HWA GeoSciences Inc.

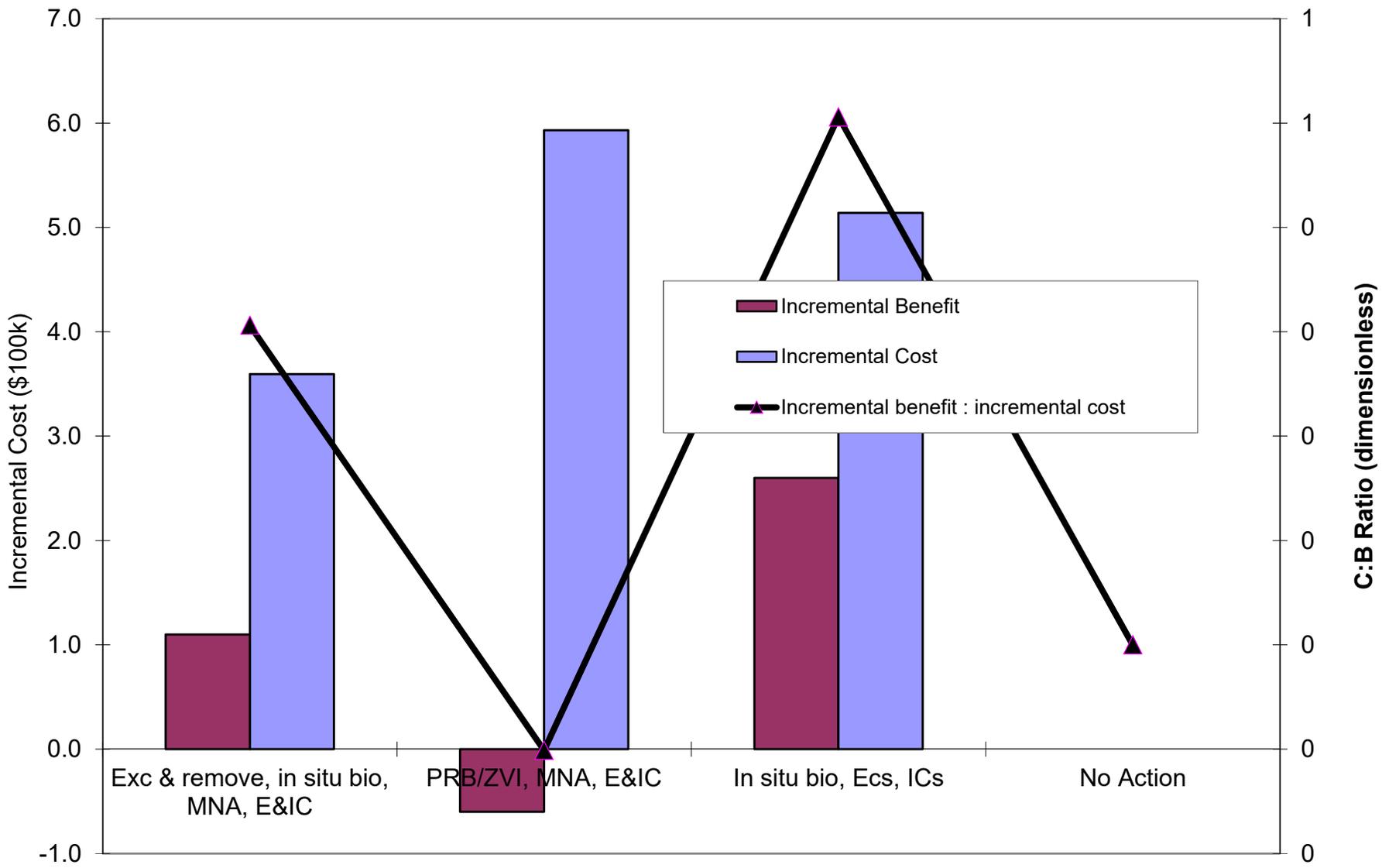
ULTRA CUSTOM CARE CLEANERS SITE
 RI/FSDCAP
 BOTHELL, WASHINGTON

CLEANUP &
 MONITORING
 LOCATIONS

DRAWN BY BFM	FIGURE # 14
CHECK BY AS/NK	PROJECT #
DATE: 08.28.2017	2007-098-21 TASK 2039







DCA - INCREMENTAL COST : INCREMENTAL BENEFIT

APPENDIX A

Agreed Order

**STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY**

In the Matter of Remedial Action by:

AGREED ORDER

City of Bothell

No. DE 9704

RE: Ultra Custom Care Cleaners
18304 Bothell Way NE
Bothell, Washington 98011

TO: Robert S. Stowe
City Manager
City of Bothell
18305 101st Avenue NE
Bothell, WA 98011

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	JURISDICTION	1
III.	PARTIES BOUND	1
IV.	DEFINITIONS	1
V.	FINDINGS OF FACT	2
VI.	ECOLOGY DETERMINATIONS	5
VII.	WORK TO BE PERFORMED	6
VIII.	TERMS AND CONDITIONS OF ORDER	8
	A. Public Notice	8
	B. Remedial Action Costs	8
	C. Implementation of Remedial Action	9
	D. Designated Project Coordinators	9
	E. Performance	10
	F. Access	11
	G. Sampling, Data Submittal, and Availability	11
	H. Public Participation	12
	I. Retention of Records	13
	J. Resolution of Disputes	13
	K. Extension of Schedule	14
	L. Amendment of Order	16
	M. Endangerment	16
	N. Reservation of Rights	17
	O. Transfer of Interest in Property	17
	P. Compliance with Applicable Laws	18
	Q. Indemnification	19
IX.	SATISFACTION OF ORDER	19
X.	ENFORCEMENT	20
	EXHIBIT A Site Diagram	
	EXHIBIT B Scope of Work	
	EXHIBIT C Schedule of Deliverables	

I. INTRODUCTION

The mutual objective of the State of Washington, Department of Ecology (Ecology) and the City of Bothell under this Agreed Order (Order) is to provide for remedial action at a facility where there has been a release or threatened release of hazardous substances. This Order requires the City of Bothell to conduct a remedial investigation/feasibility study (RI/FS), perform an interim action, and submit a draft cleanup action plan (DCAP) for the Ultra Custom Care Cleaners Site located at and around 18304 Bothell Way NE in Bothell, Washington. Ecology believes the actions required by this Order are in the public interest.

II. JURISDICTION

This Agreed Order is issued pursuant to the Model Toxics Control Act (MTCA), RCW 70.105D.050(1).

III. PARTIES BOUND

This Agreed Order shall apply to and be binding upon the Parties to this Order, their successors and assigns. The undersigned representative of each party hereby certifies that he or she is fully authorized to enter into this Order and to execute and legally bind such party to comply with this Order. The City of Bothell agrees to undertake all actions required by the terms and conditions of this Order. No change in ownership or corporate status shall alter the City of Bothell's responsibility under this Order. The City of Bothell shall provide a copy of this Order to all agents, contractors, and subcontractors retained to perform work required by this Order, and shall ensure that all work undertaken by such agents, contractors, and subcontractors complies with this Order.

IV. DEFINITIONS

Unless otherwise specified herein, the definitions set forth in Chapter 70.105D RCW and Chapter 173-340 WAC shall control the meanings of the terms in this Order.

A. Site: The Site is referred to as Ultra Custom Care Cleaners, located at and around 18304 Bothell Way NE in downtown Bothell, Washington. The property from which the contamination originated is known as the Case property. The Site is defined by the extent of

contamination caused by the release of hazardous substances at the Site. Based upon factors currently known to Ecology, the Site is more particularly described in the Site Diagram (Exhibit A). The Site constitutes a Facility under RCW 70.105D.020(5).

B. Parties: Refers to the State of Washington, Department of Ecology and the City of Bothell.

C. Potentially Liable Person (PLP): Refers to the City of Bothell.

D. Agreed Order or Order: Refers to this Order and each of the exhibits to this Order. All exhibits are integral and enforceable parts of this Order. The terms “Agreed Order” or “Order” shall include all exhibits to this Order.

V. FINDINGS OF FACT

Ecology makes the following findings of fact, without any express or implied admissions of such facts by the City of Bothell:

A. The City of Bothell owns the property located at 18304 Bothell Way NE in downtown Bothell (King County Tax Parcel No. 0726059003) as well as the adjacent right-of-way. The City of Bothell acquired the property in February 2012 in order to accommodate the renovation and expansion of City Hall and related public amenities and improvements. King County Assessor, eReal Property, Parcel No. 072605-9003, <http://info.kingcounty.gov/Assessor/eRealProperty/Dashboard.aspx?ParcelNbr=0726059003> (last visited Dec. 11, 2012).

B. The Ultra Custom Care Cleaners property is located at 18300 – 18304 Bothell Way NE (also known as the Bothell-Everett Highway), Bothell, Washington, at the northeast intersection of Bothell Way NE and NE 183rd Street. This 0.25 acre property consists of a rectangular lot and a single building housing, from north to south, the Ultra Custom Care Cleaners dry cleaning facility, Frank’s Hair Design hair salon, and the Laundry Basket Laundromat. From the early 1950s until 1967 when the current building was constructed, the Raincheck Cleaners and Laundry operated in a separate building in the southwest corner of the property.

C. Several investigations have been performed as independent remedial actions at the Site, including EHS International, Inc. (2001a, 2001b), Farallon Consulting (2002), and Environmental Partners, Inc. (2004). Sampling results indicated that soil and groundwater at the Case property contained halogenated volatile organic compounds (HVOCs), primarily the dry cleaning solvent tetrachloroethylene (a.k.a., perchloroethene or PCE), and also associated degradation compounds trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-1,2-DCE), and Vinyl Chloride (VC). HVOC concentrations in soil were below MTCA Method A cleanup levels. However, PCE, TCE, and cis-1,2-DCE concentrations in groundwater exceeded the MTCA Method A cleanup levels for these compounds with the highest concentrations occurring in the southwest corner of the Site where the former Raincheck Cleaners and Laundry building was located. Surface water samples collected from stormwater catch basins on the property contained PCE concentrations above the MTCA Method A cleanup level of 5 micrograms per liter ($\mu\text{g/L}$). The results of the EHS International, Farallon Consulting, and Environmental Partners site investigations indicated that the source of the PCE and related degradation products was the former Raincheck Cleaners and Laundry facility.

D. CDM (2009) performed a Phase II Environmental Site Assessment of the City's Crossroads Redevelopment Project area, downgradient of the Case property. This assessment was an independent remedial action. To evaluate HVOC distribution in the area, CDM used a direct push rig to collect soil and groundwater samples along Bothell Way NE adjacent to and south of the Case property. CDM concluded that PCE contaminated groundwater that apparently originates at the former Raincheck Cleaners and Laundry facility is migrating south along utility corridors in Bothell Way NE. Similarly, in 2008 HWA GeoSciences found PCE in concentrations exceeding MTCA Method A cleanup levels in two groundwater samples collected in monitoring wells south of the Case property.

E. CDM (2011) performed supplemental groundwater investigations as independent remedial actions, which further defined the northern portion of the plume as being mostly along

Bothell Way NE, with limited solvents in groundwater on properties east and west of the roadway in the block south of the source.

F. The Site is listed as facility number 379891 on the Department of Ecology's Confirmed and Suspected Contaminated Sites List (CSCSL) for solvent contamination in soil and groundwater.

G. Several reports document the release of hazardous substances at the Site. These documents, and other reports relating to the Site, are available at Ecology's Northwest Regional Office Central Records.

- CDM, Phase I Environmental Site Assessment, Former Raincheck Cleaners and Laundry Site, 18304 Bothell Way NE, Bothell, Washington (prepared for King County Solid Waste Division) (Jan. 2, 2008)
- CDM, Draft Phase II Environmental Site Assessment, City of Bothell Crossroads (2009)
- Redevelopment Project, Bothell, Washington (May 2009)
- CDM, Supplemental Phase II Environmental Site Assessment, Former Raincheck Cleaners – Offsite Area, 18304 Bothell Way NE, Bothell, Washington (Aug. 17, 2011)
- Environmental Partners, Inc., Chlorinated VOC Nature and Extent Investigation Letter Report, Case Property 18300-18304 Bothell Way NE, Bothell, WA, EPI Project No. 46101.0 (Nov. 30, 2004)
- Farallon Consulting, Subsurface Investigation Report, Ultra Custom Care Cleaners Property 18300-18304 Bothell Way NE, Bothell, Washington, Farallon PN: 733-001 (Apr. 19, 2002)
- HWA GeoSciences, Draft Geotechnical Report, SR 527 – Bothell Multi-Way Boulevard Project, Bothell, Washington. HWA Project No. 2007-098-22 Task 600 (Dec. 5, 2008)
- HWA GeoSciences, New City Hall Soil & Ground Water Sampling, Bothell, Washington, HWA Project No. 2007-098-22 Task 937 (Oct. 17, 2011)
- HWA GeoSciences, Case Property Inspection And Sampling, Bothell, Washington, HWA Project No. 2007-098-22 Task 939 (Nov. 22, 2011)
- HWA GeoSciences, Bothell Way NE Drainage Improvements Soil & Ground Water Sampling Bothell, Washington, HWA Project No. 2007-098-22 Task 940 (Jan. 9, 2012)
- Parametrix, Draft City Hall Site Environmental Site Assessment (prepared for City of Bothell) (May 2010)

Two reports not in Ecology's files, but referenced in other reports above, include:

- EHS International, Phase I Environmental Site Assessment, report to Bothell Police Department (June 12, 2001)
- EHS International, Phase II Environmental Site Assessment and Limited Hazardous Materials Survey, report to Bothell Police Department (Aug. 15, 2001)

VI. ECOLOGY DETERMINATIONS

A. The City of Bothell is an "owner or operator" as defined in RCW 70.105D.020(17) of a "facility" as defined in RCW 70.105D.020(5).

B. Based upon all factors known to Ecology, a "release" or "threatened release" of "hazardous substance(s)" as defined in RCW 70.105D.020(25) and RCW 70.105D.020(10), respectively, has occurred at the Site.

C. Based upon credible evidence, Ecology issued a PLP status letter to the City of Bothell dated June 28, 2012, pursuant to RCW 70.105D.040, .020(21), and WAC 173-340-500. By letter dated July 3, 2012, the City of Bothell voluntarily waived its rights to notice and comment and accepted Ecology's determination that the City of Bothell is a PLP under RCW 70.105D.040.

D. Pursuant to RCW 70.105D.030(1) and .050(1), Ecology may require PLPs to investigate or conduct other remedial actions with respect to any release or threatened release of hazardous substances, whenever it believes such action to be in the public interest. Based on the foregoing facts, Ecology believes the remedial actions required by this Order are in the public interest.

E. As described in Section V (Findings of Fact), the PLP and others have previously conducted independent remedial actions in the form of remedial investigations to define the nature and extent of contamination. The PLP shall develop a remedial investigation report based on the existing data and identify any data gap in a remedial investigation data gaps work plan, which shall meet the requirements of WAC 173-340-350, to address any potential data gaps in these investigations.

F. Under WAC 173-340-430, an interim action is a remedial action that is technically necessary to reduce a threat to human health or the environment by eliminating or substantially reducing one or more pathways for exposure to a hazardous substance, that corrects a problem that may become substantially worse or cost substantially more to address if the remedial action is delayed, or that is needed to provide for completion of a site hazard assessment, remedial investigation/feasibility study, or design of a cleanup action. Chlorinated volatile organic compounds (VOCs); including tetrachloroethylene (PCE), and daughter products at concentrations exceeding MTCA Method A cleanup levels in groundwater samples are known to occur at and downgradient of the Ultra Custom Cleaners property. The VOC detections on the Site appear to be from a known historic source on the Ultra Custom Cleaners property. Partial site cleanup and source removal can be achieved by starting at the source property, when the City demolishes the existing building as part of its City Hall expansion project. This will provide unobstructed access in areas beneath the floor slab securing/fencing off the property and for implementing soil and groundwater cleanup as interim actions in the source area. Such circumstances may warrant an interim action consistent with WAC 173-340-430.

VII. WORK TO BE PERFORMED

Based on the Findings of Fact and Ecology Determinations, it is hereby ordered that the PLP take the following remedial actions at the Site and that these actions be conducted in accordance with Chapter 173-340 WAC unless otherwise specifically provided for herein:

A. The work to be performed includes the planning, implementation, and reporting of a remedial investigation and feasibility study (RI/FS), an interim action, and preparing a draft cleanup action plan (DCAP) for the Ultra Custom Care Cleaners Site. A Scope of Work is attached hereto as Exhibit B for the completion of a RI/FS and DCAP. Exhibit B is incorporated by reference as an integral and enforceable part of the Order.

B. The PLP shall complete all tasks to implement the Scope of Work (Exhibit B) and submit to Ecology for review and approval according to the Schedule of Deliverables, attached as Exhibit C.

C. Upon approval by Ecology, the PLP will proceed with field implementation of the Work Plans in accordance with an agreed upon schedule.

D. The PLP shall submit to Ecology a Work Plan and Schedule for the Interim Action(s) and shall follow the submittal requirements for an interim remedial action as per WAC 173-340-430(7). Implementation of the interim action is contingent upon formal Ecology approval of the interim action work plan.

E. The PLP shall develop a Remedial Investigation Report and Remedial Investigation Data Gap Work Plan, which shall meet the requirements of WAC 173-340-350. Implementation of the Remedial Investigation Data Gaps Work Plan is contingent upon formal approval by Ecology. Work Plans shall consist of a detailed description of site conditions, work to be performed, personnel requirements, and schedules for implementation and deliverables for the following:

- TASK I. Draft Remedial Investigation Report and Remedial Investigation Data Gaps Work Plan
- TASK II. Interim Action Work Plan
- TASK III. Implement Interim Action
- TASK IV. Draft Final Remedial Investigation Report
- TASK V. Feasibility Study and Draft Feasibility Study Report
- TASK VI. Draft Cleanup Action Plan

These tasks and work plans if applicable and each element thereof shall be designed, implemented, and completed in accordance with the MTCA (Chapter 70.105D RCW) and its implementing regulation (Chapter 173-340 WAC) as amended, and all applicable federal, state, and local laws and regulations.

F. Electronic data shall be entered into Ecology's Environmental Information Management (EIM) System.

G. If, at any time after the first exchange of comments on drafts, Ecology determines that insufficient progress is being made in the preparation of any of the deliverables required by this section, Ecology may complete and issue the final deliverable.

VIII. TERMS AND CONDITIONS OF ORDER

A. Public Notice

RCW 70.105D.030(2)(a) requires that, at a minimum, this Order be subject to concurrent public notice. Ecology shall be responsible for providing such public notice and reserves the right to modify or withdraw any provisions of this Order should public comment disclose facts or considerations which indicate to Ecology that this Order is inadequate or improper in any respect.

B. Remedial Action Costs

The PLP shall pay to Ecology costs incurred by Ecology pursuant to this Order and consistent with WAC 173-340-550(2). These costs shall include work performed by Ecology or its contractors for, or on, the Site under MTCA, Chapter 70.105D RCW, including remedial actions and Order preparation, negotiation, oversight, and administration. These costs shall include work performed both prior to and subsequent to the issuance of this Order. Ecology's costs shall include costs of direct activities and support costs of direct activities as defined in WAC 173-340-550(2). The PLP shall pay the required amount within thirty (30) days of receiving from Ecology an itemized statement of costs that includes a summary of costs incurred, an identification of involved staff, and the amount of time spent by involved staff members on the project. A general statement of work performed will be provided upon request. Itemized statements shall be prepared quarterly. Pursuant to WAC 173-340-550(4), failure to pay Ecology's costs within ninety (90) days of receipt of the itemized statement of costs will result in interest charges at the rate of twelve percent (12%) per annum, compounded monthly. Pursuant to RCW 70.105D.055, Ecology has authority to recover unreimbursed remedial action costs by filing a lien against real property subject to the remedial actions.

Ecology hereby incorporates into this Order the previous remedial actions described in Section V (Findings of Fact). Reimbursement for specific project tasks under a grant agreement with Ecology is contingent upon a determination by Ecology's Toxics Cleanup Program that the work performed complies with the substantive requirements of Chapter 173-340 WAC and is consistent with the remedial action required under this Order. The costs associated with

Ecology's determinations on the past independent remedial actions described in Section V (Findings of Fact) are recoverable under this Order.

C. Implementation of Remedial Action

If Ecology determines that the PLP has failed without good cause to implement the remedial action, in whole or in part, Ecology may, after notice to the PLP, perform any or all portions of the remedial action that remain incomplete. If Ecology performs all or portions of the remedial action because of the PLP's failure to comply with its obligations under this Order, the PLP shall reimburse Ecology for the costs of doing such work in accordance with section VIII.B (Remedial Action Costs), provided that the PLP is not obligated under this Section to reimburse Ecology for costs incurred for work inconsistent with or beyond the scope of this Order.

Except where necessary to abate an emergency situation, the PLP shall not perform any remedial actions at the Site outside those remedial actions required by this Order, unless Ecology concurs, in writing, with such additional remedial actions.

D. Designated Project Coordinators

The project coordinator for Ecology is:

Sunny Becker
Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008-5452
Phone: (425) 649-7187
Email: hlin461@ecy.wa.gov

The project coordinator for the PLP is:

Nduta Mbuthia
Project Engineer/PLP Coordinator
City of Bothell, Public Works Department
9654 NE 182nd Street
Bothell, WA 98011
Phone: (425) 486-2768, ext. 6829
Email: Nduta.mbuthia@ci.bothell.wa.us

Each project coordinator shall be responsible for overseeing the implementation of this Order. Ecology's project coordinator will be Ecology's designated representative for the Site.

To the maximum extent possible, communications between Ecology and the PLP, and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Order shall be directed through the project coordinators. The project coordinators may designate, in writing, working level staff contacts for all or portions of the implementation of the work to be performed as required by this Order.

Any party may change its respective project coordinator. Written notification shall be given to the other party at least ten (10) calendar days prior to the change.

E. Performance

All geologic and hydrogeologic work performed pursuant to this Order shall be under the supervision and direction of a geologist licensed in the State of Washington or under the direct supervision of an engineer registered in the State of Washington, except as otherwise provided for by Chapters 18.220 and 18.43 RCW.

All engineering work performed pursuant to this Order shall be under the direct supervision of a professional engineer registered in the State of Washington, except as otherwise provided for by RCW 18.43.130.

All construction work performed pursuant to this Order shall be under the direct supervision of a professional engineer or a qualified technician under the direct supervision of a professional engineer. The professional engineer must be registered in the State of Washington, except as otherwise provided for by RCW 18.43.130.

Any documents submitted containing geologic, hydrologic, or engineering work shall be under the seal of an appropriately licensed professional as required by Chapter 18.220 RCW or RCW 18.43.130.

The PLP shall notify Ecology in writing of the identity of any engineer(s) and geologist(s), contractor(s) and subcontractor(s), and others to be used in carrying out the terms of this Order, in advance of their involvement at the Site.

F. Access

Ecology or any Ecology authorized representative shall have full authority to enter and freely move about all property at the Site that the PLP either owns, controls, or has access rights to at all reasonable times for the purposes of, *inter alia*: inspecting records, operation logs, and contracts related to the work being performed pursuant to this Order; reviewing the PLP's progress in carrying out the terms of this Order; conducting such tests or collecting such samples as Ecology may deem necessary; using a camera, sound recording, or other documentary type equipment to record work done pursuant to this Order; and verifying the data submitted to Ecology by the PLP. The PLP shall make all reasonable efforts to secure access rights for those properties within the Site not owned or controlled by the PLP where remedial activities or investigations will be performed pursuant to this Order. Ecology or any Ecology authorized representative shall give reasonable notice before entering any Site property owned or controlled by the PLP unless an emergency prevents such notice. All persons who access the Site pursuant to this section shall comply with any applicable Health and Safety Plan(s). Ecology employees and their representatives shall not be required to sign any liability release or waiver as a condition of Site property access.

G. Sampling, Data Submittal, and Availability

With respect to the implementation of this Order, the PLP shall make the results of all sampling, laboratory reports, and/or test results generated by it or on its behalf available to Ecology. Pursuant to WAC 173-340-840(5), all sampling data shall be submitted to Ecology in both printed and electronic formats in accordance with Section VII (Work to be Performed), Ecology's Toxics Cleanup Program Policy 840 (Data Submittal Requirements), and/or any subsequent procedures specified by Ecology for data submittal.

If requested by Ecology, the PLP shall allow Ecology and/or its authorized representative to take split or duplicate samples of any samples collected by the PLP pursuant to implementation of this Order. The PLP shall notify Ecology seven (7) days in advance of any sample collection or work activity at the Site. Ecology shall, upon request, allow the PLP and/or its authorized representative to take split or duplicate samples of any samples collected by

Ecology pursuant to the implementation of this Order, provided that doing so does not interfere with Ecology's sampling. Without limitation on Ecology's rights under Section VIII.F (Access), Ecology shall notify the PLP prior to any sample collection activity unless an emergency prevents such notice.

In accordance with WAC 173-340-830(2)(a), all hazardous substance analyses shall be conducted by a laboratory accredited under Chapter 173-50 WAC for the specific analyses to be conducted, unless otherwise approved by Ecology.

H. Public Participation

A public participation plan is required for this Site. Ecology shall review any existing public participation plan to determine its continued appropriateness and whether it requires amendment. If no plan exists, Ecology shall develop a public participation plan alone or in conjunction with the PLP.

Ecology shall maintain the responsibility for public participation at the Site, and the PLP shall cooperate with Ecology.

1. Ecology will develop appropriate mailing lists with input from the PLP, prepare drafts of public notices and fact sheets at important stages of the remedial action, such as the submission of work plans, remedial investigation/feasibility study reports, interim actions, and cleanup action plans. Ecology will edit, finalize, and distribute such fact sheets and prepare and distribute public notices of Ecology's presentations and meetings. The PLP will be provided an opportunity to review fact sheets and public notices prior to distribution.

2. The PLP shall notify Ecology's project coordinator prior to any of the following regarding the Site: the issuance of all press releases; distribution of fact sheets; performance of other outreach activities; meetings with the interested public and/or local governments. Likewise, Ecology shall notify the PLP prior to the issuance of all press releases and fact sheets, and before meetings with the interested public and local governments. For all press releases, fact sheets, meetings, and other outreach efforts by the PLP that do not receive prior Ecology

approval, the PLP shall clearly indicate to its audience that the press release, fact sheet, meeting, or other outreach effort was not sponsored or endorsed by Ecology.

3. When requested by Ecology, the PLP shall participate in public presentations on the progress of the remedial action at the Site. Participation may be through attendance at public meetings to assist in answering questions, or as a presenter.

4. When requested by Ecology, the PLP shall arrange and/or continue information repositories to be located at the following locations:

- (a) King County Bothell Library
18215 98th Avenue NE
Bothell, WA 98011
- (b) Ecology's Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008-5452

At a minimum, copies of all public notices, fact sheets, and press releases; all quality assured monitoring data; remedial action plans and reports, supplemental remedial planning documents, and all other similar documents relating to performance of the remedial action required by this Order shall be promptly placed in these repositories.

I. Retention of Records

During the pendency of this Order, and for ten (10) years from the date of completion of work performed pursuant to this Order, the PLP shall preserve all records, reports, documents, and underlying data in its possession relevant to the implementation of this Order and shall insert a similar record retention requirement into all contracts with project contractors and subcontractors. Upon request of Ecology, the PLP shall make all records available to Ecology and allow access for review within a reasonable time.

J. Resolution of Disputes

1. In the event a dispute arises as to an approval, disapproval, proposed change, or other decision or action by Ecology's project coordinator, or an itemized billing statement under Section VIII.B (Remedial Action Costs), the Parties shall utilize the dispute resolution procedure set forth below.

a. Upon receipt of Ecology's project coordinator's written decision or the itemized billing statement, the PLP has fourteen (14) days within which to notify Ecology's project coordinator in writing of its objection to the decision or itemized statement.

b. The Parties' project coordinators shall then confer in an effort to resolve the dispute. If the project coordinators cannot resolve the dispute within fourteen (14) days, Ecology's project coordinator shall issue a written decision.

c. The PLP may then request regional management review of the decision. This request shall be submitted in writing to the Northwest Region Toxics Cleanup Section Manager within seven (7) days of receipt of Ecology's project coordinator's written decision.

d. The Section Manager shall conduct a review of the dispute and shall endeavor to issue a written decision regarding the dispute within thirty (30) days of the PLP's request for review. The Section Manager's decision shall be Ecology's final decision on the disputed matter.

2. The Parties agree to only utilize the dispute resolution process in good faith and agree to expedite, to the extent possible, the dispute resolution process whenever it is used.

3. Implementation of these dispute resolution procedures shall not provide a basis for delay of any activities required in this Order, unless Ecology agrees in writing to a schedule extension.

K. Extension of Schedule

1. An extension of schedule shall be granted only when a request for an extension is submitted in a timely fashion, generally at least thirty (30) days prior to expiration of the deadline for which the extension is requested, and good cause exists for granting the extension. All extensions shall be requested in writing. The request shall specify:

- a. The deadline that is sought to be extended;
- b. The length of the extension sought;

- c. The reason(s) for the extension; and
- d. Any related deadline or schedule that would be affected if the extension were granted.

2. The burden shall be on the PLP to demonstrate to the satisfaction of Ecology that the request for such extension has been submitted in a timely fashion and that good cause exists for granting the extension. Good cause may include, but may not be limited to:

- a. Circumstances beyond the reasonable control and despite the due diligence of the PLP including delays caused by unrelated third parties or Ecology, such as (but not limited to) delays by Ecology in reviewing, approving, or modifying documents submitted by the PLP;
- b. Acts of God, including fire, flood, blizzard, extreme temperatures, storm, or other unavoidable casualty; or
- c. Endangerment as described in Section VIII. M (Endangerment).

However, neither increased costs of performance of the terms of this Order nor changed economic circumstances shall be considered circumstances beyond the reasonable control of the PLP.

3. Ecology shall act upon any written request for extension in a timely fashion. Ecology shall give the PLP written notification of any extensions granted pursuant to this Order. A requested extension shall not be effective until approved by Ecology. Unless the extension is a substantial change, it shall not be necessary to amend this Order pursuant to Section VIII.L (Amendment of Order) when a schedule extension is granted.

4. An extension shall only be granted for such period of time as Ecology determines is reasonable under the circumstances. Ecology may grant schedule extensions exceeding ninety (90) days only as a result of:

- a. Delays in the issuance of a necessary permit which was applied for in a timely manner;
- b. Other circumstances deemed exceptional or extraordinary by Ecology; or

- c. Endangerment as described in Section VIII.M (Endangerment).

L. Amendment of Order

The project coordinators may verbally agree to minor changes to the work to be performed without formally amending this Order. Minor changes will be documented in writing by Ecology within seven (7) days of verbal agreement.

Except as provided in Section VIII.N (Reservation of Rights), substantial changes to the work to be performed shall require formal amendment of this Order. This Order may only be formally amended by the written consent of both Ecology and the PLP. The PLP shall submit a written request for amendment to Ecology for approval. Ecology shall indicate its approval or disapproval in writing and in a timely manner after the written request for amendment is received. If the amendment to this Order represents a substantial change, Ecology will provide public notice and opportunity to comment. Reasons for the disapproval of a proposed amendment to this Order shall be stated in writing. If Ecology does not agree to a proposed amendment, the disagreement may be addressed through the dispute resolution procedures described in Section VIII.J (Resolution of Disputes).

M. Endangerment

In the event Ecology determines that any activity being performed at the Site is creating or has the potential to create a danger to human health or the environment on or surrounding the Site, Ecology may direct the PLP to cease such activities for such period of time as it deems necessary to abate the danger. The PLP shall immediately comply with such direction.

In the event the PLP determines that any activity being performed at the Site is creating or has the potential to create a danger to human health or the environment, the PLP may cease such activities. The PLP shall notify Ecology's project coordinator as soon as possible, but no later than twenty-four (24) hours after making such determination or ceasing such activities. Upon Ecology's direction the PLP shall provide Ecology with documentation of the basis for the determination or cessation of such activities. If Ecology disagrees with the PLP's cessation of activities, it may direct the PLP to resume such activities.

If Ecology concurs with or orders a work stoppage pursuant to Section VIII.M (Endangerment), the PLP's obligations with respect to the ceased activities shall be suspended until Ecology determines the danger is abated, and the time for performance of such activities, as well as the time for any other work dependent upon such activities, shall be extended in accordance with Section VIII.K (Extension of Schedule) for such period of time as Ecology determines is reasonable under the circumstances.

Nothing in this Order shall limit the authority of Ecology, its employees, agents, or contractors to take or require appropriate action in the event of an emergency.

N. Reservation of Rights

This Order is not a settlement under Chapter 70.105D RCW. Ecology's signature on this Order in no way constitutes a covenant not to sue or a compromise of any of Ecology's rights or authority. Ecology will not, however, bring an action against the PLP to recover remedial action costs paid to and received by Ecology under this Order. In addition, Ecology will not take additional enforcement actions against the PLP regarding remedial actions required by this Order, provided the PLP complies with this Order.

Ecology nevertheless reserves its rights under Chapter 70.105D RCW, including the right to require additional or different remedial actions at the Site should it deem such actions necessary to protect human health and the environment, and to issue orders requiring such remedial actions. Ecology also reserves all rights regarding the injury to, destruction of, or loss of natural resources resulting from the release or threatened release of hazardous substances at the Site.

O. Transfer of Interest in Property

No voluntary conveyance or relinquishment of title, easement, leasehold, or other interest in any portion of the Site shall be consummated by the PLP without provision for continued implementation of all requirements of this Order and implementation of any remedial actions found to be necessary as a result of this Order.

Prior to the PLP's transfer of any interest in all or any portion of the Site, and during the effective period of this Order, the PLP shall provide a copy of this Order to any prospective purchaser, lessee, transferee, assignee, or other successor in said interest; and, at least thirty (30) days prior to any transfer, the PLP shall notify Ecology of said transfer. Upon transfer of any interest, the PLP shall restrict uses and activities to those consistent with this Order and notify all transferees of the restrictions on the use of the property.

P. Compliance with Applicable Laws

1. All actions carried out by the PLP pursuant to this Order shall be done in accordance with all applicable federal, state, and local requirements, including requirements to obtain necessary permits, except as provided in RCW 70.105D.090. At this time, no federal, state, or local requirements have been identified as being applicable to the actions required by this Order.

2. Pursuant to RCW 70.105D.090(1), the PLP is exempt from the procedural requirements of Chapters 70.94, 70.95, 70.105, 77.55, 90.48, and 90.58 RCW and of any laws requiring or authorizing local government permits or approvals. However, the PLP shall comply with the substantive requirements of such permits or approvals. At this time, no state or local permits or approvals have been identified as being applicable but procedurally exempt under this section.

The PLP has a continuing obligation to determine whether additional permits or approvals addressed in RCW 70.105D.090(1) would otherwise be required for the remedial action under this Order. In the event either Ecology or the PLP determines that additional permits or approvals addressed in RCW 70.105D.090(1) would otherwise be required for the remedial action under this Order, it shall promptly notify the other party of its determination. Ecology shall determine whether Ecology or the PLP shall be responsible to contact the appropriate state and/or local agencies. If Ecology so requires, the PLP shall promptly consult with the appropriate state and/or local agencies and provide Ecology with written documentation from those agencies of the substantive requirements those agencies believe are applicable to the

remedial action. Ecology shall make the final determination on the additional substantive requirements that must be met by the PLP and on how the PLP must meet those requirements. Ecology shall inform the PLP in writing of these requirements. Once established by Ecology, the additional requirements shall be enforceable requirements of this Order. The PLP shall not begin or continue the remedial action potentially subject to the additional requirements until Ecology makes its final determination.

3. Pursuant to RCW 70.105D.090(2), in the event Ecology determines that the exemption from complying with the procedural requirements of the laws referenced in RCW 70.105D.090(1) would result in the loss of approval from a federal agency that is necessary for the State of Washington to administer any federal law, the exemption shall not apply and the PLP shall comply with both the procedural and substantive requirements of the laws referenced in RCW 70.105D.090(1), including any requirements to obtain permits.

Q. Indemnification

The PLP agrees to indemnify and save and hold the State of Washington, its employees, and agents harmless from any and all claims or causes of action for death or injuries to persons or for loss or damage to property to the extent arising from or on account of acts or omissions of the PLP, its officers, employees, agents, or contractors in entering into and implementing this Order. However, the PLP shall not indemnify the State of Washington nor save nor hold its employees and agents harmless from any claims or causes of action to the extent arising out of the negligent acts or omissions of the State of Washington, or the employees or agents of the State, in entering into or implementing this Order.

IX. SATISFACTION OF ORDER

The provisions of this Order shall be deemed satisfied upon the PLP's receipt of written notification from Ecology that the PLP has completed the remedial activity required by this Order, as amended by any modifications, and that the PLP has complied with all other provisions of this Agreed Order.

X. ENFORCEMENT

Pursuant to RCW 70.105D.050, this Order may be enforced as follows:

A. The Attorney General may bring an action to enforce this Order in a state or federal court.

B. The Attorney General may seek, by filing an action, if necessary, to recover amounts spent by Ecology for investigative and remedial actions and orders related to the Site.

C. In the event the PLP refuses, without sufficient cause, to comply with any term of this Order, the PLP will be liable for:

1. Up to three (3) times the amount of any costs incurred by the State of Washington as a result of its refusal to comply; and

2. Civil penalties of up to twenty-five thousand dollars (\$25,000) per day for each day it refuses to comply.

D. This Order is not appealable to the Washington Pollution Control Hearings Board.

This Order may be reviewed only as provided under RCW 70.105D.060.

Effective date of this Order: 4/18/13

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

CITY OF BOTHELL


ROBERT W. WARREN, P.Hg., MBA
Section Manager
Toxics Cleanup Program
Northwest Regional Office
(425) 649-7054

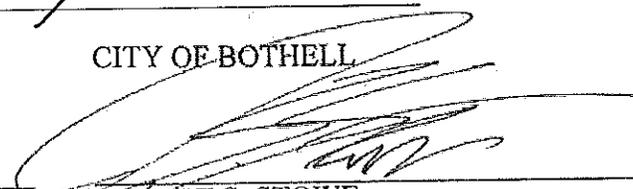

ROBERT S. STOWE
City Manager
18305 101st Avenue NE
Bothell, WA 98011
(425) 486-3256

EXHIBIT B
Scope of Work
Ultra Custom Care Cleaners Site

The Potentially Liable Person (PLP) shall take the following remedial actions per the Schedule of Deliverables, detailed in Exhibit C of this Agreed Order (Order) for conducting a remedial investigation and feasibility study (RI/FS), interim remedial action, and preparing a draft cleanup action plan (DCAP). The PLP will work cooperatively with Ecology to support public participation in the scoping and implementation of the work to be performed under this Agreed Order in accordance with Section VIII.H of the Order. All deliverables will adhere to Ecology Executive Policy 1-81 (Establishing Plain Talk at Ecology).

This Scope of Work is to investigate contamination at the Ultra Custom Care Cleaners Site located at and around 18304 Bothell Way NE in downtown Bothell, Washington. This Scope of Work is to be used by the PLP to develop Work Plans in order to complete the RI/FS and interim action at the Site as required by the Model Toxics Control Act (MTCA) cleanup regulation (Chapter 173-340 WAC).

The tasks for the Site will include the following:

- TASK I. Draft Remedial Investigation Report and Remedial Investigation Data Gaps Work Plan
- TASK II. Interim Action Work Plan
- TASK III. Implement Interim Action
- TASK IV. Draft Final Remedial Investigation Report
- TASK V. Feasibility Study and Draft Feasibility Study Report
- TASK VI. Draft Cleanup Action Plan

Task I: Draft Remedial Investigation Report and Remedial Investigation Data Gaps Work Plan

The City has previously conducted independent remedial actions in the form of remedial investigations. Remedial investigations must meet the requirements listed below. Pursuant to WAC 173-340-350, the PLP shall develop a remedial investigation report based on the existing

data to address any potential data gaps. The data collected shall be developed into an remedial investigation data gaps work plan, which shall also meet the requirements of WAC 173-340-350.

The purpose of the Remedial Investigation (RI) is to obtain the information necessary to understand site conditions in relationship to known or suspected releases of contaminants. Specifically, new and existing information will be used to characterize the Site, identify known and potential contaminant sources, and establish the nature and extent of contamination present to sufficiently complete a feasibility study and select an appropriate remedial action. The RI data must meet the criteria set out in the Quality Assurance Project Plan and be of sufficient quality to support the development of an appropriate remedial action for the Site. The investigation will meet the requirements stated in WAC 173-340-350 and, more specifically, must include the following elements:

a. Site Characterization

Collect analytical data on groundwater and soils contamination in the vicinity of the Site. Considering information on historical operations and hydrogeology, the data must be sufficient to delineate the type, depth, concentration, and areal extent of contaminants, along with information that addresses the rate and direction of contaminant movement.

1. Collect background information from previous environmental investigations, other Ecology information, and any other historical data.
2. Hydrogeology
An investigation of the regional and Site-specific geologic and hydrogeologic characteristics affecting groundwater flow through the Site:
 - a. Evaluate and monitor all existing monitoring wells that comply with the requirements of Chapter 173-160 WAC.
 - b. Install new groundwater monitoring wells and soil borings where needed.
 - c. Characterize site-specific stratigraphy and lithology based on well logs, maps, and any other information available, including identification of major aquifer and aquitard units.

- d. Estimate or measure hydraulic conductivity and porosity based on well logs, samples, aquifer tests, and other general information available.
- e. Prepare maps showing water levels and regional/site hydrogeology, and inferred direction of groundwater flow.

3. Soils

- a. Drill soil borings and/or excavate test pits, where needed. Collect and analyze surface and subsurface soil samples, as appropriate, to support characterization of vadose zone conditions and support contaminant fate and transport analyses.
- b. Characterize soil samples using the Unified Soil Classification System (USCS).
- c. Prepare boring logs for each boring.

b. Source and Contamination Characterization

- 1. Identify known or potential sources of contamination based on past facility practices, and reported spills or releases. Evaluate possible facility areas where hazardous substance use, storage, or release may have occurred using appropriate intrusive or non-intrusive methods of investigation.
- 2. Sampling locations will be selected to characterize the contamination including the nature and extent, along with fate and transport.
- 3. Analytical data collected must help describe the nature, extent, and the existing and potential sources of contamination.
- 4. Investigation of surface and subsurface contamination at the site will include surface water bodies.

c. Potential Receptor Information

Collect data to permit the evaluation of appropriate human and ecological cleanup standards (WAC 173-340-700 through -760). This may include:

1. Public Use/Site Access – potential uses of the affected properties, including zoning and land use. The presence or absence of controls on site access.
2. Potential Groundwater/Surface Water Uses – any consumptive, recreational, or other use of groundwater and surface water in the area, and used by which populations.
3. Potential Air and Soil-Gas Pathways – any basements or other spaces that are below grade.
4. Environmental Receptors – information on ecological environments at the site, including the presence of endangered or threatened species.

Task II. Interim Action Work Plans

The PLP will submit a draft and final Interim Action Work Plan for Ecology’s review and approval. The draft Interim Action Work Plan will also include the design and implementation of interim actions to facilitate protection of human health and the environment. The scope of the interim action may include source control via excavation and off-site disposal, and/or in situ remediation via chemical oxidation or other methods, followed by confirmational sampling, backfill with clean material, supplemental site characterization, pumping/treating contaminated groundwater, and groundwater monitoring in major areas of contamination at the site as identified in preliminary remedial investigative work. The Interim Action Work Plans shall include, as appropriate, submittal requirements in accordance with WAC 173-340-430(7).

The interim action shall be designed in a manner that will not foreclose reasonable alternatives for the final cleanup action in accordance with WAC 173-340-430(3)(b).

Task III. Implement Approved Interim Action

1. Implement approved interim action(s) after Ecology review and approval and public review and comment as necessary under WAC 173-340-600(16) and the State Environmental Policy Act, Chapter 43.21C RCW and Chapter 197-11 WAC.

2. Interim Action Report: An Interim Action Report shall be prepared as a separate deliverable that includes the information listed in WAC 173-340-430(7). A draft and final Interim Action Report shall be submitted for Ecology review and approval.

Task IV. Draft Final Remedial Investigation Report

The PLP will complete a report documenting the Remedial Investigation as required by WAC 173-340-350(7). This report will include the following elements:

1. Background Information:
 - a. Site History.
 - b. Previous Studies.
2. Nature and Extent of Contamination:

The PLP will prepare an assessment and description of the degree and extent of contamination. This should include:

 - a. Data Analysis – analyze all data collected during previous tasks and prepare supporting maps and tables.
 - b. Lab reports, previous investigations, well and boring logs, and any other documentation of characterization activities.
 - c. Presentation of conceptual site models.
3. Applicable Relevant and Appropriate Requirements (ARARs) Analysis
Identify Applicable State and Federal Laws for cleanup of the Site in accordance with WAC 173-340-710.
4. Cleanup Levels/Risk Assessment Analysis:

Perform a baseline MTCA cleanup levels analysis/baseline risk assessment characterizing the current and potential threats to public health and the environment that may be posed by hazardous substances at the facility. The assessment will integrate cleanup standards and risk assessment as required by WAC 173-340-357 and -708.

5. Discussion and Recommendations:
 - a. Interpret and discuss data to determine the nature and extent of the contamination and to support final recommendations for the Site.
 - b. A summary of all possible and suspected source areas of contamination based on the data collected will be included.
 - c. Any known or potential risks to the public health, welfare, and the environment should be discussed.
 - d. Recommendations should be provided identifying additional data requirements.

Task V. Feasibility Study and Draft Feasibility Study Report

a. Feasibility Study

The purpose of the feasibility study is to evaluate potential remedial technologies and approaches to enable selection of an appropriate remedial action for the Site. The selected remedy will be established by Ecology with the Draft Cleanup Action Plan (DCAP), to be developed following completion and approval of the final RI/FS Report. Ecology will provide an evaluation of preliminary cleanup standards for the Site, as appropriate, to guide cleanup alternatives development. The feasibility study must meet the requirements stated in WAC 173-340-350(8).

b. Progress Reports

The PLP shall submit progress reports every three months or as appropriately scheduled with Ecology. Progress reports shall be submitted to Ecology until satisfaction of the Agreed Order in accordance with Section IX of the Order. At a minimum, progress reports shall contain the following information regarding the preceding reporting period:

1. A description of the actions which have been taken to comply with the Order.
2. Summaries of sampling and testing reports and other data reports received by the PLP.
3. Summaries of deviations from approved work plans.

4. Summaries of contacts with representatives of the local community, public interest groups, press, and federal, state, or tribal governments.
5. Summaries of deviations, problems, or anticipated problems in meeting the schedule or objectives set forth in the Statement of Work and Work Plans.
6. Summaries of solutions developed and implemented or planned to address any actual or anticipated problems or delays.
7. Changes in key personnel.
8. A description of work planned for the next reporting period.

c. Feasibility Study Report

The PLP will complete a report documenting the feasibility study (FS) as required by WAC 173-340-350(8). This report will include the following elements:

1. Identification of contamination to be remediated.
2. Identification and initial screening of treatment technologies.
3. Proposed remedial alternatives and evaluation with respect to MTCA criteria.
4. Recommended alternative.

The PLP shall prepare an adequate number of copies of the draft FS report and submit them, including electronic copies in both Word (.doc) and Adobe (.pdf) format, to Ecology for review and comment. After addressing Ecology's comments on the draft FS report and after Ecology approval, the PLP shall prepare an adequate number of copies of the final FS report and submit them, including electronic copies in both Word (.doc) and Adobe (.pdf) format, to Ecology for distribution and public comment.

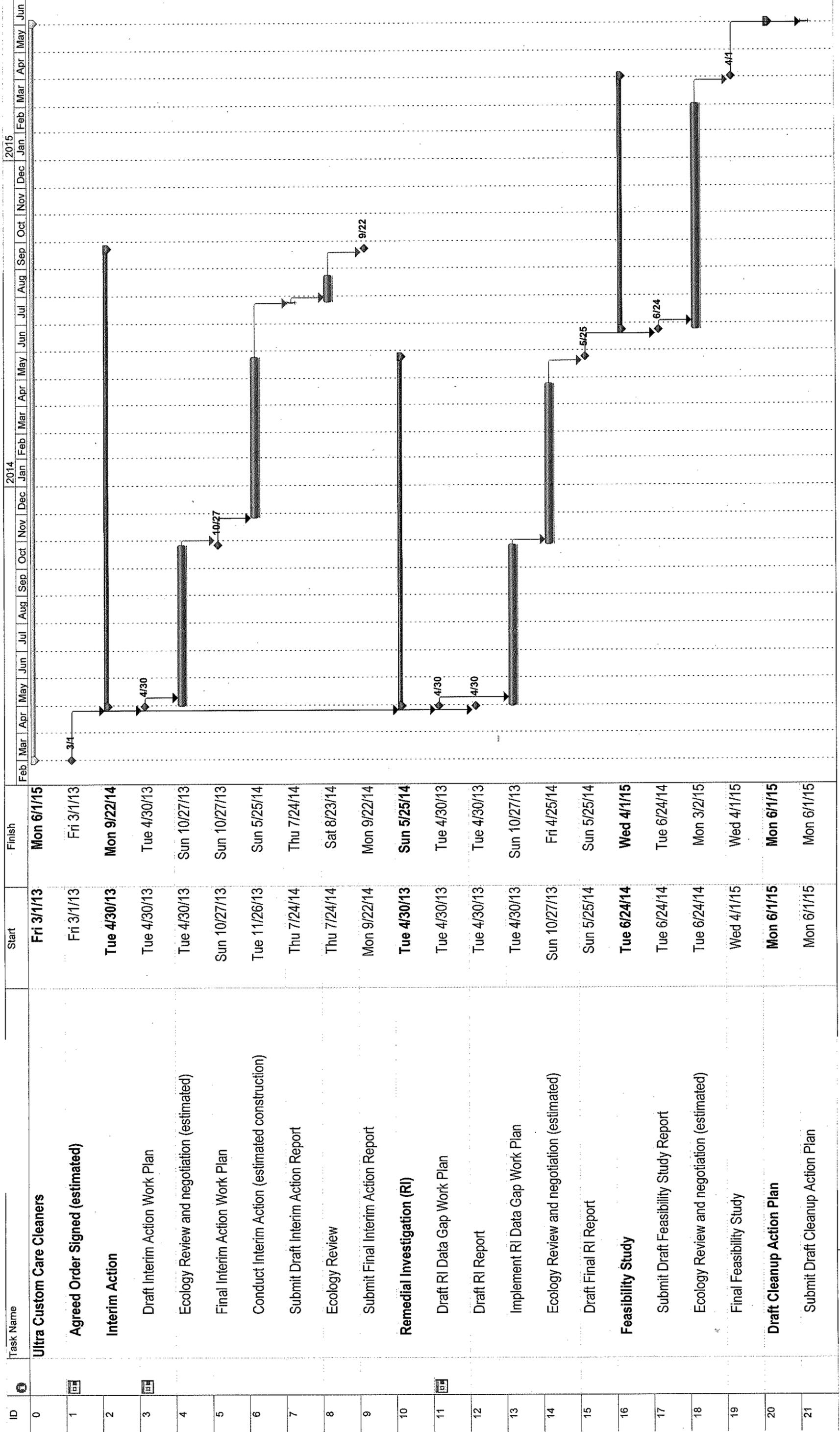
Task VI. Draft Cleanup Action Plan

The PLP will submit a draft Cleanup Action Plan (DCAP) for Ecology's review and approval. The DCAP will include, but not be limited to, the information listed under WAC 173-340-380. After receiving Ecology's comments on the DCAP, if any, the PLP shall revise the plan to address Ecology's comments and submit the final Cleanup Action Plan.

**EXHIBIT C:
Schedule of Deliverables**

Deliverables	Due dates and details¹
1. PLP submits draft remedial investigation (RI) report and RI data gaps work plan	60-days after effective date of Agreed Order.
2. PLP submits draft interim action work plan for source control	60-days after effective date of Agreed Order.
3. Ecology reviews	Ecology reviews draft RI report and RI data gaps workplan. Ecology reviews draft interim action work plan and determines if the interim actions are warranted, and if the interim action will not foreclose reasonable alternatives for the final cleanup action.
4. PLP implements RI data gaps work plan	Upon review, revisions, and approval of data gaps work plan by Ecology, PLP implements data gaps workplan within 30 days of Ecology's final approval.
5. PLP implements interim action work plan and public reviews	<p>Interim action(s) to be implemented if Ecology determines interim action(s) are warranted for the site.</p> <p>PLP incorporates Ecology revisions to interim action work plan.</p> <p>Ecology conducts public comment for the draft interim action work plan.</p> <p>PLP implements interim action(s) within 30-days after completion of public comment and Ecology approval.</p> <p>PLP prepares interim action report within 60-days of completion of interim action(s).</p> <p>Ecology reviews and approves the interim action report.</p>
6. PLP submits draft final RI report	Submit draft final RI report (including results of data gaps) 30 days after Ecology approves draft RI report and RI data gap results.
7. PLP submits draft feasibility study (FS) report and draft Cleanup Action Plan (DCAP)	Submit draft FS report and DCAP 30 days after Ecology approval of the draft final RI report. Conduct public comment on draft final RI report (including results of data gaps), draft FS report, and DCAP.

¹ A detailed schedule of deliverables is included below to provide additional clarification and guidance.



Task
 Milestone
 Progress
 Summary
 External Tasks
 External Milestone
 Deadline

APPENDIX B

Laboratory Reports



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

March 1, 2002



Kim Saganski
Farallon Consulting, LLC
320 3rd Avenue NE, Suite 200
Issaquah, WA 98027

Re: Analytical Data for Project 773-001
Laboratory Reference No. 0202-101

Dear Kim:

Enclosed are the analytical results and associated quality control data for samples submitted on February 19, 2002.

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

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

NWTPH-Gx

Date Extracted: 2-21-02
 Date Analyzed: 2-21&22-02

Matrix: Soil
 Units: mg/Kg (ppm)

Client ID: MW2-5.5-7
 Lab ID: 02-101-02

	Result	Flags	PQL
Benzene	ND		0.011
Toluene	ND		0.057
Ethyl Benzene	ND		0.057
m,p-Xylene	ND		0.057
o-Xylene	ND		0.057
TPH-Gas	1800	Z	28
Surrogate Recovery: Fluorobenzene	83%		

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-21-02
Date Analyzed: 2-21-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB0221S2

	Result	Flags	PQL
Benzene	ND		0.010
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	91%		

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

**NWTPH-Gx
 DUPLICATE QUALITY CONTROL**

Date Extracted: 2-21-02
 Date Analyzed: 2-21&22-02

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID:	02-101-02 Original	02-101-02 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	313	254	21	
Surrogate Recovery:				
Fluorobenzene	83%	88%		

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

**NWTPH-Gx
 MS/MSD QUALITY CONTROL**

Date Extracted: 2-21-02
 Date Analyzed: 2-21-02

Matrix: Soil
 Units: mg/Kg (ppm)

Spike Level: 1.00 ppm

Lab ID:	02-107-02 MS	Percent Recovery	02-107-02 MSD	Percent Recovery	RPD	Flags
Benzene	0.799	80	0.785	78	1.8	
Toluene	0.775	78	0.763	76	1.6	
Ethyl Benzene	0.816	82	0.804	80	1.5	
m,p-Xylene	0.789	79	0.777	78	1.6	
o-Xylene	0.809	81	0.796	80	1.6	
Surrogate Recovery: Fluorobenzene	86%		85%			

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 2-25-02
 Date Analyzed: 2-25-02
 Matrix: Soil
 Units: mg/Kg (ppm)
 Lab ID: 02-101-02
 Client ID: MW2-5.5-7

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0057
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0057
Methylene Chloride	0.029	H	0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	0.0019		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0057
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.015		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 02-101-02
 Client ID: MW2-5.5-7

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	0.0012		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0057
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0057
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	117	65-125
Toluene, d8	88	77-116
4-Bromofluorobenzene	84	67-133

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 2-25-02
 Date Analyzed: 2-25-02
 Matrix: Soil
 Units: mg/Kg (ppm)
 Lab ID: 02-101-14
 Client ID: MW1-2.5-4

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0057
Methylene Chloride	ND		0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0057
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0022		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 02-101-14
 Client ID: MW1-2.5-4

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0057
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0057
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	65-125
Toluene, d8	108	77-116
4-Bromofluorobenzene	100	67-133

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Date Extracted: 2-25-02
 Date Analyzed: 2-25-02

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID: MB0225S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.001
Chloromethane	ND		0.001
Vinyl Chloride	ND		0.001
Bromomethane	ND		0.005
Chloroethane	ND		0.001
Trichlorofluoromethane	ND		0.001
1,1-Dichloroethene	ND		0.001
Iodomethane	ND		0.005
Methylene Chloride	ND		0.005
(trans) 1,2-Dichloroethene	ND		0.001
1,1-Dichloroethane	ND		0.001
2,2-Dichloropropane	ND		0.001
(cis) 1,2-Dichloroethene	ND		0.001
Bromochloromethane	ND		0.001
Chloroform	ND		0.001
1,1,1-Trichloroethane	ND		0.001
Carbon Tetrachloride	ND		0.001
1,1-Dichloropropene	ND		0.001
1,2-Dichloroethane	ND		0.001
Trichloroethene	ND		0.001
1,2-Dichloropropane	ND		0.001
Dibromomethane	ND		0.001
Bromodichloromethane	ND		0.001
2-Chloroethyl Vinyl Ether	ND		0.005
(cis) 1,3-Dichloropropene	ND		0.001
(trans) 1,3-Dichloropropene	ND		0.001
1,1,2-Trichloroethane	ND		0.001
Tetrachloroethene	ND		0.001
1,3-Dichloropropane	ND		0.001

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Lab ID: MB0225S1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.001
1,2-Dibromoethane	ND		0.001
Chlorobenzene	ND		0.001
1,1,1,2-Tetrachloroethane	ND		0.001
Bromoform	ND		0.001
Bromobenzene	ND		0.001
1,1,2,2-Tetrachloroethane	ND		0.001
1,2,3-Trichloropropane	ND		0.001
2-Chlorotoluene	ND		0.001
4-Chlorotoluene	ND		0.001
1,3-Dichlorobenzene	ND		0.001
1,4-Dichlorobenzene	ND		0.001
1,2-Dichlorobenzene	ND		0.001
1,2-Dibromo-3-chloropropane	ND		0.005
1,2,4-Trichlorobenzene	ND		0.001
Hexachlorobutadiene	ND		0.005
1,2,3-Trichlorobenzene	ND		0.001

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	124	65-125
Toluene, d8	106	77-116
4-Bromofluorobenzene	95	67-133

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

**HALOGENATED VOLATILES by EPA 8260B
 MS/MSD QUALITY CONTROL**

Date Extracted: 2-25-02
 Date Analyzed: 2-25-02

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID: 02-101-14

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	0.0500	0.0297	59	0.0347	69	16	
Benzene	0.0500	0.0505	101	0.0555	111	9.4	
Trichloroethene	0.0500	0.0435	87	0.0493	99	12	
Toluene	0.0500	0.0534	107	0.0592	118	10	
Chlorobenzene	0.0500	0.0494	99	0.0553	111	11	

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 2-26-02
 Date Analyzed: 2-26-02
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 02-101-15
 Client ID: MW1-26-29-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	2.3		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	0.21		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	29		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 02-101-15
 Client ID: MW1-26-29-W

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	110	71-133
Toluene, d8	98	80-151
4-Bromofluorobenzene	80	75-139

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL

page 1 of 2

Date Extracted: 2-26-02
 Date Analyzed: 2-26-02
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0226W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Lab ID: MB0226W1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	103	71-133
Toluene, d8	96	80-151
4-Bromofluorobenzene	85	75-139

Date of Report: March 1, 2002
 Samples Submitted: February 19, 2002
 Lab Traveler: 02-101
 Project: 773-001

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 2-26-02
 Date Analyzed: 2-26-02

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0226W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	10.0	6.96	70	7.50	75	7.4	
Benzene	10.0	10.1	101	10.7	107	6.0	
Trichloroethene	10.0	8.70	87	8.99	90	3.3	
Toluene	10.0	10.1	101	10.5	105	3.5	
Chlorobenzene	10.0	9.78	98	9.54	95	2.5	

Date of Report: March 1, 2002
Samples Submitted: February 19, 2002
Lab Traveler: 02-101
Project: 773-001

Date Analyzed: 2-21-02

% MOISTURE

Client ID	Lab ID	% Moisture
MW2 - 5.5-7	02-101-02	12
MW1 - 2.5-4	02-101-14	13



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.
 - D - Data from 1: ____ dilution.
 - 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.
 - G - Insufficient sample quantity for duplicate analysis.
 - 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 (toluene-naphthalene) are present in the sample.
 - O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.
 - 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.
 - 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 silica gel cleanup procedure.
 - Y - Sample extract treated with an acid cleanup procedure.
 - Z - Gasoline result attributed to a single peak. Suggest a full 8260B analysis.
- ND - Not Detected at PQL
 MRL - Method Reporting Limit
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

Company: Fallon Consulting
 Project No.: 773-031
 Project Name: 117th Custom Care
 Project Manager: Kim Sabanski

Turnaround Request
 (in working days)

(Check One)

- Same Day 1 Day
 2 Day 3 Day
 Standard
 (Hydrocarbon analyses: 5 days,
 All other analyses: 7 days)

Project Manager:

Laboratory No. **02-101**

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH	% Moisture	
6	MW1-25-205	2-14-02	12:42	Sd.1	1					H												
7	MW1-7-85	2-14-02	12:12	Sd.1	1																	
8	MW1-85-15	"	12:13	"	"																	
9	MW1-19-225	"	12:27	"	"																	
10	MW1-55-7	"	12:09	"	"																	
11	MW1-4-55	"	12:05	"	"																	
12	MW1-13-145	"	12:20	"	"																	
13	MW1-1-25	"	11:54	"	"																	
14	MW1-25-4	"	12:00	"	"																	
15	MW1-26-24-W	2-14-02	13:10	H ₂ O	3																	(X)

RELINQUISHED BY: John Schmitt
 FIRM: OnSite Environmental
 DATE: 2/19/02
 TIME: 1725

RECEIVED BY: Stacy Dina
 FIRM: OnSite Environmental
 DATE: 2-19-02
 TIME: 5:30 pm

COMMENTS:

H = H₂O
(X) Attached 2/21/02

REVIEWED BY: _____ DATE REVIEWED: _____

Chromatographs with final report



**OnSite
Environmental Inc.**
Analytical Testing and Mobile Laboratory Services



March 5, 2002

Kim Saganski
Farallon Consulting, LLC
320 3rd Avenue NE, Suite 200
Issaquah, WA 98027

Re: Analytical Data for Project 773-001
Laboratory Reference No. 0202-149

Dear Kim:

Enclosed are the analytical results and associated quality control data for samples submitted on February 27, 2002.

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

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 3-4-02
 Date Analyzed: 3-4-02
 Matrix: Soil
 Units: mg/Kg (ppm)
 Lab ID: 02-149-03
 Client ID: MW3-4.5-6.0

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0013
Chloromethane	ND		0.0013
Vinyl Chloride	ND		0.0013
Bromomethane	ND		0.0013
Chloroethane	ND		0.0013
Trichlorofluoromethane	ND		0.0013
1,1-Dichloroethene	ND		0.0013
Iodomethane	ND		0.0013
Methylene Chloride	ND		0.0063
(trans) 1,2-Dichloroethene	ND		0.0063
1,1-Dichloroethane	ND		0.0013
2,2-Dichloropropane	ND		0.0013
(cis) 1,2-Dichloroethene	ND		0.0013
Bromochloromethane	ND		0.0013
Chloroform	ND		0.0013
1,1,1-Trichloroethane	ND		0.0013
Carbon Tetrachloride	ND		0.0013
1,1-Dichloropropene	ND		0.0013
1,2-Dichloroethane	ND		0.0013
Trichloroethene	ND		0.0013
1,2-Dichloropropane	ND		0.0013
Dibromomethane	ND		0.0013
Bromodichloromethane	ND		0.0013
2-Chloroethyl Vinyl Ether	ND		0.0013
(cis) 1,3-Dichloropropene	ND		0.0063
(trans) 1,3-Dichloropropene	ND		0.0013
1,1,2-Trichloroethane	ND		0.0013
Tetrachloroethene	ND		0.0013
1,3-Dichloropropane	0.0050		0.0013
	ND		0.0013

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
page 2 of 2

Lab ID: 02-149-03
Client ID: MW3-4.5-6.0

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0013
1,2-Dibromoethane	ND		0.0013
Chlorobenzene	ND		0.0013
1,1,1,2-Tetrachloroethane	ND		0.0013
Bromoform	ND		0.0013
Bromobenzene	ND		0.0013
1,1,2,2-Tetrachloroethane	ND		0.0013
1,2,3-Trichloropropane	ND		0.0013
2-Chlorotoluene	ND		0.0013
4-Chlorotoluene	ND		0.0013
1,3-Dichlorobenzene	ND		0.0013
1,4-Dichlorobenzene	ND		0.0013
1,2-Dichlorobenzene	ND		0.0013
1,2-Dibromo-3-chloropropane	ND		0.0063
1,2,4-Trichlorobenzene	ND		0.0013
Hexachlorobutadiene	ND		0.0063
1,2,3-Trichlorobenzene	ND		0.0013

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	107	65-125
Toluene, d8	110	77-116
4-Bromofluorobenzene	102	67-133

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
page 1 of 2

Date Extracted: 3-4-02
Date Analyzed: 3-4-02

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 02-149-10
Client ID: SB5-0.33-3.0

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0056
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0056
Methylene Chloride	ND		0.0056
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0056
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0061		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 02-149-10
 Client ID: SB5-0.33-3.0

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0056
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0056
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	119	65-125
Toluene, d8	110	77-116
4-Bromofluorobenzene	95	67-133

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 3-4-02
 Date Analyzed: 3-4-02
 Matrix: Soil
 Units: mg/Kg (ppm)
 Lab ID: 02-149-14
 Client ID: SB6-2.0-3.0

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0053
Methylene Chloride	ND		0.0053
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0053
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0013		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 02-149-14
 Client ID: SB6-2.0-3.0

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0053
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0053
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	122	65-125
Toluene, d8	108	77-116
4-Bromofluorobenzene	96	67-133

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 3-4-02
 Date Analyzed: 3-4-02
 Matrix: Soil
 Units: mg/Kg (ppm)
 Lab ID: 02-149-17
 Client ID: SB7-0.5-1.5

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0054
Methylene Chloride	ND		0.0054
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0054
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0097		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 02-149-17
 Client ID: SB7-0.5-1.5

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0054
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0054
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	117	65-125
Toluene, d8	111	77-116
4-Bromofluorobenzene	96	67-133

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL

page 1 of 2

Date Extracted: 3-4-02
 Date Analyzed: 3-4-02
 Matrix: Soil
 Units: mg/Kg (ppm)
 Lab ID: MB0304S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0010
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0010
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL

page 2 of 2

Lab ID: MB0304S1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	65-125
Toluene, d8	111	77-116
4-Bromofluorobenzene	103	67-133

Date of Report: March 5, 2002
 Samples Submitted: February 27, 2002
 Lab Traveler: 02-149
 Project: 773-001

**HALOGENATED VOLATILES by EPA 8260B
 MS/MSD QUALITY CONTROL**

Date Extracted: 3-4-02
 Date Analyzed: 3-4-02
 Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID: 02-149-03

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	0.0500	0.0362	72	0.0367	73	1.6	
Benzene	0.0500	0.0593	119	0.0612	122	3.2	
Trichloroethene	0.0500	0.0524	105	0.0537	107	2.4	
Toluene	0.0500	0.0633	127	0.0648	130	2.3	
Chlorobenzene	0.0500	0.0552	110	0.0580	116	4.9	

Date of Report: March 5, 2002
Samples Submitted: February 27, 2002
Lab Traveler: 02-149
Project: 773-001

% MOISTURE

Date Analyzed: 3-4-02

Client ID	Lab ID	% Moisture
MW3-4.5-6.0	02-149-03	21
SB5-0.33-3.0	02-149-10	10
SB6-2.0-3.0	02-149-14	5.0
SB7-0.5-1.5	02-149-17	7.0



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.
 - D - Data from 1:___ dilution.
 - 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.
 - G - Insufficient sample quantity for duplicate analysis.
 - 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 (toluene-naphthalene) are present in the sample.
 - O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.
 - 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.
 - 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 silica gel cleanup procedure.
 - Y - Sample extract treated with an acid cleanup procedure.
 - Z -
- ND - Not Detected at PQL
 MRL - Method Reporting Limit
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



M OnSite Environmental Inc.

14648 NE 95th Street • Redmond, WA 98052
 Fax: (425) 885-4603 • Phone: (425) 883-3881

Chain of Custody

Company: **FARALLON**
 Project No: **773-001**
 Project Name: **Urrua Custom Gate - Borell**
 Project Manager: **Kim Szyanski**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Day 3 Day
 Standard
 (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
 (other)

Project Chemist: *[Signature]*
 Laboratory No. **02-149**
 Requested Analysis

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Dx	
Volatiles by 8260B	
Halogenated Volatiles by 8260B	
Semivolatiles by 8270C	
PAHs by 8270C	
PCB's by 8082	
Pesticides by 8081	
Total RCRA Metals (8)	
TCLP Metals	
VPH	
EPH	
% Moisture	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
1	MW3-1.5	2/26/02	10:50	S	1
2	MW3-3.0-4.5		11:00		
3	MW3-4.5-6.0		11:05		
4	MW3-7.5-8.0		11:10		
5	MW3-8.0-8.5		11:13		
6	MW3-8.5-9.0		11:25		
7	MW3-9.0-10.0		11:30		
8	MW3-10.0-11.0		11:45		
9	MW3-12.5-13.0		13:45		
10	SBS-0.33-3.0		14:00		
11	SBS-3.0-3.5		14:02		
12	SBS-5.0-6.0				

RELINQUISHED BY: **John S. [Signature]** DATE: **2/27/02** TIME: **11:00**
 RECEIVED BY: **Shirley Kent** DATE: **2.27.02** TIME: **11:00**
 FIRM: **FARALLON**

REVIEWED BY: _____ DATE REVIEWED: _____
 COMMENTS: _____
 Chromatographs with final report

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy



Chain of Custody

14648 NE 95th Street • Redmond, WA 98052
Fax: (425) 885-4603 • Phone: (425) 883-3981

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard

(Hydrocarbon analyses: 5 days,
All other analyses: 7 days)

(other)

Project Chemist:

[Signature]

Laboratory No.

02-149

Requested Analysis

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Dx	
Volatiles by 8260B	
Halogenated Volatiles by 8260B	X
Semivolatiles by 8270C	
PAHs by 8270C	
PCB's by 8082	
Pesticides by 8081	
Total RCRA Metals (8)	
TCLP Metals	
VPH	
EPH	
% Moisture	X

Company: **FARALLON**

Project No.: **773-001**

Project Name: **Ultra Custom Care - BENTLEY**

Project Manager: **Kim SAGANSKI**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
13	SB6- 0.5-1.0	2/25/02	1410	S	1
14	SB6- 2.0-3.0		1410		
15	SB6- 3.0-4.0		1430		
16	SB6- 5.0-6.0		1433		
17	SB7- 0.5-1.5		1438		
18	SB7- 2.0-3.0		1436		
19	SB7- 3.0-4.0		1450		
20	SB7- 5.0-6.0		1450		

REINQUISHED BY: **John S. L. St**

DATE: **2/27/02**

FIRM: **FARALLON**

REINQUISHED BY: **[Signature]**

DATE: **11:00**

FIRM: **[Signature]**

RECEIVED BY: **[Signature]**

DATE: **2-27-02**

FIRM: **[Signature]**

RECEIVED BY: **[Signature]**

DATE: **[Signature]**

FIRM: **[Signature]**

REVIEWED BY: _____

DATE REVIEWED: _____

COMMENTS: _____

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Chromatographs with final report

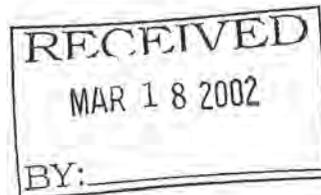


**OnSite
Environmental Inc.**
Analytical Testing and Mobile Laboratory Services

PROJECT

March 14, 2002

Kim Saganski
Farallon Consulting, LLC
320 3rd Avenue NE, Suite 200
Issaquah, WA 98027



Re: Analytical Data for Project 773-001
Laboratory Reference No. 0203-039

Dear Kim:

Enclosed are the analytical results and associated quality control data for samples submitted on March 6, 2002.

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

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

Case Narrative

Samples were collected on March 6, 2002. Samples were maintained at the laboratory at 4°C and followed SW846 analysis and extraction methods.

NWTPH Gx Analysis

Any 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.

Halogenated Volatiles EPA 8260B Analysis

Any 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.

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

NWTPH-Gx

Date Extracted: 3-7-02
Date Analyzed: 3-7-02

Matrix: Water
Units: ug/L (ppb)

Client ID: **MW-2**
Lab ID: 03-039-03

	Result	Flags	PQL
TPH-Gas	ND		100

Surrogate Recovery:
Fluorobenzene 97%

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted: 3-7-02
Date Analyzed: 3-7-02

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0307W1

	Result	Flags	PQL
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	98%		

Date of Report: March 14, 2002
Samples Submitted: March 6, 2002
Lab Traveler: 03-039
Project: 773-001

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 3-7-02
Date Analyzed: 3-7-02

Matrix: Water
Units: ug/L (ppb)

Lab ID:	02-152-06 Original	02-152-06 Duplicate	RPD	Flags
TPH-Gas	ND	ND	NA	
Surrogate Recovery: Fluorobenzene	97%	99%		

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 Page 1 of 2

Date Extracted: 3-12-02
 Date Analyzed: 3-12-02
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 03-039-01
 Client ID: MW-1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	0.38		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	36		0.20
Bromochloromethane	ND		0.20
Chloroform	2.0		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	18		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	880		20
1,3-Dichloropropane	ND		0.20

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 03-039-01
 Client ID: MW-1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	122	71-133
Toluene, d8	106	80-151
4-Bromofluorobenzene	83	75-139

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 3-14-02
 Date Analyzed: 3-14-02
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 03-039-02
 Client ID: MW-3

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	0.44		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	4.7		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 03-039-02
 Client ID: MW-3

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	127	71-133
Toluene, d8	99	80-151
4-Bromofluorobenzene	75	75-139

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 3-14-02
 Date Analyzed: 3-14-02
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 03-039-03
 Client ID: MW-2

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.41		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 03-039-03
 Client ID: MW-2

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	128		71-133
Toluene, d8	99		80-151
4-Bromofluorobenzene	77		75-139

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 3-12-02
 Date Analyzed: 3-12-02
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0312W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Lab ID: MB0312W1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	130		71-133
Toluene, d8	102		80-151
4-Bromofluorobenzene	79		75-139

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL

Page 1 of 2

Date Extracted: 3-14-02
 Date Analyzed: 3-14-02
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0314W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL

Page 2 of 2

Lab ID: MB0314W1

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	124	71-133
Toluene, d8	98	80-151
4-Bromofluorobenzene	78	75-139

Date of Report: March 14, 2002
 Samples Submitted: March 6, 2002
 Lab Traveler: 03-039
 Project: 773-001

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 3-14-02
 Date Analyzed: 3-14-02

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0314W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	10.0	7.86	79	8.06	81	2.5	
Benzene	10.0	11.1	111	11.2	112	0.44	
Trichloroethene	10.0	8.77	88	9.10	91	3.7	
Toluene	10.0	10.4	104	10.8	108	3.2	
Chlorobenzene	10.0	9.41	94	9.65	97	2.6	



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.
 - D - Data from 1: ___ dilution.
 - 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.
 - G - Insufficient sample quantity for duplicate analysis.
 - 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 (toluene-naphthalene) are present in the sample.
 - O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.
 - 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.
 - 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 silica gel cleanup procedure.
 - Y - Sample extract treated with an acid cleanup procedure.
 - Z -
- ND - Not Detected at PQL
 MRL - Method Reporting Limit
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

Company: FARRISON
 Project No.: 773-001
 Project Name: ULTRIA Custom Care - Bothell
 Project Manager: Kim Saganiski

Turnaround Request
 (in working days)

(Check One)

- Same Day 1 Day
 2 Day 3 Day
 Standard
 (Hydrocarbon analyses: 5 days,
 All other analyses: 7 days)

Project Manager: [Signature]

Laboratory No. **03-039**

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH	% Moisture	
1	MW-1	3/6/02	1504	W	3					X												
2	MW-3		1555							X												
3	MW-2		1643				X			X												

RELINQUISHED BY: John Summit DATE: 3/6/02 TIME: 1800
 FIRM: FARRISON
 RELINQUISHED BY: [Signature] DATE: 3-6-02 TIME: 6:00 pm
 FIRM: ONSITE Environmental
 RECEIVED BY: [Signature] DATE: 3-6-02 TIME: 6:00 pm
 FIRM: ONSITE Environmental
 DATE REVIEWED: _____

COMMENTS:

Chromatographs with final report



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 1
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:8 7/22/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	20	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 1
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:8 7/22/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: *CRA*



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 15
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:8 7/26/04 1125

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 15
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:8 7/26/04 1125

DATA RESULTS

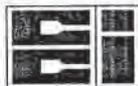
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

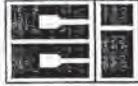
DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 11
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:8 7/26/04 930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/6/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 11
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:8 7/26/04 930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/6/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
 295 NE GILMAN BLVD., SUITE 201
 ISSAQUAH, WA 98027

DATE: 8/9/04
 CCIL JOB #: 407102
 CCIL SAMPLE #: 3
 DATE RECEIVED: 7/26/04
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
 CLIENT SAMPLE ID: B-4:8 7/23/04 1440

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/6/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 3
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:8 7/23/04 1440

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/6/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: *CR*



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

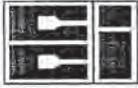
DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 7
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:8 7/26/04 730

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/6/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,1,1,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 7
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:8 7/26/04 730

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/6/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/6/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

C. R. [Signature]



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 5
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:8 7/22/04 1440

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	12	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 5
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:8 7/22/04 1440

DATA RESULTS

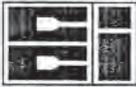
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 17
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:8 7/23/04 1250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 17
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:8 7/23/04 1250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 14
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:8 7/23/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 14
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:8 7/23/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	8/4/04	CCN

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC,
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 10
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:8 7/23/04 800

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	7/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 10
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:8 7/23/04 800

DATA RESULTS

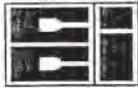
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	7/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	7/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

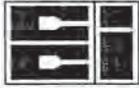
DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 7
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13:10 10/25/04 2250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 7
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13:10 10/25/04 2250

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 9
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14:10 10/25/04 2350

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 9
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14:10 10/25/04 2350

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE. REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRF



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 11
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-15:5 10/26/04 0030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 11
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-15:5 10/26/04 0030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 12
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16:10 10/26/04 0100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CHLOROFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<5)	UG/KG	10/28/04	CCN
CHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOFORM	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
BROMOBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 12
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16:10 10/26/04 0100

DATA RESULTS

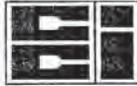
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
2-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<50)	UG/KG	10/28/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<10)	UG/KG	10/28/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 2
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:9 7/22/04 920

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/2/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	31	UG/L	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROETHENE	EPA-8260	110	UG/L	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TETRACHLOROETHYLENE	EPA-8260	6400	UG/L	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 2
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:9 7/22/04 920

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/2/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
NITRATE	EPA-300.0	9.0	MG/L	7/23/04	RAB
SULFATE	EPA-300.0	12	MG/L	7/23/04	RAB
DISSOLVED IRON	EPA-6010	0.33	MG/L	7/26/04	RAB
DISSOLVED MANGANESE	EPA-6010	0.049	MG/L	7/26/04	RAB
TOTAL ORGANIC CARBON	EPA-415.2	4.3	MG/L	8/2/04	ARI

NOTE: EPA-8260 DILUTION ANALYSIS DATED 8/6/04 PERFORMED ONE DAY OUTSIDE OF HOLD TIME.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 3
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:26 7/22/04 1030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/2/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TETRACHLOROETHYLENE	EPA-8260	5	UG/L	8/2/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 3
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:26 7/22/04 1030

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/2/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
HEXACHLORO 1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

C. R. A.



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 4
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:40 7/22/04 1400

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/2/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
TETRACHLOROETHYLENE	EPA-8260	5	UG/L	8/2/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 4
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-1:40 7/22/04 1400

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/2/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/2/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 16
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:9 7/26/04 1140

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	8	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	14	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 16
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:9 7/26/04 1140

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

*ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

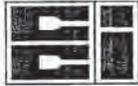
DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 17
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:22 7/26/04 1215

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 17
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:22 7/26/04 1215

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

*"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 18
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:36 7/26/04 1300

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 18
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-2:36 7/26/04 1300

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO 1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

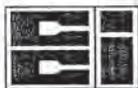
DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 12
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:9 7/26/04 945

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	410	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 12
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:9 7/26/04 945

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 13
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:22 7/26/04 1020

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 13
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:22 7/26/04 1020

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 14
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:36 7/26/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 14
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-3:36 7/26/04 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 4
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:9 7/23/04 1505

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	160	UG/L	8/6/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	210	UG/L	8/6/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	1900	UG/L	8/6/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 4
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:9 7/23/04 1505

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 5
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:22 7/23/04 1540

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 5
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:22 7/23/04 1540

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

*"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

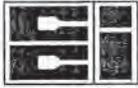
DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 6
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C-142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:36 7/23/04 1610

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 6
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-4:36 7/23/04 1610

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 8
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:9 7/26/04 750

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/8/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TETRACHLOROETHYLENE	EPA-8260	4	UG/L	8/8/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 8
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:9 7/26/04 750

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/8/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN

*"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

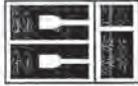
DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 9
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:22 7/26/04 815

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/8/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
CHLOROENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 9
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:22 7/26/04 815

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/8/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/8/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 10
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:36 7/26/04 855

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/9/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 10
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-5:36 7/26/04 855

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/9/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/9/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 6
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:9 7/22/04 1450

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	9	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 6
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:9 7/22/04 1450

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
NITRATE	EPA-300.0	14	MG/L	7/23/04	RAB
SULFATE	EPA-300.0	13	MG/L	7/23/04	RAB
DISSOLVED IRON	EPA-6010	0.03	MG/L	7/26/04	RAB
DISSOLVED MANGANESE	EPA-6010	0.081	MG/L	7/26/04	RAB
TOTAL ORGANIC CARBON	EPA-415.2	1.7	MG/L	8/2/04	ARI

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 7
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:22 7/22/04 1520

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 7
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:22 7/22/04 1520

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* ND* INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 8
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:36 7/22/04 1600

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 8
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-6:36 7/22/04 1600

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

 CERTIFICATE OF ANALYSIS

 CLIENT: ENVIRONMENTAL PARTNERS, INC.
 295 NE GILMAN BLVD., SUITE 201
 ISSAQUAH, WA 98027

 DATE: 8/6/04
 CCIL JOB #: 407098
 CCIL SAMPLE #: 19
 DATE RECEIVED: 7/23/04
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

 CLIENT PROJECT ID: 46101.0
 CLIENT SAMPLE ID: B-7:9 7/23/04 1310

 DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	4	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 19
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:9 7/23/04 1310

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

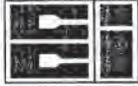
DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 1
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:22 7/23/04 1340

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 1
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:22 7/23/04 1340

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 2
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:36 7/23/04 1415

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102
CCIL SAMPLE #: 2
DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-7:36 7/23/04 1415

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 15
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:9 7/23/04 1100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	5	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 15
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:9 7/23/04 1100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

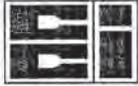
DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 16
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:22 7/23/04 1130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 16
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:22 7/23/04 1130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: *CRA*



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 18
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:32 7/23/04 1220

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 18
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-8:32 7/23/04 1220

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

C. R. A.



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 11
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:9 7/23/04 820

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	3	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 11
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:9 7/23/04 820

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
NITRATE	EPA-300.0	11	MG/L	7/23/04	RAB
SULFATE	EPA-300.0	10	MG/L	7/23/04	RAB
DISSOLVED IRON	EPA-6010	0.04	MG/L	7/26/04	RAB
DISSOLVED MANGANESE	EPA-6010	0.039	MG/L	7/26/04	RAB
TOTAL ORGANIC CARBON	EPA-415.2	5.2	MG/L	8/2/04	ARI

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

C. R. A.



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 12
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:22 7/23/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/5/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 12
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:22 7/23/04 900

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/5/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/5/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 13
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:36 7/23/04 930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 13
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: B-9:36 7/23/04 930

DATA RESULTS

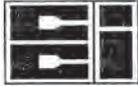
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 2
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-10 10/25/04 1915

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	23	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 2
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-10 10/25/04 1915

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

*"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 4
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-11 10/25/04 2015

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	3	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	18	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 4
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-11 10/25/04 2015

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 6
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-12 10/25/04 2130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	8	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,1,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 6
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-12 10/25/04 2130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CR



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

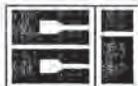
DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 8
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13 10/25/04 2315

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	10/29/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
TETRACHLOROETHYLENE	EPA-8260	18	UG/L	10/29/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 8
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-13 10/25/04 2315

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	10/29/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	10/29/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 10
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14 10/26/04 0010

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	11/1/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TETRACHLOROETHYLENE	EPA-8260	16	UG/L	11/1/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 10
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-14 10/26/04 0010

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	11/1/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 13
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16 10/26/04 0115

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	11/1/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
TETRACHLOROETHYLENE	EPA-8260	30	UG/L	11/1/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114
CCIL SAMPLE #: 13
DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101
CLIENT SAMPLE ID: B-16 10/26/04 0115

DATA RESULTS

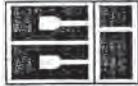
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	11/1/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	11/1/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 9
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: MW-1 7/22/04 1310

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
DICHLORODIFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
VINYL CHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROFLUOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
METHYLENE CHLORIDE	EPA-8260	ND(<5)	UG/L	8/4/04	CCN
TRANS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,2-DICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,1-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CARBON TETRACHLORIDE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRICHLOROETHENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
DIBROMOMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMODICHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TRANS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CIS-1,3-DICHLOROPROPENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2-TRICHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
TETRACHLOROETHYLENE	EPA-8260	4	UG/L	8/4/04	CCN
DIBROMOCHLOROMETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMOETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
CHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOFORM	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,1,2,2-TETRACHLOROETHANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROPROPANE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
BROMOBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
2-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098
CCIL SAMPLE #: 9
DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0
CLIENT SAMPLE ID: MW-1 7/22/04 1310

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
4-CHLOROTOLUENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,3-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,4-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260	ND(<10)	UG/L	8/4/04	CCN
1,2,4-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
HEXACHLORO1,3-BUTADIENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN
1,2,3-TRICHLOROBENZENE	EPA-8260	ND(<2)	UG/L	8/4/04	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102

DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
407102-01	EPA-8260	1,2-DCE-d4	104
407102-01	EPA-8260	4-BFB	113
407102-02	EPA-8260	1,2-DCE-d4	106
407102-02	EPA-8260	4-BFB	107
407102-03	EPA-8260	1,2-DCE-d4	113
407102-03	EPA-8260	4-BFB	91
407102-04	EPA-8260	1,2-DCE-d4	104
407102-04	EPA-8260	4-BFB	115
407102-03 (DILUTION)	EPA-8260	1,2-DCE-d4	99
407102-03 (DILUTION)	EPA-8260	4-BFB	99
407102-05	EPA-8260	1,2-DCE-d4	100
407102-05	EPA-8260	4-BFB	104
407102-06	EPA-8260	1,2-DCE-d4	104
407102-06	EPA-8260	4-BFB	115
407102-07	EPA-8260	1,2-DCE-d4	108
407102-07	EPA-8260	4-BFB	82
407102-08	EPA-8260	1,2-DCE-d4	102
407102-08	EPA-8260	4-BFB	106
407102-09	EPA-8260	1,2-DCE-d4	103
407102-09	EPA-8260	4-BFB	101
407102-10	EPA-8260	1,2-DCE-d4	101
407102-10	EPA-8260	4-BFB	110
407102-11	EPA-8260	1,2-DCE-d4	107
407102-11	EPA-8260	4-BFB	84



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/9/04
CCIL JOB #: 407102

DATE RECEIVED: 7/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
407102-12	EPA-8260	1,2-DCE-d4	103
407102-12	EPA-8260	4-BFB	101
407102-12 (TETRACHLOROETHENE)	EPA-8260	1,2-DCE-d4	103
407102-12 (TETRACHLOROETHENE)	EPA-8260	4-BFB	107
407102-13	EPA-8260	1,2-DCE-d4	99
407102-13	EPA-8260	4-BFB	107
407102-14	EPA-8260	1,2-DCE-d4	103
407102-14	EPA-8260	4-BFB	98
407102-15	EPA-8260	1,2-DCE-d4	104
407102-15	EPA-8260	4-BFB	106
407102-16	EPA-8260	1,2-DCE-d4	101
407102-16	EPA-8260	4-BFB	110
407102-17	EPA-8260	1,2-DCE-d4	104
407102-17	EPA-8260	4-BFB	108
407102-18	EPA-8260	1,2-DCE-d4	102
407102-18	EPA-8260	4-BFB	115

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098

DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

CCIL SAMPLE ID	SURROGATE RECOVERY		
	ANALYTE	SUR ID	% RECV
407098-01	EPA-8260	1,2-DCE-d4	98
407098-01	EPA-8260	4-BFB	103
407098-02	EPA-8260	1,2-DCE-d4	100
407098-02	EPA-8260	4-BFB	130
407098-02 (CIS-1,2-DICHLOROETHENE, TRICHLOROETHENE)	EPA-8260	1,2-DCE-d4	98
407098-02 (CIS-1,2-DICHLOROETHENE, TRICHLOROETHENE)	EPA-8260	4-BFB	104
407098-02 (TETRACHLOROETHENE)	EPA-8260	1,2-DCE-d4	102
407098-02 (TETRACHLOROETHENE)	EPA-8260	4-BFB	113
407098-03	EPA-8260	1,2-DCE-d4	102
407098-03	EPA-8260	4-BFB	114
407098-04	EPA-8260	1,2-DCE-d4	100
407098-04	EPA-8260	4-BFB	128
407098-05	EPA-8260	1,2-DCE-d4	99
407098-05	EPA-8260	4-BFB	106
407098-06	EPA-8260	1,2-DCE-d4	104
407098-06	EPA-8260	4-BFB	100
407098-07	EPA-8260	1,2-DCE-d4	102
407098-07	EPA-8260	4-BFB	107
407098-08	EPA-8260	1,2-DCE-d4	101
407098-08	EPA-8260	4-BFB	99
407098-09	EPA-8260	1,2-DCE-d4	103
407098-09	EPA-8260	4-BFB	104
407098-10	EPA-8260	1,2-DCE-d4	94
407098-10	EPA-8260	4-BFB	112
407098-11	EPA-8260	1,2-DCE-d4	105
407098-11	EPA-8260	4-BFB	100



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 8/6/04
CCIL JOB #: 407098

DATE RECEIVED: 7/23/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101.0

DATA RESULTS

CCIL SAMPLE ID	SURROGATE RECOVERY		% RECV
	ANALYTE	SUR ID	
407098-12	EPA-8260	1,2-DCE-d4	103
407098-12	EPA-8260	4-BFB	102
407098-13	EPA-8260	1,2-DCE-d4	101
407098-13	EPA-8260	4-BFB	96
407098-14	EPA-8260	1,2-DCE-d4	101
407098-14	EPA-8260	4-BFB	125
407098-15	EPA-8260	1,2-DCE-d4	105
407098-15	EPA-8260	4-BFB	103
407098-16	EPA-8260	1,2-DCE-d4	103
407098-16	EPA-8260	4-BFB	105
407098-17	EPA-8260	1,2-DCE-d4	129
407098-17	EPA-8260	4-BFB	119
407098-18	EPA-8260	1,2-DCE-d4	103
407098-18	EPA-8260	4-BFB	111
407098-19	EPA-8260	1,2-DCE-d4	100
407098-19	EPA-8260	4-BFB	100

APPROVED BY:

CRA



CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
295 NE GILMAN BLVD., SUITE 201
ISSAQUAH, WA 98027

DATE: 11/8/04
CCIL JOB #: 410114

DATE RECEIVED: 10/26/04
WDOE ACCREDITATION #: C142

CLIENT CONTACT: DOUG KUNKEL/JERRY SAWETZ

CLIENT PROJECT ID: 46101

DATA RESULTS

CCIL SAMPLE ID	SURROGATE RECOVERY		% RECV
	ANALYTE	SUR ID	
410114-02	EPA-8260	1,2-DCE-d4	99
410114-02	EPA-8260	4-BFB	109
410114-04	EPA-8260	1,2-DCE-d4	102
410114-04	EPA-8260	4-BFB	110
410114-06	EPA-8260	1,2-DCE-d4	100
410114-06	EPA-8260	4-BFB	106
410114-07	EPA-8260	1,2-DCE-d4	111
410114-07	EPA-8260	4-BFB	105
410114-08	EPA-8260	1,2-DCE-d4	97
410114-08	EPA-8260	4-BFB	106
410114-09	EPA-8260	1,2-DCE-d4	93
410114-09	EPA-8260	4-BFB	103
410114-10	EPA-8260	1,2-DCE-d4	99
410114-10	EPA-8260	4-BFB	111
410114-11	EPA-8260	1,2-DCE-d4	94
410114-11	EPA-8260	4-BFB	106
410114-12	EPA-8260	1,2-DCE-d4	91
410114-12	EPA-8260	4-BFB	93
410114-13	EPA-8260	1,2-DCE-d4	101
410114-13	EPA-8260	4-BFB	113
410114-13 (TETRACHLOROETHENE)	EPA-8260	1,2-DCE-d4	99
410114-13 (TETRACHLOROETHENE)	EPA-8260	4-BFB	108

APPROVED BY:

CRA



CC Analytical
8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.cclilabs.com

Chain of Custody / Laboratory Analysis Request

ib# borait Only

Date 7/23/04 Page 1 Of 2

PROJECT ID: 461010	ANALYSIS REQUESTED										OTHER (Specify)														
	REPORT TO COMPANY: Environmental Partners, Inc	PROJECT MANAGER: Doug Kunkel / Jerry Sawetz	ADDRESS: 295 NE Gilman Blvd #201 Issaquah, WA 98027	PHONE: 425-395-0010	FAX: 425-395-0011	P.O. NUMBER:	INVOICE TO COMPANY: SAME	ATTENTION: Tom Elsemore	ADDRESS: SAME	DATE	TIME	TYPE	LAB#	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pt Pol TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	RECEIVED IN GOOD CONDITION?	
1. B-1:8									7/22/04	900	Soil		X												
2. B-1:9										920	GW		X												
3. B-1:26										1030	GW		X												
4. B-1:40										1400	GW		X												
5. B-6:8										1440	Soil		X												
6. B-6:9										1450	GW		X												
7. B-6:22										1520	GW		X												
8. B-6:36										1600	GW		X												
9. MWL-1										1310	GW		X												
10. B-9:8									7/23/04	800	Soil		X												

CLIENT COPY

SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Tom Elsemore EPI 7/23/04 1330

Received By: Michael Saban 1330

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

5 3 2 1 ISSUE DAY

Fuels & Hydrocarbon Analysis

5 3 1 ISSUE DAY

OTHER:

Specify: Metals, Waxe
Field Filtered
Soil HVOCs collected
Using EPA Method 5035A

* Turnaround request less than standard may incur Rush Charges



CC Analytical
 8620 Holly Drive
 Everett, WA 98208
 Phone (425) 356-2600
 (206) 292-9059 Seattle
 (425) 356-2626 Fax
 http://www.cci-labs.com

Chain of Custody/ Laboratory Analysis Request

Lab Job# _____ Laboratory Use Only

Date 7/26/04 Page 1 Of 2

PROJECT ID: 46101-0
 REPORT TO COMPANY: Environmental Partners, Inc.
 PROJECT MANAGER: Doug Kunkel / Jerry Sawetz
 ADDRESS: 205 NE Gilman Blvd #201
Issaquah WA 98027
 PHONE: 425-395-0010 FAX: 425-395-0011
 P.O. NUMBER: _____ E-MAIL: _____
 INVOICE TO COMPANY: SAME
 ATTENTION: Tom Elsemore
 ADDRESS: SAME

ANALYSIS REQUESTED

NWTPH-HCID
 NWTPH-DX
 NWTPH-GX
 BTEX by EPA-8021 EPA-8260
 MTBE by EPA-8021 EPA-8260
 Halogenated Volatiles by EPA 8260
 Volatile Organic Compounds by EPA 8260
 Ethylene dibromide (EDB) by EPA-8260 EPA-504.1
 1,2 Dichloroethene (EDC) by EPA-8260
 Semivolatile Organic Compounds by EPA 8270
 Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM
 PCB Pesticides by EPA 8081/8082
 Metals-MTCA-5 RCRA-8 Pn Pol TAL
 Metals Other (Specify) _____
 TCLP-Metals VOA Semi-Vol Pest Herbs

OTHER (Specify) _____
 RECEIVED IN GOOD CONDITION?

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. B-7:22	7/23/04	1340	GW	1
2. B-7:36	↓	1415	GW	2
3. B-4:18	↓	1440	Soil	3
4. B-4:19	↓	1505	GW	4
5. B-4:22	↓	1540	GW	5
6. B-4:36	↓	1610	GW	6
7. B-5:18	7/26/04	730	Soil	7
8. B-5:19	↓	750	GW	8
9. B-5:22	↓	815	GW	9
10. B-5:36	↓	855	GW	10

NUMBER OF CONTAINERS	OTHER (Specify)
2	
2	
2	
2	
2	
2	
2	
2	
2	
2	

REPORT COPY

SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Tom Kunkel EPI 7/26/04 300
 Received By: Tom Kunkel CCIAL 7/26/04 300
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED IN BUSINESS DAYS*
 Organic, Metals & Inorganic Analysis

Standard

1 2 3 4 5 SAME DAY

Fuels & Hydrocarbon Analysis

1 2 3 4 5 SAME DAY

OTHER:

Specify: Soil HVOCs collected
using EPA Method 5035A
Sample B-4:18 Frozen
since 7/23/04

* Turnaround request less than standard may incur Rush Charges



CCI Analytical Laboratories
 8620 Holly Drive
 Everett, WA 98208
 Phone (425) 356-2600
 (206) 292-9059 Seattle
 (425) 356-2626 Fax
 http://www.cci-labs.com

Chain of Custody/ Laboratory Analysis Request

Job # _____

Date 7/26/04 Page 2 Of 2

PROJECT INFORMATION				ANALYSIS REQUESTED												OTHER (Specify)																
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	NWTPH-HCID	NWTPH-DX	NWTPH-GX	MTBE by EPA-8021	MTBE by EPA-8021	EPA-8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260	EPA-504.1	1,2 Dichloroethene (EDC) by EPA-8260	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB	Pesticides	by EPA 8081/8082	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	RECEIVED IN GOOD CONDITION?		
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																												
1. B-3:8	7/26/04	930	Soil	11			X																									
2. B-3:9		945	GW	12			X																									
3. B-3:22		1020	GW	13			X																									
4. B-3:36		1045	GW	14			X																									
5. B-2:8		1125	Soil	15			X																									
6. B-2:9		1140	GW	16			X																									
7. B-2:22		1215	GW	17			X																									
8. B-2:36		1300	GW	18			X																									
9.																																
10.																																

SAMPLES PACKED

SPECIAL INSTRUCTIONS
 CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.
SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: [Signature] EPI 7/26/04 3:00
 Received By: [Signature] CCILC 7/26/04 3:00
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis: 10 Standard, 1 SAME DAY
 Fuels & Hydrocarbon Analysis: 5 Standard, 3 Standard, 1 SAME DAY
 OTHER: _____
 Specify: _____

* Turnaround request less than standard may incur Rush Charges



CC Analytical Laboratories
 8620 Holly Drive
 Everett, WA 98208
 Phone (425) 356-2600
 (206) 292-9059 Seattle
 (425) 356-2626 Fax
 http://www.ccilabs.com

Chain of Custody / Laboratory Analysis Request

Job# _____ Laboratory Use Only

Date 10/26/04 Page _____ Of _____

PROJECT INFORMATION				ANALYSIS REQUESTED												OTHER (Specify)										
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	PHONE:	P.O. NUMBER:	INVOICE TO COMPANY:	ATTENTION:	ADDRESS:	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	Ethylene dibromide (EDB) by EPA-8260	1,2-Dichloroethene (EDC) by EPA-8260	Semi-volatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pt Pol TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
46101	Environment Partners, Inc	Dave Kuakel / Jerry Sawetz	205 NE Gilman Blvd #201 Issaquah, WA 98027	425-395-1010		SAME	Tom Flsemore																			
1.	B-10-19 (archive)	10/25/04	1845	Soil	1																					
2.	B-10		1915	GW	2																					
3.	B-11-19 (archive)		2000	Soil	3																					
4.	B-11		2015	GW	4																					
5.	B-12-18 (archive)		2105	Soil	5																					
6.	B-12		2130	GW	6																					
7.	B-13-10		2250	Soil	7																					
8.	B-13		2315	GW	8																					
9.	B-14-10		2350	Soil	9																					
10.	B-14		10/26/04	0010	GW	10																				

REPORT COPY

SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Tom Flsemore EPI 10/26/04
 Received By: _____
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis

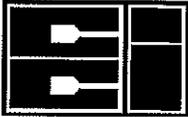
Specify: Soil
Collected
EPA Method 8260

OTHER:

10 5 3 1 SAVE DAY
 5 3 1 SAVE DAY

Fuels & Hydrocarbon Analysis

* Turnaround request less than standard may incur Rush Charges



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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:10 BH-5-6
CCIL SAMPLE #: -02

DATA RESULTS

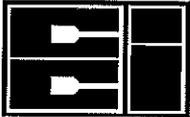
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	140	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	0.05	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	0.11	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	0.40	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	1.5	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<25)	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<50)	MG/KG	7/10/2007	EBS

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY EXTREMELY WEATHERED GASOLINE.

* *ND* INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



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A Division of DataChem Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:45 BH-3-6
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1200	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	0.39	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	1.2	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	1.3	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	2.7	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	9300	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<1000)	MG/KG	7/10/2007	EBS

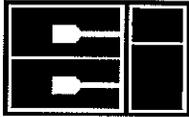
NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS WHICH ARE LIKELY EXTREMELY WEATHERED GAOLINE AND WEATHERED DIESEL FUEL.

VOLATILE RANGE RESULT IS BIASED HIGH DUE TO SEMIVOLATILE RANGE PRODUCT OVERLAP.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:50 BH-3-10
CCIL SAMPLE #: -07

DATA RESULTS

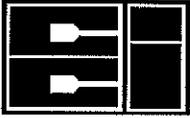
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<3)	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	ND(<0.03)	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	ND(<0.2)	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<25)	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	120	MG/KG	7/10/2007	EBS

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY LUBE OIL.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 10:45 BH-4-6
CCIL SAMPLE #: -11

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	650	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	ND(<0.3)	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	ND(<0.5)	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	1.0	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	ND(<2)	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	670	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<50)	MG/KG	7/10/2007	EBS

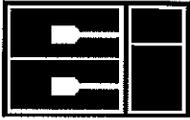
NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS EXTREMELY WEATHERED GASOLINE AND DIESEL FUEL #1 OR SIMILAR PRODUCTS.

DIESEL RESULT BIASED HIGH DUE TO VOLATILE RANGE PRODUCT OVERLAP.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 11:30 BH-2-6
CCIL SAMPLE #: -15

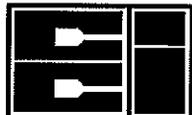
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<3)	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	ND(<0.03)	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	ND(<0.2)	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<25)	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<50)	MG/KG	7/10/2007	EBS

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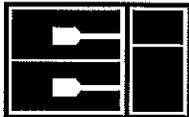
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:00 BH-2-W
CCIL SAMPLE #: -18

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	7/16/2007	DLC
TPH-Diesel Range	NWTPH-DX W/CLEANUP	ND(<130)	UG/L	7/16/2007	EBS
TPH-Oil Range	NWTPH-DX W/CLEANUP	ND(<250)	UG/L	7/16/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/17/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/17/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/17/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP



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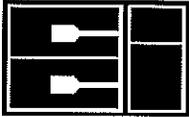
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:00 BH-2-W
CCIL SAMPLE #: -18

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/17/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP



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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:00 BH-2-W
CCIL SAMPLE #: -18

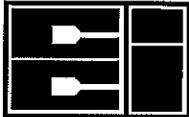
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
---------	--------	----------	---------	---------------	-------------

*"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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APPROVED BY:



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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:50 BH-13-6
CCIL SAMPLE #: -20

DATA RESULTS

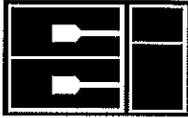
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX W/CLEANUP	ND(<25)	MG/KG	7/16/2007	EBS
TPH-Oil Range	NWTPH-DX W/CLEANUP	65	MG/KG	7/16/2007	EBS
Arsenic	EPA-6010	5.4	MG/KG	7/16/2007	CEO
Barium	EPA-6010	98	MG/KG	7/16/2007	CEO
Cadmium	EPA-6010	ND(<1.0)	MG/KG	7/16/2007	CEO
Chromium	EPA-6010	22	MG/KG	7/16/2007	CEO
Lead	EPA-6010	110	MG/KG	7/16/2007	CEO
Mercury	EPA-7471	0.06	MG/KG	7/17/2007	CEO
Selenium	EPA-6010	ND(<5.0)	MG/KG	7/16/2007	CEO
Silver	EPA-6010	ND(<5.0)	MG/KG	7/16/2007	CEO

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY LUBE OIL.

* ND* INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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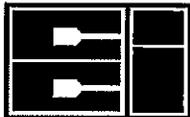
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 TB-070907
CCIL SAMPLE #: -33

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/11/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/11/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/11/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP



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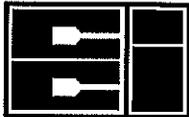
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CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 TB-070907
CCIL SAMPLE #: -33

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/11/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP



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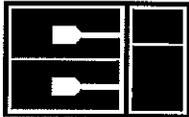
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* *ND* INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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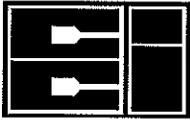
CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0707022-02	NWTPH-GX	TFT	83
0707022-02	EPA-8021	TFT	87
0707022-02	NWTPH-DX	C25	103
0707022-06	NWTPH-GX	TFT	*
0707022-06	EPA-8021	TFT	73
0707022-06	NWTPH-DX	C25	*
0707022-07	NWTPH-GX	TFT	70
0707022-07	EPA-8021	TFT	70
0707022-07	NWTPH-DX	C25	105
0707022-11	NWTPH-GX	TFT	*
0707022-11	EPA-8021	TFT	*
0707022-11	NWTPH-DX	C25	105
0707022-15	NWTPH-GX	TFT	82
0707022-15	EPA-8021	TFT	87
0707022-15	NWTPH-DX	C25	94
0707022-18	NWTPH-GX	TFT	106
0707022-18	NWTPH-DX W/CLEANUP	C25	109
0707022-18	EPA-8260	1,2-Dichloroethane-d4	106
0707022-18	EPA-8260	Toluene-d8	97
0707022-18	EPA-8260	4-Bromofluorobenzene	100
0707022-20	NWTPH-DX W/CLEANUP	C25	111
0707022-33	EPA-8260	1,2-Dichloroethane-d4	109
0707022-33	EPA-8260	Toluene-d8	94
0707022-33	EPA-8260	4-Bromofluorobenzene	102

* SURROGATE DILUTED OUT OF CALIBRATION RANGE



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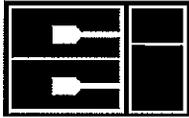
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Soil	GS070507	0707022 -2,6,7,11,15	TPH-Volatile Range	ND(<3)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Benzene	ND(<0.03)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Toluene	ND(<0.05)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Ethylbenzene	ND(<0.05)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Xylenes	ND(<0.2)	MG/KG
NWTPH-DX	Soil	DS070907	0707022 -2,6,7,11,15	TPH-Diesel Range	ND(<25)	MG/KG
NWTPH-DX	Soil	DS070907	0707022 -2,6,7,11,15	TPH-Oil Range	ND(<50)	MG/KG
NWTPH-DX	Soil	DS071607	0707022 -20	TPH-Diesel Range	ND(<25)	MG/KG
NWTPH-DX	Soil	DS071607	0707022 -20	TPH-Oil Range	ND(<50)	MG/KG
EPA-7471	Soil	HGS071707-1	0707022 -20	Mercury	ND(<0.02)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Arsenic	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Barium	ND(<3.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Cadmium	ND(<1.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Chromium	ND(<1.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Lead	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Selenium	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Silver	ND(<5.0)	MG/KG
NWTPH-GX	Water	GW070907	0707022 -18	TPH-Volatile Range	ND(<50)	UG/L
NWTPH-DX	Water	DW071307	0707022 -18	TPH-Diesel Range	ND(<130)	UG/L
NWTPH-DX	Water	DW071307	0707022 -18	TPH-Oil Range	ND(<250)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Dichlorodifluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chloromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Vinyl Chloride	ND(<0.2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromomethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trichlorofluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Acetone	ND(<25)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Methylene Chloride	ND(<5)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Acrylonitrile	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Methyl T-Butyl Ether	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trans-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2-Butanone	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Cis-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2,2-Dichloropropane	ND(<2)	UG/L



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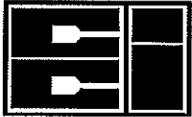
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW070907	0707022 -33	Bromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chloroform	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,1-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Carbon Tetrachloride	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Dibromomethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromodichloromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trans-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	4-Methyl-2-Pentanone	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Toluene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Cis-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,2-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2-Hexanone	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,3-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Tetrachloroethylene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Dibromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dibromoethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,1,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Ethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	M+P Xylene	ND(<4)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Styrene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	O-Xylene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromoform	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Isopropylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,2,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,3-Trichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	N-Propyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,3,5-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	4-Chlorotoluene	ND(<2)	UG/L



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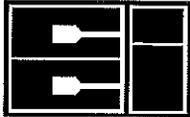
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW070907	0707022 -33	T-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,4-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	S-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	P-Isopropyltoluene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,3 Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,4-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	N-Butylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dibromo 3-Chloropropane	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,4-Trichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Hexachlorobutadiene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Naphthalene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,3-Trichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Dichlorodifluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Vinyl Chloride	ND(<0.2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromomethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Trichlorofluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Acetone	ND(<25)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Methylene Chloride	ND(<5)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Acrylonitrile	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Methyl T-Butyl Ether	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Trans-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2-Butanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Cis-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chloroform	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,1-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Carbon Tetrachloride	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Benzene	ND(<2)	UG/L



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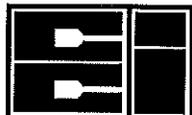
DATE: 7/18/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW071707	0707022 -18	Trichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Dibromomethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromodichloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Trans-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	4-Methyl-2-Pentanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Toluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Cis-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,2-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2-Hexanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,3-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Tetrachloroethylene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Dibromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dibromoethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,1,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Ethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	M+P Xylene	ND(<4)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Styrene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	O-Xylene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromoform	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Isopropylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,2,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,3-Trichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	N-Propyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,3,5-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	4-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	T-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,4-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	S-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	P-Isopropyltoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,3 Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,4-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	N-Butylbenzene	ND(<2)	UG/L



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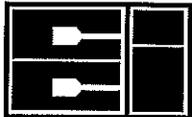
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CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW071707	0707022 -18	1,2-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dibromo 3-Chloropropane	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,4-Trichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Hexachlorobutadiene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Naphthalene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,3-Trichlorobenzene	ND(<2)	UG/L



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CLIENT PROJECT ID: BETA BOTHELL LANDING

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Soil	GS070507	0707022 -2,6,7,11,15	TPH-Volatile Range	92 %	100 %	8
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Benzene	92 %	88 %	4
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Toluene	93 %	89 %	4
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Ethylbenzene	93 %	88 %	6
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Xylenes	93 %	86 %	8
NWTPH-DX	Soil	DS070907	0707022 -2,6,7,11,15	TPH-Diesel Range	83 %	82 %	1
NWTPH-DX	Soil	DS071607	0707022 -20	TPH-Diesel Range	88 %	90 %	2
EPA-7471	Soil	HGS071707-1	0707022 -20	Mercury	97 %	96 %	1
EPA-6010	Soil	ICPS071607-2	0707022 -20	Arsenic	106 %	104 %	2
EPA-6010	Soil	ICPS071607-2	0707022 -20	Barium	103 %	102 %	1
EPA-6010	Soil	ICPS071607-2	0707022 -20	Cadmium	103 %	102 %	1
EPA-6010	Soil	ICPS071607-2	0707022 -20	Chromium	103 %	103 %	0
EPA-6010	Soil	ICPS071607-2	0707022 -20	Lead	106 %	103 %	3
EPA-6010	Soil	ICPS071607-2	0707022 -20	Selenium	103 %	100 %	3
EPA-6010	Soil	ICPS071607-2	0707022 -20	Silver	99 %	98 %	1
NWTPH-GX	Water	GW070907	0707022 -18	TPH-Volatile Range	107 %	99 %	8
NWTPH-DX	Water	DW071307	0707022 -18	TPH-Diesel Range	84 %	87 %	4
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloroethene	101 %	118 %	15
EPA-8260	Water	VW070907	0707022 -33	Benzene	113 %	120 %	6
EPA-8260	Water	VW070907	0707022 -33	Trichloroethene	109 %	119 %	9
EPA-8260	Water	VW070907	0707022 -33	Toluene	108 %	115 %	6
EPA-8260	Water	VW070907	0707022 -33	Chlorobenzene	109 %	114 %	4
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloroethene	93 %	100 %	7
EPA-8260	Water	VW071707	0707022 -18	Benzene	100 %	99 %	1
EPA-8260	Water	VW071707	0707022 -18	Trichloroethene	107 %	99 %	7
EPA-8260	Water	VW071707	0707022 -18	Toluene	102 %	99 %	3
EPA-8260	Water	VW071707	0707022 -18	Chlorobenzene	102 %	101 %	1

APPROVED BY:



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19730 64th Ave. W., Suite 200, Lynnwood, WA 98036 (425)774-0100
4500 Kruse Way, Suite 300, Lake Oswego, OR 97035 (503)875-2424

Chain of Custody and Laboratory Analysis Request

707022

DATE: 7/9/02

PAGE: 1 of

PROJECT NAME: Beta Bottomland Landfill #: 2007-093
SITE CODE: _____
SAMPLERS NAME: Archie PHONE: _____
SAMPLERS SIGNATURE: [Signature]
HWA CONTACT: " " PHONE: _____
CC Annie

ANALYSIS REQUESTED										
<input checked="" type="checkbox"/>										

2 DAY TPO

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE	ALPHA-Pu	NUCLEAR Pu	BETA-METALS	UO ₂ -820	RES-808r	PAH-8200 SIM	ED/EDC/METALS	REMARKS
BH-5-2	7/9/02	905		1	2								
BH-5-6		910		2	5	X	X						SO35A
BH-5-10		915		3	2								
BH-5-14		920		4	2								
BH-3-2		940		5	2								
-6		945		6	5	X	X						SO35A
		950		7	2	X	X						
-14		1035		8	2								
		1015		9	2								
BH-4-2		1040		10	2								
-6		1045		11	5	X	X						SO35A
		1050											
-10		1050		12	2								
		1100		13	2								
BH-2-2		1125		14	2								
-2-6		1130		15	5	X	X						SO35A
		1135		16	2								
-14		1145		17	2								
		1200		18	9	X	X	X					not
BH-13-2		1245		19	2								

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
Relinquished by: <u>Vance Archie</u>	<u>[Signature]</u>	HWA	7/9/02	1730	
Received by: <u>Paul Bay</u>	<u>[Signature]</u>	CCIAL	7/9/02	1730	
Relinquished by:					
Received by:					

DISTRIBUTION: WHITE - Return to HWA; YELLOW - Retain by Lab; PINK - Retain by Sampler



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Chain of Custody and Laboratory Analysis Request

707022

DATE: 7/9/02
PAGE: 2 of 2

PROJECT NAME: BETA BOTHELL LANDING #: 2007-092
SITE CODE: _____
SAMPLERS NAME: ATKINS PHONE: _____
SAMPLERS SIGNATURE: [Signature]
HWA CONTACT: CC Annie PHONE: _____

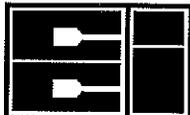
ANALYSIS REQUESTED

<u>MLTPH-DX</u>	<u>MLTPH-GX/BETA</u>	<u>RECA/MSTW</u>	<u>VOC's - 8200</u>	<u>PCO's - 8082</u>	<u>PAH - 8230 SIM</u>															
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			

2 Day

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE	REMARKS
BH-13-6	7/9/02	1200		20	5	5075A
BH-13-10		1255		21	2	
BH-13-14		1300		22	2	
BH-13-W		1320	H2O	23	9	
BH-11-2		1405		24	5	5075A
BH-11-W		1410		25	2	
BH-11-10		1415		26	2	
BH-11-14		1420		27	2	
BH-11-W		1440	H2O	28	9	
BH-10-2		1540		29	2	
BH-10-6		1545		30	5	5075A
BH-10-10		1550		31	2	
BH-10-14		1555		32	2	
TB-070907			H2O	33	1	

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
Relinquished by: <u>Vanessa Atkins</u>	<u>[Signature]</u>	<u>HWA</u>	<u>7/9/02</u>	<u>1730</u>	
Received by: <u>Rick Bagan</u>	<u>[Signature]</u>	<u>CEAL</u>	<u>7/9/02</u>	<u>1730</u>	
Relinquished by:					
Received by:					



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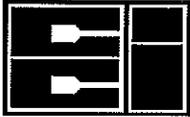
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LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 9:50 MW-1
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	7/19/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	7/19/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	7/19/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/18/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/18/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/18/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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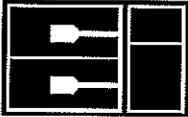
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CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 9:50 MW-1
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/18/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 9:50 MW-1
CCIL SAMPLE #: -01

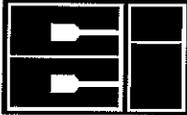
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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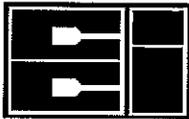
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 11:45 MW-2
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	7/19/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	7/19/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	7/19/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/18/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/18/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/18/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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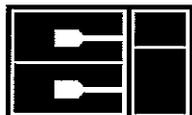
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 11:45 MW-2
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Tetrachloroethylene	EPA-8260	17	UG/L	7/18/2007	GAP
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/18/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 11:45 MW-2
CCIL SAMPLE #: -02

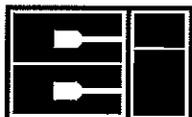
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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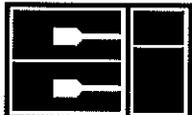
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 11:10 MW-3
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	7/19/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	7/19/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	7/19/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/18/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/18/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/18/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	2	UG/L	7/18/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Benzene	EPA-8260	17	UG/L	7/18/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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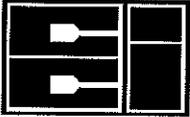
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 11:10 MW-3
CCIL SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/18/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Propyl Benzene	EPA-8260	5	UG/L	7/18/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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CLIENT: HWA GEOSCIENCES
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LYNNWOOD, WA 98036

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WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 11:10 MW-3
CCIL SAMPLE #: -03

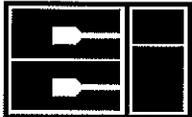
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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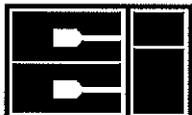
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
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CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 10:30 MW-4
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	7/19/2007	DLC
TPH-Diesel Range	NWTPH-DX W/ CLEANUP	ND(<130)	UG/L	7/19/2007	EBS
TPH-Oil Range	NWTPH-DX W/ CLEANUP	ND(<250)	UG/L	7/19/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/18/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/18/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/18/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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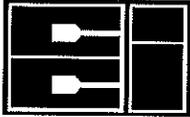
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 10:30 MW-4
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/18/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
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CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 10:30 MW-4
CCIL SAMPLE #: -04

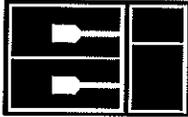
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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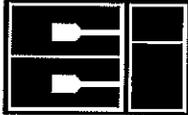
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
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DATE: 7/20/2007
CCIL JOB #: 0707068
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 8:30 TB-1
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/18/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/18/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/18/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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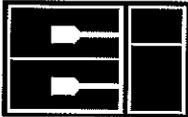
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098
CLIENT SAMPLE ID: 7/18/2007 8:30 TB-1
CCIL SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/18/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/18/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/18/2007	GAP



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CLIENT SAMPLE ID: 7/18/2007 8:30 TB-1
CCIL SAMPLE #: -05

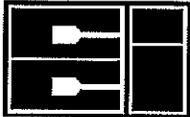
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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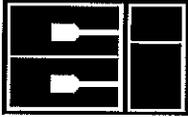
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CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0707068-01	NWTPH-GX	TFT	88
0707068-01	NWTPH-DX	C25	114
0707068-01	EPA-8260	1,2-Dichloroethane-d4	119
0707068-01	EPA-8260	Toluene-d8	94
0707068-01	EPA-8260	4-Bromofluorobenzene	96
0707068-02	NWTPH-GX	TFT	88
0707068-02	NWTPH-DX	C25	111
0707068-02	EPA-8260	1,2-Dichloroethane-d4	119
0707068-02	EPA-8260	Toluene-d8	99
0707068-02	EPA-8260	4-Bromofluorobenzene	100
0707068-03	NWTPH-GX	TFT	90
0707068-03	NWTPH-DX	C25	108
0707068-03	EPA-8260	1,2-Dichloroethane-d4	102
0707068-03	EPA-8260	Toluene-d8	95
0707068-03	EPA-8260	4-Bromofluorobenzene	105
0707068-04	NWTPH-GX	TFT	88
0707068-04	NWTPH-DX W/ CLEANUP	C25	113
0707068-04	EPA-8260	1,2-Dichloroethane-d4	110
0707068-04	EPA-8260	Toluene-d8	95
0707068-04	EPA-8260	4-Bromofluorobenzene	94
0707068-05	EPA-8260	1,2-Dichloroethane-d4	120
0707068-05	EPA-8260	Toluene-d8	98
0707068-05	EPA-8260	4-Bromofluorobenzene	95



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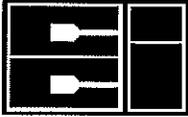
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CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Water	GW071807	0707068 -01 to 04	TPH-Volatile Range	ND(<50)	UG/L
NWTPH-DX	Water	DW071307	0707068 -01 to 04	TPH-Diesel Range	ND(<130)	UG/L
NWTPH-DX	Water	DW071307	0707068 -01 to 04	TPH-Oil Range	ND(<250)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Dichlorodifluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Chloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Vinyl Chloride	ND(<0.2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Bromomethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Chloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Trichlorofluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Acetone	ND(<25)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Methylene Chloride	ND(<5)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Acrylonitrile	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Methyl T-Butyl Ether	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Trans-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	2-Butanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Cis-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	2,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Bromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Chloroform	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1,1-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Carbon Tetrachloride	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Trichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Dibromomethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Bromodichloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Trans-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	4-Methyl-2-Pentanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Toluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Cis-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1,2-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	2-Hexanone	ND(<10)	UG/L



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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

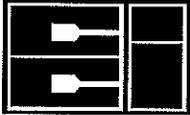
DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW071707	0707068 -01 to 05	1,3-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Tetrachloroethylene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Dibromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2-Dibromoethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Chlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1,1,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Ethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	M+P Xylene	ND(<4)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Styrene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	O-Xylene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Bromoform	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Isopropylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1,2,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2,3-Trichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Bromobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	N-Propyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	2-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,3,5-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	4-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	T-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2,4-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	S-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	P-Isopropyltoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,3 Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,4-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	N-Butylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2-Dibromo 3-Chloropropane	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2,4-Trichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Hexachlorobutadiene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	Naphthalene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707068 -01 to 05	1,2,3-Trichlorobenzene	ND(<2)	UG/L



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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/20/2007
CCIL JOB #: 0707068
DATE RECEIVED: 7/18/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BOTHELL CROSSROADS 2007-098

QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

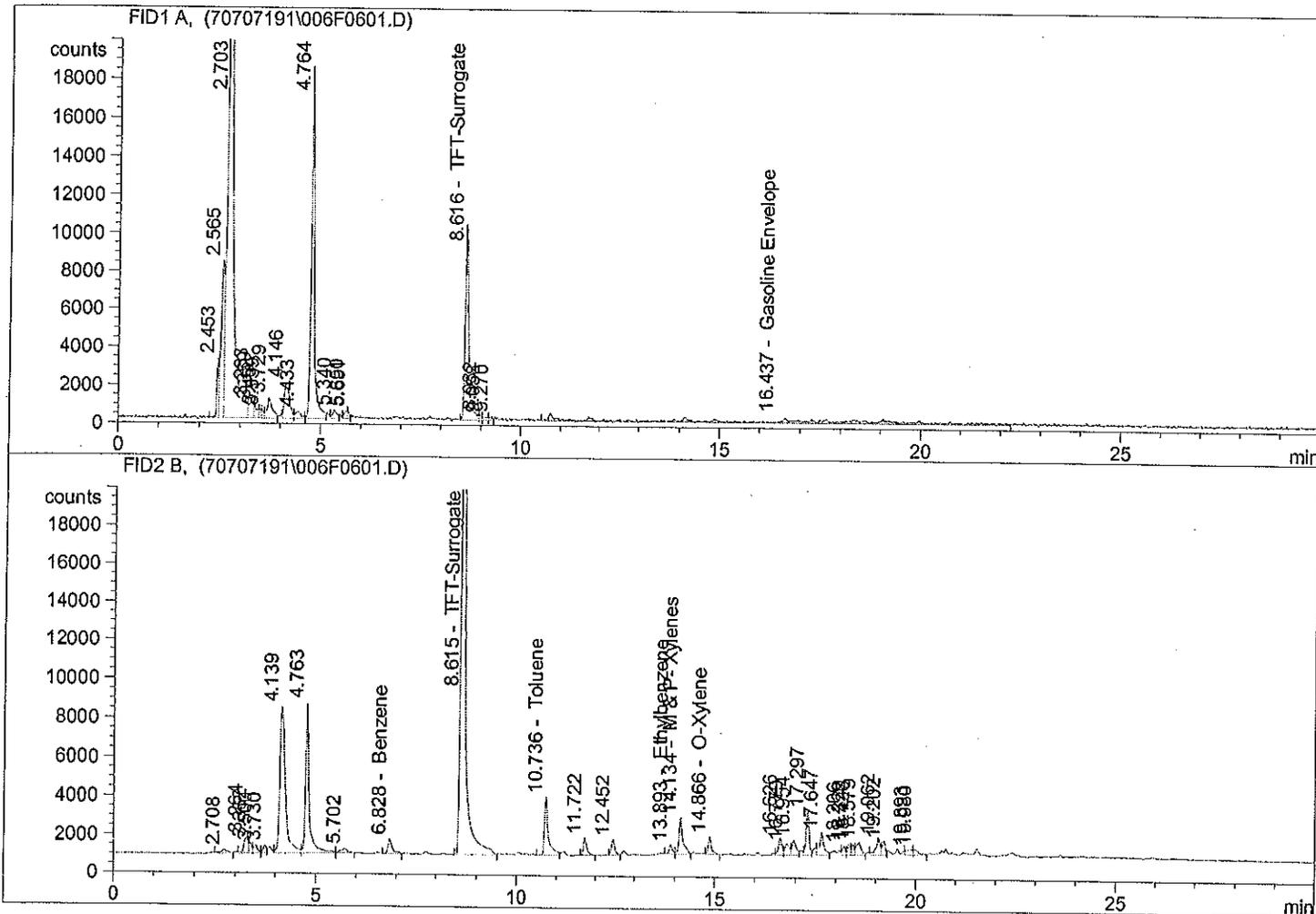
METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Water	GW071807	0707068 -01 to 04	TPH-Volatile Range	110 %	107 %	3
NWTPH-DX	Water	DW071307	0707068 -01 to 04	TPH-Diesel Range	84 %	87 %	4
EPA-8260	Water	VW071707	0707068 -01 to 05	1,1-Dichloroethene	93 %	100 %	7
EPA-8260	Water	VW071707	0707068 -01 to 05	Benzene	100 %	99 %	1
EPA-8260	Water	VW071707	0707068 -01 to 05	Trichloroethene	107 %	99 %	7
EPA-8260	Water	VW071707	0707068 -01 to 05	Toluene	102 %	99 %	3
EPA-8260	Water	VW071707	0707068 -01 to 05	Chlorobenzene	102 %	101 %	1

APPROVED BY:

Gas/BTEX Instrument 70
 Data File: C:\HPCHEM\1\DATA\70707191\006F0601.D
 Injection Date & Time: 7/19/2007 10:10:46 AM
 Report Created on: 7/19/2007 10:55:09 AM
 Operator: DLC
 Acquisition Method: 70GB0507.M
 Analysis Method: C:\HPCHEM\1\METHODS\70GB0507.M

FID1 A equivalent to FID analysis.
 FID2 B equivalent to PID analysis.

Sample Name: 707068-1 5ML



Ret. Time	Compound Name	Area	Amount ug/L
8.616	TFT-Surrogate	63670.605	8.841
16.437	Gasoline Envelope	64506.621	10.315

88%

Gas < 50 ug/L

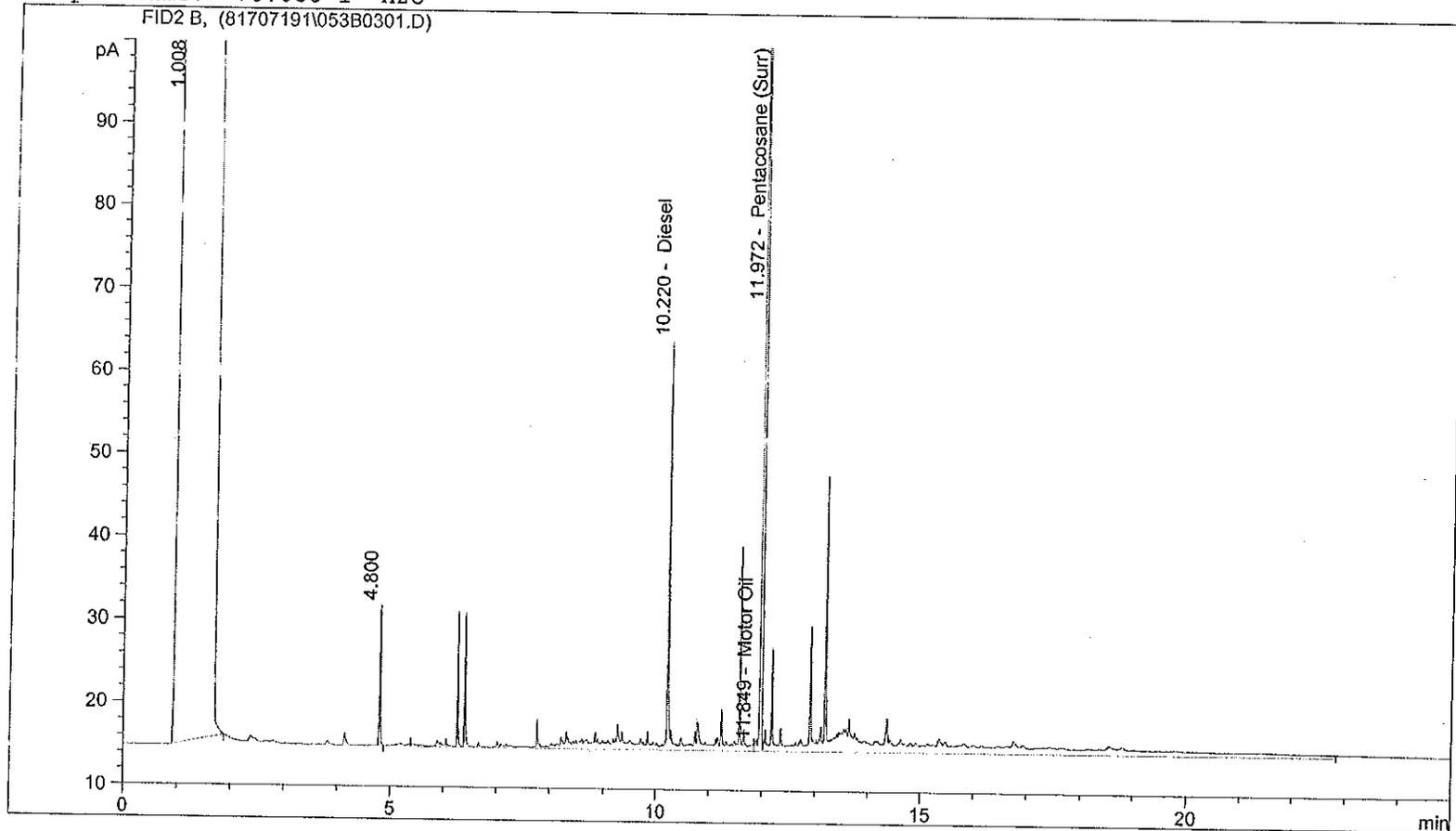
Ret. Time	Compound Name	Area	Amount ug/L
0.000	MTBE	0.000	0.000
6.828	Benzene	5871.462	0.000
8.615	TFT-Surrogate	301003.562	9.132
10.736	Toluene	20803.949	0.329
13.893	Ethylbenzene	2602.984	0.490
14.134	M & P- Xylenes	12889.281	0.624
14.866	O-Xylene	5450.629	0.265

REVIEWED BY CW
 & DATE 7/20/07

7-20-07 DC

Instrument #81 Data File: C:\HPCHEM\1\DATA\81707191\053B0301.D
 Operator: EBS
 Method: C:\HPCHEM\1\METHODS\BDMO0607.M
 Injection Date & Time: 7/19/2007 10:57:34 AM 7/19/2007 10:57:34 AM
 Report Creation: 7/19/2007 11:24:52 AM

Sample Name: 707068-1 H2O



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
10.220	FID2 B,	Diesel	369.266	25.076
11.849		Motor Oil	629.156	30.015
11.972		Pentacosane (Surr)	703.243	45.485

114%

D < 0.13 mg/L

MO < 0.25 mg/L

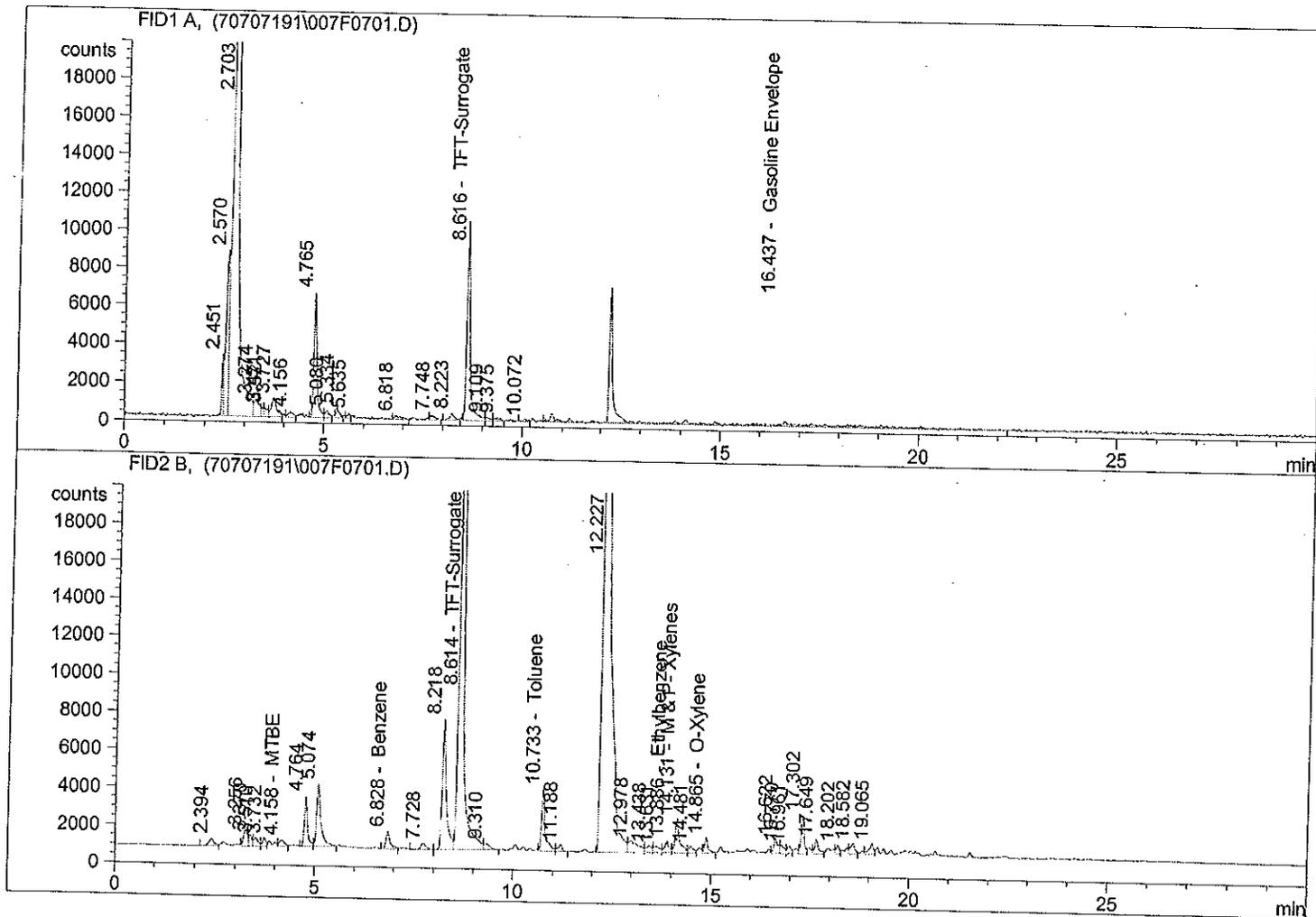
REVIEWED BY *CW*
 & DATE *7/19/07*

07.19.07 ES

Gas/BTEX Instrument 70
 Data File: C:\HPCHEM\1\DATA\70707191\007F0701.D
 Injection Date & Time: 7/19/2007 10:46:38 AM
 Report Created on: 7/20/2007 6:24:54 AM
 Operator: DLC
 Acquisition Method: 70GB0507.M
 Analysis Method: C:\HPCHEM\1\METHODS\70GB0507.M

FID1 A equivalent to FID analysis.
 FID2 B equivalent to PID analysis.

Sample Name: 707068-2 5ML



Ret. Time	Compound Name	Area	Amount ug/L
8.616	TFT-Surrogate	63633.324	8.836
16.437	Gasoline Envelope	85214.852	15.070

88%

Gas < 50 ug/L

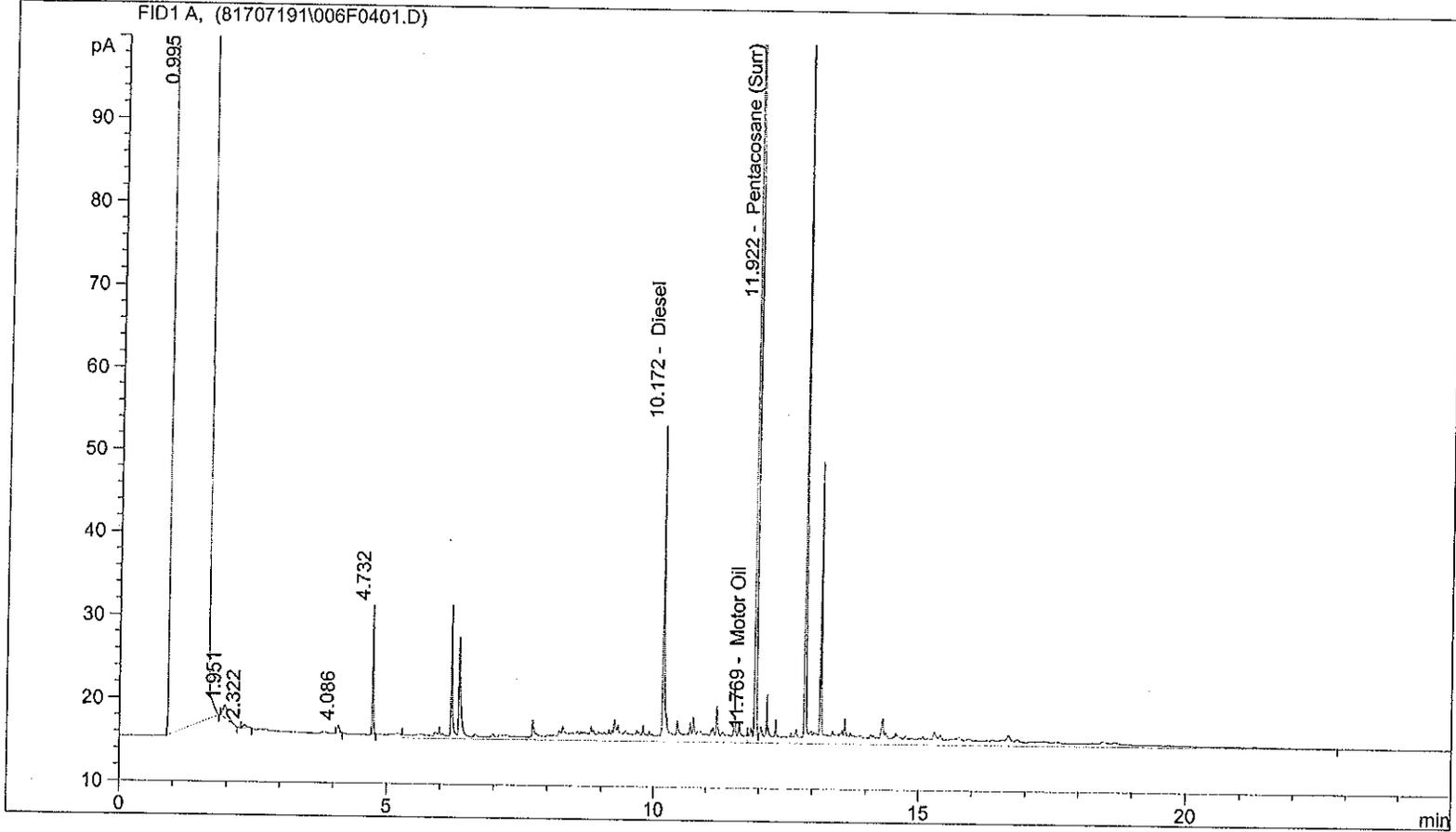
ANALYZED BY CW
 DATE 7/20/07

Ret. Time	Compound Name	Area	Amount ug/L
4.158	MTBE	3034.270	0.046
6.828	Benzene	7045.738	0.000
8.614	TFT-Surrogate	306390.187	9.296
10.733	Toluene	20630.951	0.327
13.886	Ethylbenzene	5064.440	0.522
14.131	M & P- Xylenes	13706.690	0.633
14.865	O-Xylene	5075.295	0.260

7-20-07 DC

Instrument #81 Data File: C:\HPCHEM\1\DATA\81707191\006F0401.D
 Operator: EBS
 Method: C:\HPCHEM\1\METHODS\FDMO0607.M
 Injection Date & Time: 7/19/2007 11:28:03 AM 7/19/2007 11:28:03 AM
 Report Creation: 7/19/2007 11:57:11 AM

Sample Name: 707068-2 H2O



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
10.172	FID1 A,	Diesel	422.475	31.764
11.769		Motor Oil	571.172	23.529
11.922		Pentacosane (Surr)	718.476	44.447 III Y.

D < 0.13 mg/L
MO < 0.25 mg/L

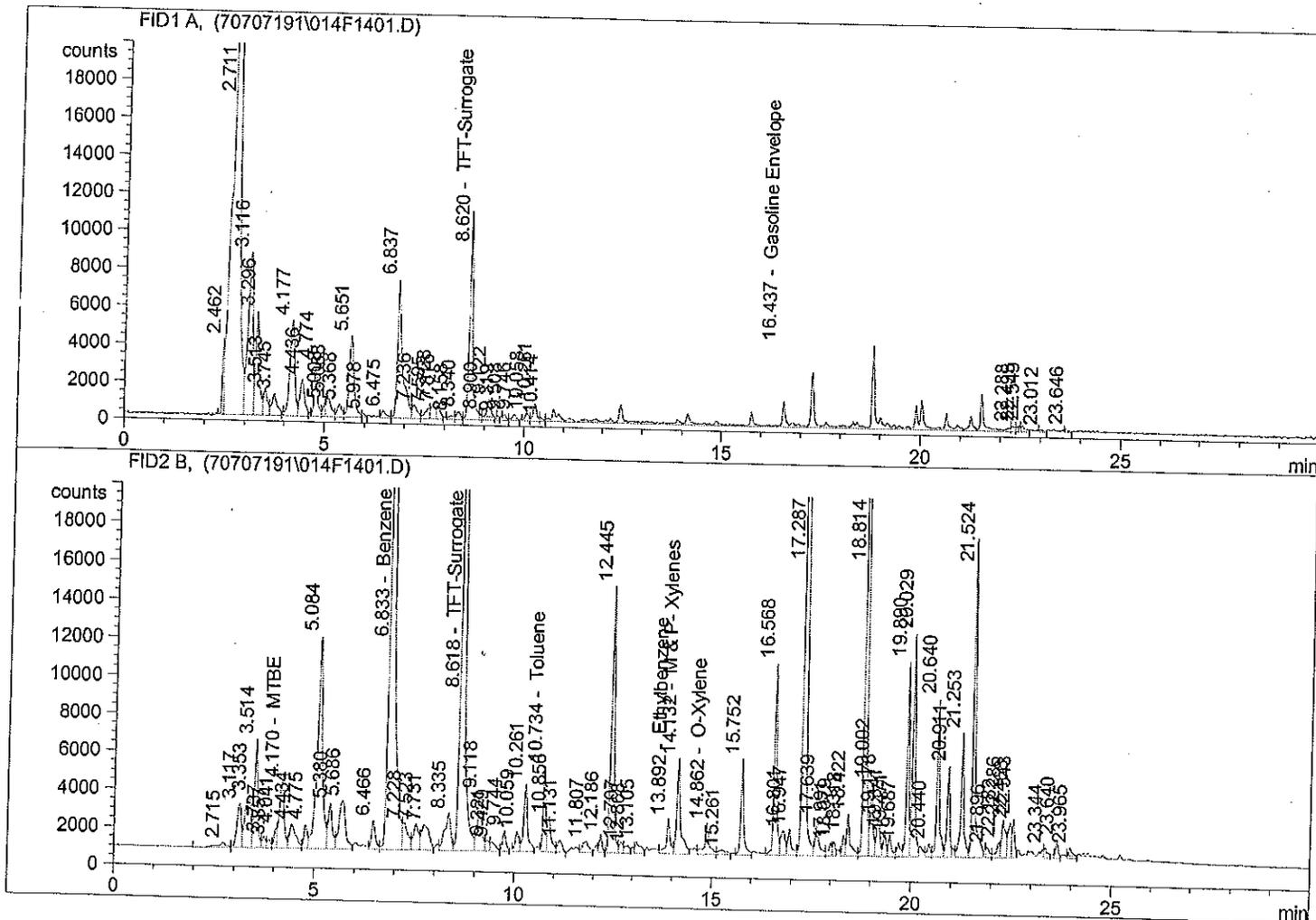
REVIEWED BY *CCW*
 & DATE *7/19/07*

07.19.07 *EA*

Gas/BTEX Instrument 70
 Data File: C:\HPCHEM\1\DATA\70707191\014F1401.D
 Injection Date & Time: 7/19/2007 2:58:07 PM
 Report Created on: 7/20/2007 6:26:01 AM
 Operator: DLC
 Acquisition Method: 70GB0507.M
 Analysis Method: C:\HPCHEM\1\METHODS\70GB0507.M

FID1 A equivalent to FID analysis.
 FID2 B equivalent to PID analysis.

Sample Name: 707068-3 5ML RR



Ret. Time	Compound Name	Area	Amount ug/L
8.620	TFT-Surrogate	64920.059	9.006
16.437	Gasoline Envelope	156736.562	31.492

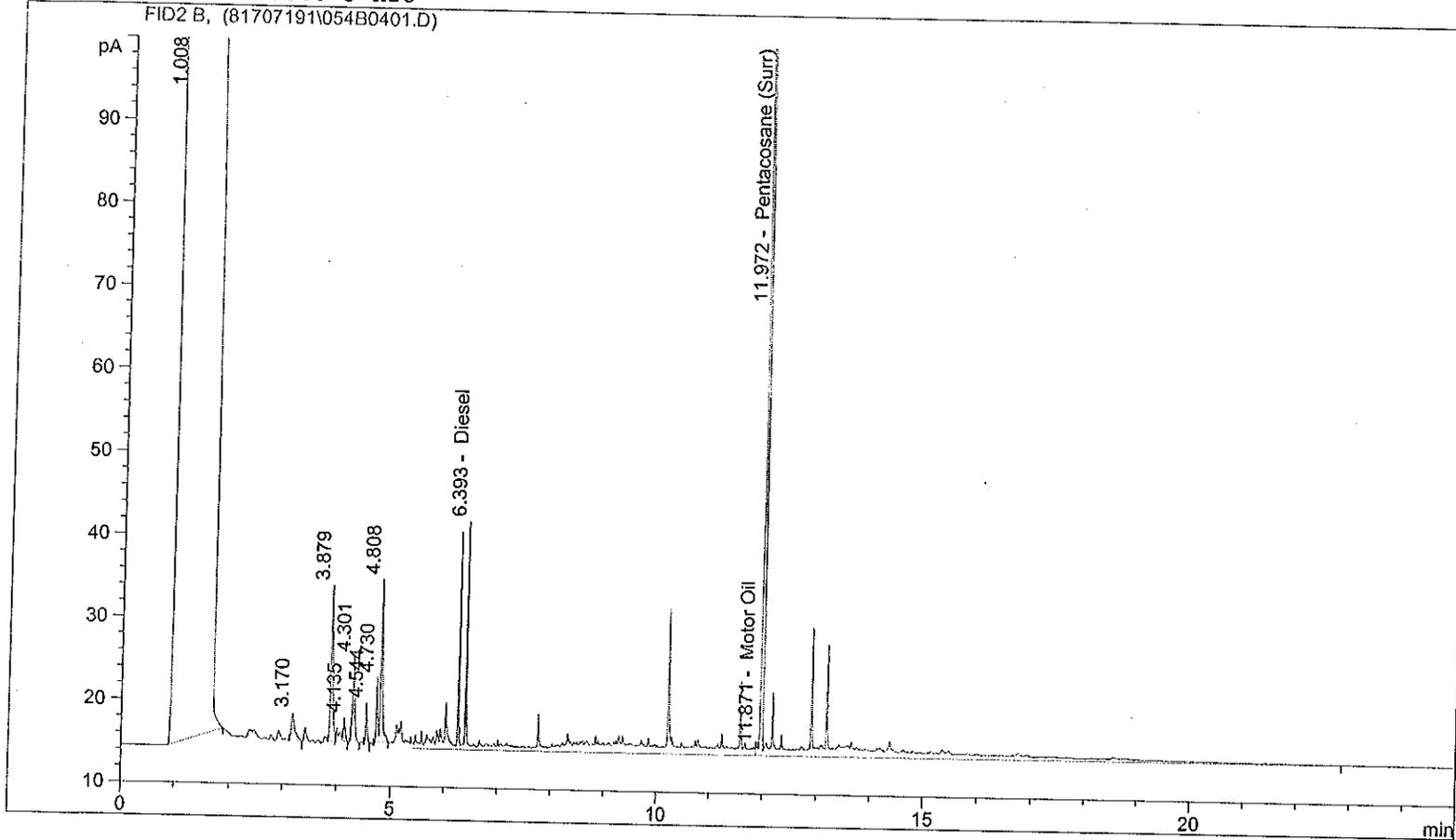
Gas < 20^{DL} 50 ug/L

Ret. Time	Compound Name	Area	Amount ug/L
4.170	MTBE	29852.373	0.773
6.833	Benzene	345520.281	3.520
8.618	TFT-Surrogate	305053.250	9.255
10.734	Toluene	21712.225	0.339
13.892	Ethylbenzene	12545.453	0.619
14.132	M & P- Xylenes	32550.279	0.831
14.862	O-Xylene	13122.002	0.355

ANALYZED BY CW
 8/20/07
 HWA

Instrument #81 Data File: C:\HPCHEM\1\DATA\81707191\054B0401.D
 Operator: EBS
 Method: C:\HPCHEM\1\METHODS\BDMO0607.M
 Injection Date & Time: 7/19/2007 11:28:03 AM 7/19/2007 11:28:03 AM
 Report Creation: 7/19/2007 11:59:15 AM

Sample Name: 707068-3 H2O



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
6.393	FID2 B,	Diesel	442.406	30.463
11.871		Motor Oil	364.189	5.564
11.972		Pentacosane (Surr)	667.895	43.135

108%

D < 0.13 mg/L
MO < 0.25 mg/L

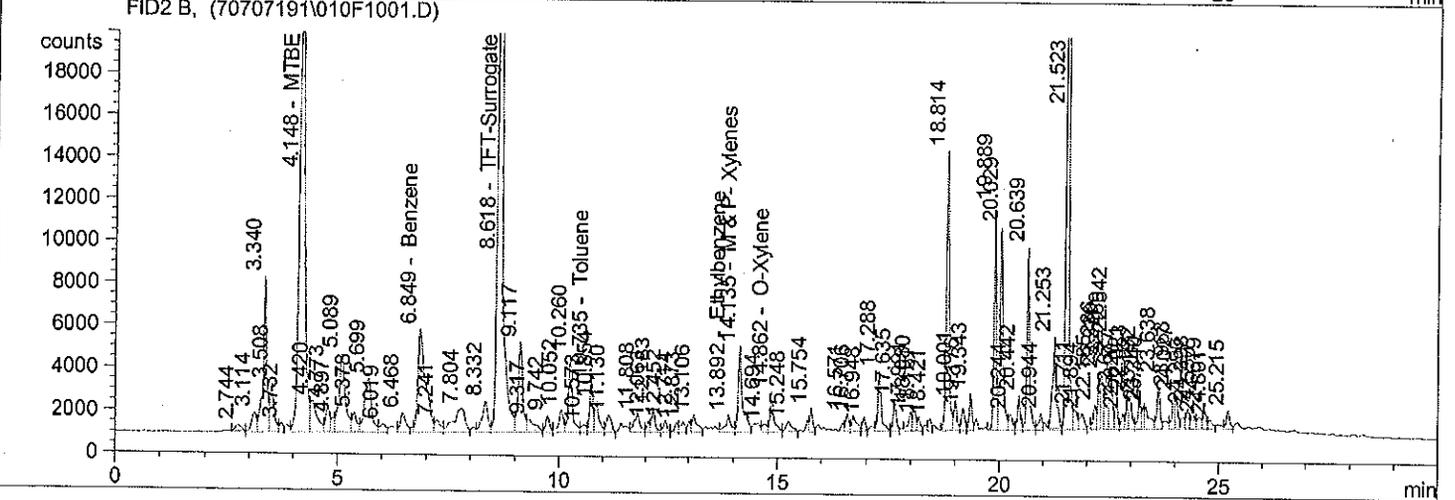
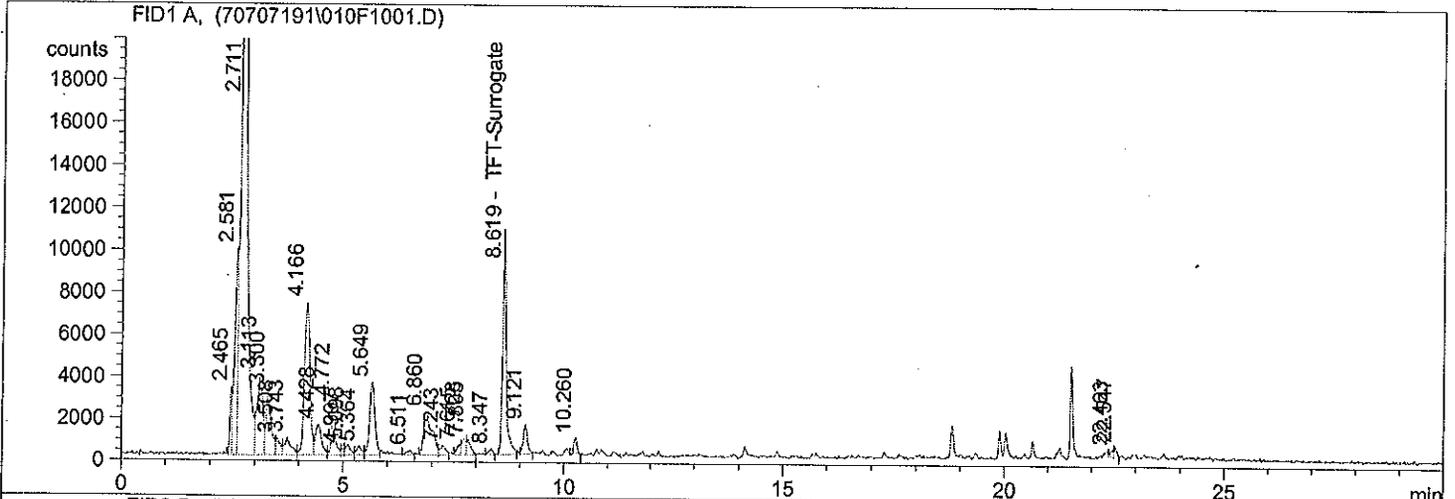
REVIEWED BY *CEW*
 & DATE *7/19/07*

07-19-07 ES

Gas/BTEX Instrument 70
 Data File: C:\HPCHEM\1\DATA\70707191\010F1001.D
 Injection Date & Time: 7/19/2007 12:34:17 PM
 Report Created on: 7/19/2007 1:04:57 PM
 Operator: DLC
 Acquisition Method: 70GB0507.M
 Analysis Method: C:\HPCHEM\1\METHODS\70GB0507.M

FID1 A equivalent to FID analysis.
 FID2 B equivalent to PID analysis.

Sample Name: 707068-4 5ML



Ret. Time	Compound Name	Area	Amount ug/L
8.619	TFT-Surrogate	63269.539	8.788
0.000	Gasoline Envelope	0.000	0.000

Gas < 50 µg/L

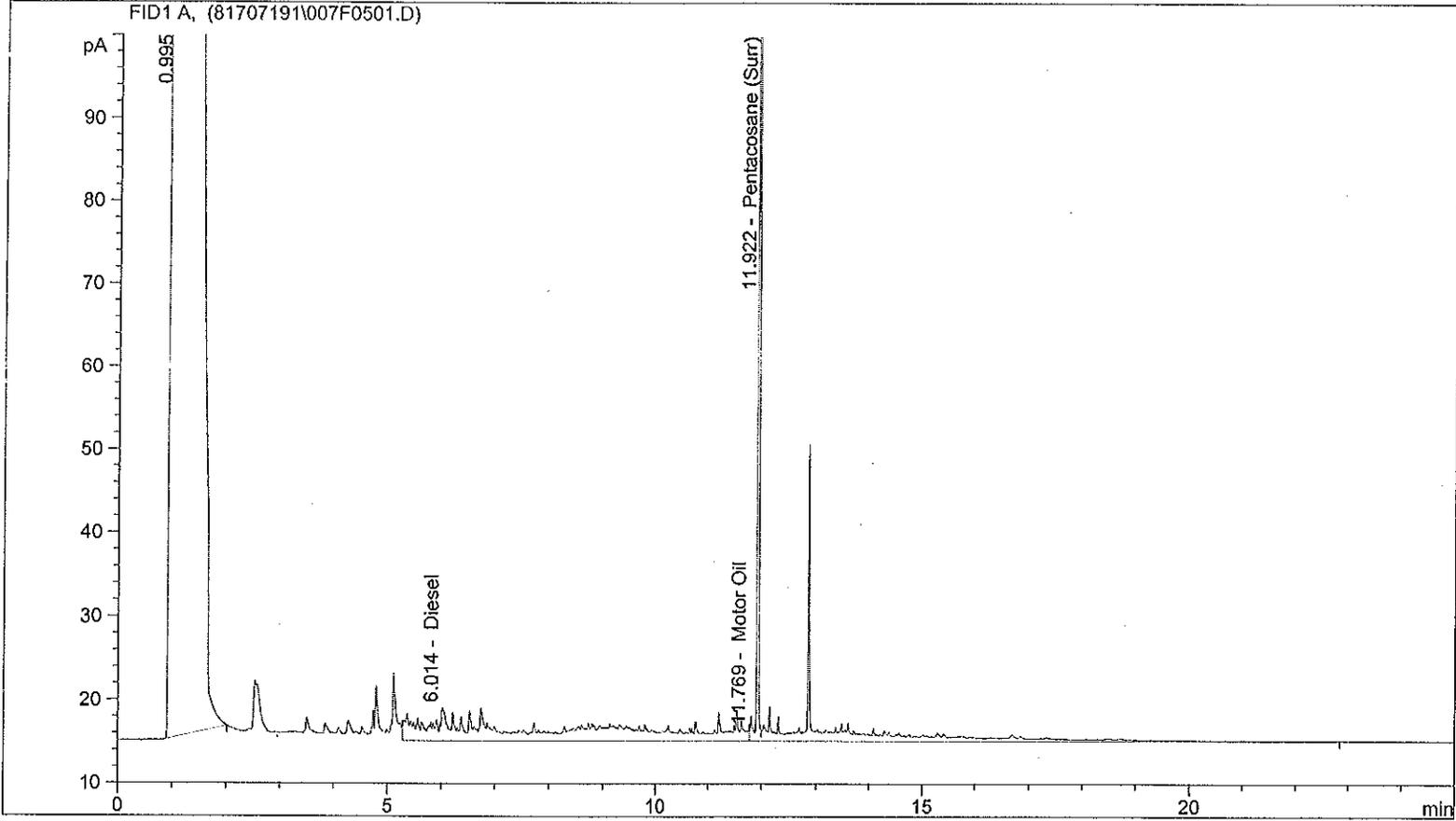
Ret. Time	Compound Name	Area	Amount ug/L
4.148	MTBE	183093.578	4.926
6.849	Benzene	58527.609	0.462
8.618	TFT-Surrogate	305273.406	9.262
10.735	Toluene	11512.980	0.226
13.892	Ethylbenzene	6644.170	0.543
14.135	M & P- Xylenes	27211.654	0.775
14.862	O-Xylene	10740.603	0.327

ANALYZED BY CCW
 8/1/07
 JMS

7-20-07 DC

Instrument #81 Data File: C:\HPCHEM\1\DATA\81707191\007F0501.D
 Operator: EBS
 Method: C:\HPCHEM\1\METHODS\FDMO0607.M
 Injection Date & Time: 7/19/2007 11:58:34 AM 7/19/2007 11:58:34 AM
 Report Creation: 7/19/2007 12:57:08 PM

Sample Name: 707068-4 H2O SGA



Ret. Time	Signal	Compound Name	Response	Amount ug/mL
6.014	FID1 A,	Diesel	550.107	40.749
11.769		Motor Oil	355.979	4.311
11.922		Pentacosane (Surr)	729.901	45.169 <i>113%</i>

D < 0.13 ng/L

MO < 0.25 ng/L

ANALYZED BY *CAW*
 DATE *7/19/07*

07.19.07 EJ



HWA GEOSCIENCES INC.

19730 64th Ave. W., Suite 200, Lynnwood, WA 98036 (425)774-0106
4500 Kruse Way, Suite 300, Lake Oswego, OR 97035 (503)875-2424

Chain of Custody and Laboratory Analysis Request

707068

DATE: 071807

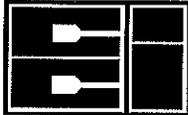
PAGE: 1 of 1

PROJECT NAME: BOTHEN CROSSROADS #: 2007-098
 SITE CODE: _____
 SAMPLERS NAME: JEFF SMOELL PHONE: 425 774.0106
 SAMPLERS SIGNATURE: [Signature]
 HWA CONTACT: VANCE ATKINS PHONE: 425-774-0106

ANALYSIS REQUESTED									
YOL 8260	NWTPH-DX	NWTPH-DC							

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE													REMARKS
MW-1	071807	0950	W	1	4	X	X	X										* 2 DAY TAT ↓
MW-2		1145		2	4	X	X	X										
MW-3		1110		3	4	X	X	X										
MW-4		1030		4	4	X	X	X										
TB-1	071807 YA	0830		5	1	X												

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
Relinquished by: <u>JEFF SMOELL</u>	<u>[Signature]</u>	<u>HWA GEO</u>	<u>071807</u>	<u>1540</u>	
Received by: <u>Halle S Kunst</u>	<u>[Signature]</u>	<u>CCAL</u>	<u>7/18/07</u>	<u>1540</u>	
Relinquished by:					
Received by:					



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CERTIFICATE OF ANALYSIS

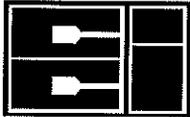
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:10 BH-5-6
CCIL SAMPLE #: -02

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	140	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	0.05	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	0.11	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	0.40	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	1.5	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<25)	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<50)	MG/KG	7/10/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Vinyl Chloride	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromomethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Methylene Chloride	EPA-8260	ND(<200)	UG/KG	7/20/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromochloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloroform	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Dibromomethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromodichloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,2-Trichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP



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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:10 BH-5-6
CCIL SAMPLE #: -02

DATA RESULTS

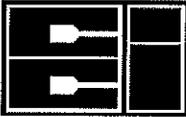
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromoform	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<500)	UG/KG	7/20/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY EXTREMELY WEATHERED GASOLINE.

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:15 BH-5-10
CCIL SAMPLE #: -03

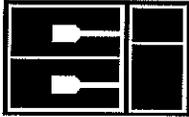
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<3)	MG/KG	7/19/2007	DLC
Benzene	EPA-8021	ND(<0.03)	MG/KG	7/19/2007	DLC
Toluene	EPA-8021	ND(<0.05)	MG/KG	7/19/2007	DLC
Ethylbenzene	EPA-8021	ND(<0.05)	MG/KG	7/19/2007	DLC
Xylenes	EPA-8021	ND(<0.2)	MG/KG	7/19/2007	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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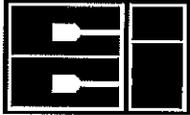
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:45 BH-3-6
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1200	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	0.39	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	1.2	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	1.3	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	2.7	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	9300	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<1000)	MG/KG	7/10/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Vinyl Chloride	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromomethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Methylene Chloride	EPA-8260	ND(<200)	UG/KG	7/20/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromochloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloroform	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Dibromomethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromodichloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,2-Trichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP



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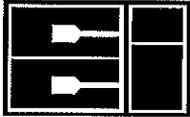
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:45 BH-3-6
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromoform	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<500)	UG/KG	7/20/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Naphthalene	EPA-8270 SIM	0.97	MG/KG	7/23/2007	RAL
1-Methylnaphthalene	EPA-8270 SIM	92	MG/KG	7/23/2007	RAL
2-Methylnaphthalene	EPA-8270 SIM	150	MG/KG	7/23/2007	RAL
Acenaphthylene	EPA-8270 SIM	1.8	MG/KG	7/23/2007	RAL
Acenaphthene	EPA-8270 SIM	7.0	MG/KG	7/23/2007	RAL
Fluorene	EPA-8270 SIM	9.5	MG/KG	7/23/2007	RAL
Phenanthrene	EPA-8270 SIM	13	MG/KG	7/23/2007	RAL
Anthracene	EPA-8270 SIM	1.1	MG/KG	7/23/2007	RAL
Fluoranthene	EPA-8270 SIM	0.18	MG/KG	7/23/2007	RAL
Pyrene	EPA-8270 SIM	0.41	MG/KG	7/23/2007	RAL
Benzo[A]Anthracene	EPA-8270 SIM	ND(<0.04)	MG/KG	7/23/2007	RAL
Chrysene	EPA-8270 SIM	0.07	MG/KG	7/23/2007	RAL
Benzo[B]Fluoranthene	EPA-8270 SIM	ND(<0.04)	MG/KG	7/23/2007	RAL
Benzo[K]Fluoranthene	EPA-8270 SIM	ND(<0.04)	MG/KG	7/23/2007	RAL
Benzo(A)Pyrene	EPA-8270 SIM	ND(<0.04)	MG/KG	7/23/2007	RAL
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND(<0.04)	MG/KG	7/23/2007	RAL
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND(<0.04)	MG/KG	7/23/2007	RAL



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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:45 BH-3-6
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND(<0.04)	MG/KG	7/23/2007	RAL
PCB-1016	EPA-8082	ND(<0.1)	MG/KG	7/19/2007	RAL
PCB-1221	EPA-8082	ND(<0.1)	MG/KG	7/19/2007	RAL
PCB-1232	EPA-8082	ND(<0.1)	MG/KG	7/19/2007	RAL
PCB-1242	EPA-8082	ND(<0.1)	MG/KG	7/19/2007	RAL
PCB-1248	EPA-8082	ND(<0.1)	MG/KG	7/19/2007	RAL
PCB-1254	EPA-8082	ND(<0.1)	MG/KG	7/19/2007	RAL
PCB-1260	EPA-8082	ND(<0.1)	MG/KG	7/19/2007	RAL
Arsenic	EPA-6010	ND(<5.0)	MG/KG	7/19/2007	ICP
Barium	EPA-6010	44	MG/KG	7/19/2007	ICP
Cadmium	EPA-6010	ND(<1.0)	MG/KG	7/19/2007	ICP
Chromium	EPA-6010	31	MG/KG	7/19/2007	ICP
Lead	EPA-6010	ND(<5.0)	MG/KG	7/19/2007	ICP
Mercury	EPA-7471	0.02	MG/KG	7/20/2007	ICP
Selenium	EPA-6010	ND(<5.0)	MG/KG	7/19/2007	ICP
Silver	EPA-6010	ND(<5.0)	MG/KG	7/19/2007	ICP

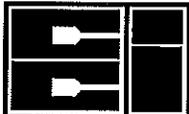
NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS WHICH ARE LIKELY EXTREMELY WEATHERED GAOLINE AND WEATHERED DIESEL FUEL.

VOLATILE RANGE RESULT IS BIASED HIGH DUE TO SEMIVOLATILE RANGE PRODUCT OVERLAP.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 9:50 BH-3-10
CCIL SAMPLE #: -07

DATA RESULTS

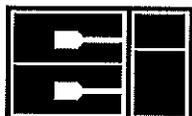
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<3)	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	ND(<0.03)	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	ND(<0.2)	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<25)	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	120	MG/KG	7/10/2007	EBS

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY LUBE OIL.

* ND* INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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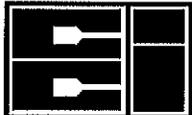
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 10:45 BH-4-6
CCIL SAMPLE #: -11

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	650	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	ND(<0.3)	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	ND(<0.5)	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	1.0	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	ND(<2)	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	670	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<50)	MG/KG	7/10/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Vinyl Chloride	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromomethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Methylene Chloride	EPA-8260	ND(<200)	UG/KG	7/20/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromochloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chloroform	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trichloroethene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Dibromomethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromodichloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,2-Trichloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP



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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 10:45 BH-4-6
CCIL SAMPLE #: -11

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Chlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromoform	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Bromobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<500)	UG/KG	7/20/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<100)	UG/KG	7/20/2007	GAP

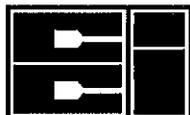
NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS EXTREMELY WEATHERED GASOLINE AND DIESEL FUEL #1 OR SIMILAR PRODUCTS.

DIESEL RESULT BIASED HIGH DUE TO VOLATILE RANGE PRODUCT OVERLAP.

* ND* INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 11:30 BH-2-6
CCIL SAMPLE #: -15

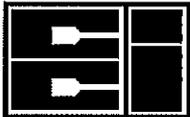
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<3)	MG/KG	7/10/2007	DLC
Benzene	EPA-8021	ND(<0.03)	MG/KG	7/10/2007	DLC
Toluene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Ethylbenzene	EPA-8021	ND(<0.05)	MG/KG	7/10/2007	DLC
Xylenes	EPA-8021	ND(<0.2)	MG/KG	7/10/2007	DLC
TPH-Diesel Range	NWTPH-DX	ND(<25)	MG/KG	7/10/2007	EBS
TPH-Oil Range	NWTPH-DX	ND(<50)	MG/KG	7/10/2007	EBS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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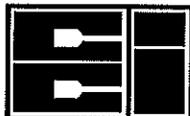
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:00 BH-2-W
CCIL SAMPLE #: -18

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	7/16/2007	DLC
TPH-Diesel Range	NWTPH-DX W/CLEANUP	ND(<130)	UG/L	7/16/2007	EBS
TPH-Oil Range	NWTPH-DX W/CLEANUP	ND(<250)	UG/L	7/16/2007	EBS
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/17/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/17/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/17/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP



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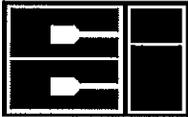
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:00 BH-2-W
CCIL SAMPLE #: -18

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/17/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/17/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/17/2007	GAP



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CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:00 BH-2-W
CCIL SAMPLE #: -18

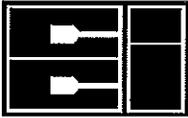
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 12:50 BH-13-6
CCIL SAMPLE #: -20

DATA RESULTS

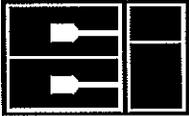
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX W/CLEANUP	ND(<25)	MG/KG	7/16/2007	EBS
TPH-Oil Range	NWTPH-DX W/CLEANUP	65	MG/KG	7/16/2007	EBS
Arsenic	EPA-6010	5.4	MG/KG	7/16/2007	CEO
Barium	EPA-6010	98	MG/KG	7/16/2007	CEO
Cadmium	EPA-6010	ND(<1.0)	MG/KG	7/16/2007	CEO
Chromium	EPA-6010	22	MG/KG	7/16/2007	CEO
Lead	EPA-6010	110	MG/KG	7/16/2007	CEO
Mercury	EPA-7471	0.06	MG/KG	7/17/2007	CEO
Selenium	EPA-6010	ND(<5.0)	MG/KG	7/16/2007	CEO
Silver	EPA-6010	ND(<5.0)	MG/KG	7/16/2007	CEO

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY LUBE OIL.

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CERTIFICATE OF ANALYSIS

CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 14:40 BH-11-W
CCIL SAMPLE #: -28

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	ND(<50)	UG/L	7/19/2007	DLC
Benzene	EPA-8021	ND(<1)	UG/L	7/19/2007	DLC
Toluene	EPA-8021	ND(<1)	UG/L	7/19/2007	DLC
Ethylbenzene	EPA-8021	ND(<1)	UG/L	7/19/2007	DLC
Xylenes	EPA-8021	ND(<3)	UG/L	7/19/2007	DLC
TPH-Diesel Range	NWTPH-DX W/CLEANUP	150	UG/L	7/19/2007	EBS
TPH-Oil Range	NWTPH-DX W/CLEANUP	ND(<250)	UG/L	7/19/2007	EBS
Arsenic	EPA-7060	49	UG/L	7/24/2007	CEO
Barium	EPA-6010	1200	UG/L	7/20/2007	ICP
Cadmium	EPA-6010	6	UG/L	7/20/2007	ICP
Chromium	EPA-6010	260	UG/L	7/20/2007	ICP
Lead	EPA-7421	95	UG/L	7/24/2007	CEO
Mercury	EPA-7470	0.41	UG/L	7/20/2007	ICP
Selenium	EPA-6010	ND(<40)	UG/L	7/20/2007	ICP
Silver	EPA-6010	ND(<30)	UG/L	7/20/2007	ICP

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY WEATHERED DIESEL FUEL.

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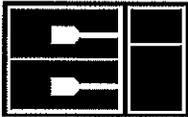
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 TB-070907
CCIL SAMPLE #: -33

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Vinyl Chloride	EPA-8260	ND(<0.2)	UG/L	7/11/2007	GAP
Bromomethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Acetone	EPA-8260	ND(<25)	UG/L	7/11/2007	GAP
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Methylene Chloride	EPA-8260	ND(<5)	UG/L	7/11/2007	GAP
Acrylonitrile	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2-Butanone	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromochloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chloroform	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trichloroethene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Dibromomethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
Toluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2-Hexanone	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP



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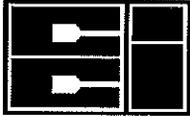
CLIENT: HWA GEOSCIENCES
19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 TB-070907
CCIL SAMPLE #: -33

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Chlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Ethylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
M+P Xylene	EPA-8260	ND(<4)	UG/L	7/11/2007	GAP
Styrene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
O-Xylene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromoform	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Bromobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	7/11/2007	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
Naphthalene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	7/11/2007	GAP



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19730 64TH AVE. W. SUITE 200
LYNNWOOD, WA 98036

DATE: 7/24/2007
CCIL JOB #: 0707022
DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING
CLIENT SAMPLE ID: 7/9/2007 TB-070907
CCIL SAMPLE #: -33

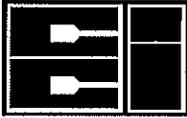
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
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* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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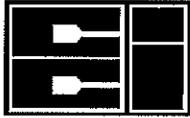
CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0707022-02	NWTPH-GX	TFT	83
0707022-02	EPA-8021	TFT	87
0707022-02	NWTPH-DX	C25	103
0707022-02	EPA-8260	1,2-Dichloroethane-d4	87
0707022-02	EPA-8260	4-Bromofluorobenzene	97
0707022-03	NWTPH-GX	TFT	69
0707022-03	EPA-8021	TFT	68
0707022-06	NWTPH-GX	TFT	*
0707022-06	EPA-8021	TFT	73
0707022-06	NWTPH-DX	C25	*
0707022-06	EPA-8260	1,2-Dichloroethane-d4	99
0707022-06	EPA-8260	4-Bromofluorobenzene	97
0707022-06	EPA-8270 SIM	Terphenyl-d14	154
0707022-06	EPA-8082	TCMX	76
0707022-06	EPA-8082	DCB	79
0707022-06	DILUTION EPA-8270 SIM	Terphenyl-d14	126
0707022-07	NWTPH-GX	TFT	70
0707022-07	EPA-8021	TFT	70
0707022-07	NWTPH-DX	C25	105
0707022-11	NWTPH-GX	TFT	*
0707022-11	EPA-8021	TFT	*
0707022-11	NWTPH-DX	C25	105
0707022-11	EPA-8260	1,2-Dichloroethane-d4	105
0707022-11	EPA-8260	4-Bromofluorobenzene	98
0707022-15	NWTPH-GX	TFT	82
0707022-15	EPA-8021	TFT	87
0707022-15	NWTPH-DX	C25	94
0707022-18	NWTPH-GX	TFT	106
0707022-18	NWTPH-DX W/CLEANUP	C25	109
0707022-18	EPA-8260	1,2-Dichloroethane-d4	106
0707022-18	EPA-8260	Toluene-d8	97
0707022-18	EPA-8260	4-Bromofluorobenzene	100
0707022-20	NWTPH-DX W/CLEANUP	C25	111
0707022-28	NWTPH-GX	TFT	97
0707022-28	EPA-8021	TFT	99
0707022-28	NWTPH-DX W/CLEANUP	C25	89
0707022-33	EPA-8260	1,2-Dichloroethane-d4	109
0707022-33	EPA-8260	Toluene-d8	94
0707022-33	EPA-8260	4-Bromofluorobenzene	102

* SURROGATE DILUTED OUT OF CALIBRATION RANGE



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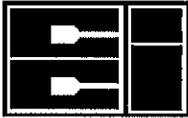
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
NWTPH-GX	Soil	GS070507	0707022 -2,6,7,11,15	TPH-Volatile Range	ND(<3)	MG/KG
NWTPH-GX	Soil	GS071907	0707022 -03	TPH-Volatile Range	ND(<3)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Benzene	ND(<0.03)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Toluene	ND(<0.05)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Ethylbenzene	ND(<0.05)	MG/KG
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Xylenes	ND(<0.2)	MG/KG
EPA-8021	Soil	GS071907	0707022 -03	Benzene	ND(<0.03)	MG/KG
EPA-8021	Soil	GS071907	0707022 -03	Toluene	ND(<0.05)	MG/KG
EPA-8021	Soil	GS071907	0707022 -03	Ethylbenzene	ND(<0.05)	MG/KG
EPA-8021	Soil	GS071907	0707022 -03	Xylenes	ND(<0.2)	MG/KG
NWTPH-DX	Soil	DS070907	0707022 -2,6,7,11,15	TPH-Diesel Range	ND(<25)	MG/KG
NWTPH-DX	Soil	DS070907	0707022 -2,6,7,11,15	TPH-Oil Range	ND(<50)	MG/KG
NWTPH-DX	Soil	DS071607	0707022 -20	TPH-Diesel Range	ND(<25)	MG/KG
NWTPH-DX	Soil	DS071607	0707022 -20	TPH-Oil Range	ND(<50)	MG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Dichlorodifluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Chloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Vinyl Chloride	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Bromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Chloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Trichlorofluoromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Methylene Chloride	ND(<20)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Trans-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Cis-1,2-Dichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	2,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Bromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Chloroform	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1,1-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Carbon Tetrachloride	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2-Dichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Trichloroethene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Dibromomethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Bromodichloromethane	ND(<10)	UG/KG



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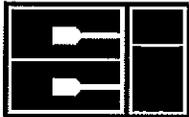
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Trans-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Cis-1,3-Dichloropropene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1,2-Trichloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,3-Dichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Tetrachloroethylene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Dibromochloromethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2-Dibromoethane	ND(<5)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Chlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1,1,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Bromoform	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1,2,2-Tetrachloroethane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2,3-Trichloropropane	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Bromobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	2-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	4-Chlorotoluene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,3 Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,4-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2-Dichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2-Dibromo 3-Chloropropane	ND(<50)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2,4-Trichlorobenzene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Hexachlorobutadiene	ND(<10)	UG/KG
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,2,3-Trichlorobenzene	ND(<10)	UG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Naphthalene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	1-Methylnaphthalene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	2-Methylnaphthalene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Acenaphthylene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Acenaphthene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Fluorene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Phenanthrene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Anthracene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Fluoranthene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Pyrene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Benzo[A]Anthracene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Chrysene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Benzo[B]Fluoranthene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Benzo[K]Fluoranthene	ND(<0.02)	MG/KG



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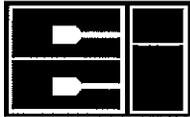
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Benzo(A)Pyrene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -08	Indeno[1,2,3-Cd]Pyrene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -08	Dibenz[A,H]Anthracene	ND(<0.02)	MG/KG
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Benzo[G,H,I]Perylene	ND(<0.02)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	PCB-1016	ND(<0.1)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	PCB-1221	ND(<0.1)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	PCB-1232	ND(<0.1)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	PCB-1242	ND(<0.1)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	PCB-1248	ND(<0.1)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	PCB-1254	ND(<0.1)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	PCB-1260	ND(<0.1)	MG/KG
EPA-8082	Soil	PS071907	0707022 -06	Chlordane	X	MG/KG
EPA-7471	Soil	HGS071707-1	0707022 -20	Mercury	ND(<0.02)	MG/KG
EPA-7471	Soil	HGS072007-1	0707022 -06	Mercury	ND(<0.02)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Arsenic	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Barium	ND(<3.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Cadmium	ND(<1.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Chromium	ND(<1.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Lead	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Selenium	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071607-2	0707022 -20	Silver	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071907-3	0707022 -06	Arsenic	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071907-3	0707022 -06	Barium	ND(<3.0)	MG/KG
EPA-6010	Soil	ICPS071907-3	0707022 -06	Cadmium	ND(<1.0)	MG/KG
EPA-6010	Soil	ICPS071907-3	0707022 -06	Chromium	ND(<1.0)	MG/KG
EPA-6010	Soil	ICPS071907-3	0707022 -06	Lead	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071907-3	0707022 -06	Selenium	ND(<5.0)	MG/KG
EPA-6010	Soil	ICPS071907-3	0707022 -06	Silver	ND(<5.0)	MG/KG
NWTPH-GX	Water	GW070907	0707022 -18	TPH-Volatile Range	ND(<50)	UG/L
NWTPH-GX	Water	GW071907	0707022 -28	TPH-Volatile Range	ND(<50)	UG/L
EPA-8021	Water	GW071907	0707022 -28	Benzene	ND(<1)	UG/L
EPA-8021	Water	GW071907	0707022 -28	Toluene	ND(<1)	UG/L
EPA-8021	Water	GW071907	0707022 -28	Ethylbenzene	ND(<1)	UG/L
EPA-8021	Water	GW071907	0707022 -28	Xylenes	ND(<3)	UG/L
NWTPH-DX	Water	DW071307	0707022 -18, 28	TPH-Diesel Range	ND(<130)	UG/L
NWTPH-DX	Water	DW071307	0707022 -18, 28	TPH-Oil Range	ND(<250)	UG/L



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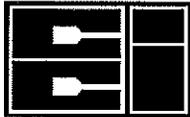
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QUALITY CONTROL RESULTS

BLANK RESULTS

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EPA-8260	Water	VW070907	0707022 -33	Dichlorodifluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chloromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Vinyl Chloride	ND(<0.2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromomethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trichlorofluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Acetone	ND(<25)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Methylene Chloride	ND(<5)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Acrylonitrile	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Methyl T-Butyl Ether	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trans-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2-Butanone	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Cis-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chloroform	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,1-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Carbon Tetrachloride	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Dibromomethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromodichloromethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Trans-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	4-Methyl-2-Pentanone	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Toluene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Cis-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,2-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2-Hexanone	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,3-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Tetrachloroethylene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Dibromochloromethane	ND(<2)	UG/L



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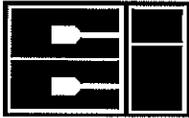
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DATE RECEIVED: 7/10/2007
WDOE ACCREDITATION #: C142

CLIENT CONTACT: VANCE ATKINS
CLIENT PROJECT ID: BETA BOTHELL LANDING

QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW070907	0707022 -33	1,2-Dibromoethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Chlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,1,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Ethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	M+P Xylene	ND(<4)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Styrene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	O-Xylene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromoform	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Isopropylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,1,2,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,3-Trichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Bromobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	N-Propyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	2-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,3,5-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	4-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	T-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,4-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	S-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	P-Isopropyltoluene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,3 Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,4-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	N-Butylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2-Dibromo 3-Chloropropane	ND(<10)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,4-Trichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Hexachlorobutadiene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	Naphthalene	ND(<2)	UG/L
EPA-8260	Water	VW070907	0707022 -33	1,2,3-Trichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Dichlorodifluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Vinyl Chloride	ND(<0.2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromomethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Trichlorofluoromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Acetone	ND(<25)	UG/L



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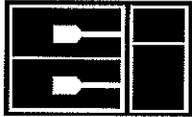
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Methylene Chloride	ND(<5)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Acrylonitrile	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Methyl T-Butyl Ether	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Trans-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2-Butanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Cis-1,2-Dichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chloroform	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,1-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Carbon Tetrachloride	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Trichloroethene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Dibromomethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromodichloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Trans-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	4-Methyl-2-Pentanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Toluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Cis-1,3-Dichloropropene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,2-Trichloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2-Hexanone	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,3-Dichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Tetrachloroethylene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Dibromochloromethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dibromoethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Chlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,1,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Ethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	M+P Xylene	ND(<4)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Styrene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	O-Xylene	ND(<2)	UG/L



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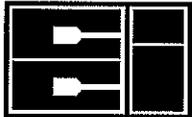
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QUALITY CONTROL RESULTS

BLANK RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	RESULT	UNITS
EPA-8260	Water	VW071707	0707022 -18	Bromoform	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Isopropylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,1,2,2-Tetrachloroethane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,3-Trichloropropane	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Bromobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	N-Propyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	2-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,3,5-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	4-Chlorotoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	T-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,4-Trimethylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	S-Butyl Benzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	P-Isopropyltoluene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,3-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,4-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	N-Butylbenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2-Dibromo 3-Chloropropane	ND(<10)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,4-Trichlorobenzene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Hexachlorobutadiene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	Naphthalene	ND(<2)	UG/L
EPA-8260	Water	VW071707	0707022 -18	1,2,3-Trichlorobenzene	ND(<2)	UG/L
EPA-7060	Water	AS-072407-2	0707022 -28	Arsenic	ND(<4)	UG/L
EPA-7470	Water	HGW072007-2	0707022 -28	Mercury	ND(<0.2)	UG/L
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Barium	ND(<20)	UG/L
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Cadmium	ND(<5)	UG/L
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Chromium	ND(<7)	UG/L
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Selenium	ND(<40)	UG/L
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Silver	ND(<30)	UG/L
EPA-7421	Water	PBW072407-01	0707022 -28	Lead	ND(<3)	UG/L



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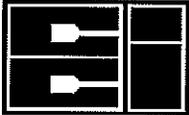
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QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
NWTPH-GX	Soil	GS070507	0707022 -2,6,7,11,15	TPH-Volatile Range	92 %	100 %	8
NWTPH-GX	Soil	GS071907	0707022 -03	TPH-Volatile Range	96 %	98 %	2
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Benzene	92 %	88 %	4
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Toluene	93 %	89 %	4
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Ethylbenzene	93 %	88 %	6
EPA-8021	Soil	GS070507	0707022 -2,6,7,11,15	Xylenes	93 %	86 %	8
EPA-8021	Soil	GS071907	0707022 -03	Benzene	86 %	90 %	5
EPA-8021	Soil	GS071907	0707022 -03	Toluene	89 %	93 %	4
EPA-8021	Soil	GS071907	0707022 -03	Ethylbenzene	89 %	93 %	4
EPA-8021	Soil	GS071907	0707022 -03	Xylenes	91 %	94 %	3
NWTPH-DX	Soil	DS070907	0707022 -2,6,7,11,15	TPH-Diesel Range	83 %	82 %	1
NWTPH-DX	Soil	DS071607	0707022 -20	TPH-Diesel Range	88 %	90 %	2
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	1,1-Dichloroethene	121 %	119 %	2
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Trichloroethene	110 %	106 %	4
EPA-8260	Soil	VS072007	0707022 -02, 06, 11	Chlorobenzene	111 %	107 %	4
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Naphthalene	94 %	106 %	12
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Acenaphthene	85 %	96 %	12
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Pyrene	116 %	139 %	18
EPA-8270 SIM	Soil	PAHS071807	0707022 -06	Benzo[G,H,I]Perylene	94 %	108 %	15
EPA-8082	Soil	PS071907	0707022 -06	PCB-1016	128 %	120 %	7
EPA-8082	Soil	PS071907	0707022 -06	PCB-1260	128 %	120 %	7
EPA-7471	Soil	HGS071707-1	0707022 -20	Mercury	97 %	96 %	1
EPA-7471	Soil	HGS072007-1	0707022 -06	Mercury	102 %	91 %	11
EPA-6010	Soil	ICPS071607-2	0707022 -20	Arsenic	106 %	104 %	2
EPA-6010	Soil	ICPS071607-2	0707022 -20	Barium	103 %	102 %	1
EPA-6010	Soil	ICPS071607-2	0707022 -20	Cadmium	103 %	102 %	1
EPA-6010	Soil	ICPS071607-2	0707022 -20	Chromium	103 %	103 %	0
EPA-6010	Soil	ICPS071607-2	0707022 -20	Lead	106 %	103 %	3
EPA-6010	Soil	ICPS071607-2	0707022 -20	Selenium	103 %	100 %	3
EPA-6010	Soil	ICPS071607-2	0707022 -20	Silver	99 %	98 %	1
EPA-6010	Soil	ICPS071907-3	0707022 -06	Arsenic	101 %	102 %	1
EPA-6010	Soil	ICPS071907-3	0707022 -06	Barium	101 %	101 %	0
EPA-6010	Soil	ICPS071907-3	0707022 -06	Cadmium	103 %	103 %	0
EPA-6010	Soil	ICPS071907-3	0707022 -06	Chromium	104 %	104 %	0
EPA-6010	Soil	ICPS071907-3	0707022 -06	Lead	102 %	102 %	0
EPA-6010	Soil	ICPS071907-3	0707022 -06	Selenium	106 %	105 %	1



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QUALITY CONTROL RESULTS

SPIKE/SPIKE DUPLICATE RESULTS

METHOD	MATRIX	QC BATCH ID	ASSOCIATED SAMPLES	ANALYTE	SPIKE RECOVERY	SPIKE DUP RECOVERY	RPD
EPA-6010	Soil	ICPS071907-3	0707022 -06	Silver	94 %	94 %	0
NWTPH-GX	Water	GW070907	0707022 -18	TPH-Volatile Range	107 %	99 %	8
NWTPH-GX	Water	GW071907	0707022 -28	TPH-Volatile Range	113 %	108 %	5
EPA-8021	Water	GW071907	0707022 -28	Benzene	100 %	97 %	3
EPA-8021	Water	GW071907	0707022 -28	Toluene	102 %	99 %	3
EPA-8021	Water	GW071907	0707022 -28	Ethylbenzene	101 %	99 %	2
EPA-8021	Water	GW071907	0707022 -28	Xylenes	101 %	99 %	2
NWTPH-DX	Water	DW071307	0707022 -18, 28	TPH-Diesel Range	84 %	87 %	4
EPA-8260	Water	VW070907	0707022 -33	1,1-Dichloroethene	101 %	118 %	15
EPA-8260	Water	VW070907	0707022 -33	Benzene	113 %	120 %	6
EPA-8260	Water	VW070907	0707022 -33	Trichloroethene	109 %	119 %	9
EPA-8260	Water	VW070907	0707022 -33	Toluene	108 %	115 %	6
EPA-8260	Water	VW070907	0707022 -33	Chlorobenzene	109 %	114 %	4
EPA-8260	Water	VW071707	0707022 -18	1,1-Dichloroethene	93 %	100 %	7
EPA-8260	Water	VW071707	0707022 -18	Benzene	100 %	99 %	1
EPA-8260	Water	VW071707	0707022 -18	Trichloroethene	107 %	99 %	7
EPA-8260	Water	VW071707	0707022 -18	Toluene	102 %	99 %	3
EPA-8260	Water	VW071707	0707022 -18	Chlorobenzene	102 %	101 %	1
EPA-7060	Water	AS-072407-2	0707022 -28	Arsenic	113 %	116 %	3
EPA-7470	Water	HGW072007-2	0707022 -28	Mercury	97 %	102 %	5
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Barium	97 %	98 %	1
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Cadmium	101 %	102 %	1
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Chromium	102 %	102 %	0
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Selenium	98 %	100 %	2
EPA-6010	Water	ICPMET-W-071207-1	0707022 -28	Silver	96 %	103 %	7
EPA-7421	Water	PBW072407-01	0707022 -28	Lead	100 %	107 %	7

APPROVED BY:



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19730 64th Ave. W., Suite 200, Lynnwood, WA 98036 (425)774-0106
4500 Kruse Way, Suite 300, Lake Oswego, OR 97035 (503)675-2424

Chain of Custody and Laboratory Analysis Request

707022

DATE: 7/19/07
PAGE: 1 of

PROJECT NAME: BETA BOTWELL Landfill # 2007-098
SITE CODE: _____
SAMPLERS NAME: Archie PHONE: _____
SAMPLERS SIGNATURE: [Signature]
HWA CONTACT: " " PHONE: _____
CC Archie

ANALYSIS REQUESTED										
MSGH-D	MSGH-G	MSGH-M	VOCs-820	PCs-808	PAH-820 Sign	EDS/EDC/MTELE	HVOC			

2 DAY TAG

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE	MSGH-D	MSGH-G	MSGH-M	VOCs-820	PCs-808	PAH-820 Sign	EDS/EDC/MTELE	HVOC	REMARKS
BH-5-2	7/9/07	905		1	2									
DH-5-6		910		2	5	X	⊗						▲	SO35A
BH-5-10		915		3	2		⊗							▲ Added 7/20/07 2 day
BH-5-14		920		4	2									⊗ Added 7/19/07 2 day
BH-5-2		940		5	2									⊗ Added 7/14/07 2 day
L-6		945		6	5	X	X	⊗	▲	⊗	⊗		▲	SO35A
L-10		950		7	2	X	X							
L-14		1035		8	2									
L-18		1015		9	2									
BH-4-2		1040		10	2									
L-6		1045		11	5	X	X	▲					▲	SO35A
L-8		1050												
L-10		1050		12	2									
L-14		1100		13	2									
BH-2-2		1125		14	2									
L-2-6		1130		15	5	X	X							SO35A
L-10		1135		16	2									
L-14		1145		17	2									
BH-2-W		1200		18	9	⊗	⊗	⊗						add
BH-13-2		1245		19	2									

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
Relinquished by: <u>Vance Archie</u>	<u>[Signature]</u>	HWA	7/19/07	1730	
Received by: <u>[Signature]</u>	<u>[Signature]</u>	CCIAL	7/19/07	1730	
Relinquished by:					
Received by:					

DISTRIBUTION: WHITE - Return to HWA; YELLOW - Retain by Lab; PINK - Retain by Sampler



HWA GEOSCIENCES INC.

19730 64th Ave. W., Suite 200, Lynnwood, WA 98036 (425)774-0106
4500 Kruse Way, Suite 300, Lake Oswego, OR 97035 (503)675-2424

Chain of Custody and Laboratory Analysis Request

707022

DATE: 7/9/02
PAGE: 2 of 2

PROJECT NAME: BETA BORQUEL Landing #: 2007-092
SITE CODE: _____
SAMPLERS NAME: ATKINS PHONE: _____
SAMPLERS SIGNATURE: [Signature]
HWA CONTACT: cc Annix PHONE: _____

ANALYSIS REQUESTED

<u>Metals - Pb</u>	<u>Metals - Cr/Beta</u>	<u>Refractometry</u>	<u>Voc's - 8260</u>	<u>POB - 8082</u>	<u>PAH - 8230 Sim</u>	<u>EDX/ERC/MSIS</u>														
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			

2 Day

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE	REMARKS
BH-13-6	7/9/02	1200		20	5	
BH-13-10		1230		21	2	5035A
BH-13-14		1300		22	2	
BH-13-20		1320	H ₂ O	23	9	
DH-11-2		1405		24	5	
BH-11-6		1410		25	2	5035A
BH-11-10		1415		26	2	
DH-11-14		1420		27	2	
DH-11-20		1440	H ₂ O	28	9	
BH-10-2		1540		29	2	
BH-10-6		1545		30	5	
BH-10-10		1550		31	2	5035A
BH-10-14		1555		32	2	
TB-070907			H ₂ O	33	1	

⊗ Added 7/16/07 2day
● Added 7/19/07 2day

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
Relinquished by: <u>James Atkins</u>	<u>[Signature]</u>				
Received by: <u>Rick Bayne</u>	<u>[Signature]</u>	<u>HWA</u>	<u>7/9/02</u>	<u>1730</u>	
Relinquished by:		<u>CEAL</u>	<u>7/9/02</u>	<u>1730</u>	
Received by:					



**OnSite
Environmental Inc.**
Analytical Testing and Mobile Laboratory Services

Received
APR 14 2009

April 10, 2009

Pam Morrill
CDM
P.O. Box 3885
Bellevue, WA 98009

Re: Analytical Data for Project 19897.68445
Laboratory Reference No. 0904-018

Dear Pam:

Enclosed are the analytical results and associated quality control data for samples submitted on April 3, 2009.

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

Date of Report: April 10, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-018
Project: 19897.68445

Case Narrative

Samples were collected on April 1 and 2, 2009, and received by the laboratory on April 3, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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.

Halogenated Volatiles EPA 8260B (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory (except as noted below) 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.

Method 5035A VOA vials were not provided for sample B17-11. The sample was therefore extracted from a 4-ounce jar.

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.

Halogenated Volatiles EPA 8260B (water) Analysis

Due to the levels of sediment present in the VOAs provided for sample B4-W, the aqueous layers from two VOAs were combined to perform the requested analysis. Some loss of volatiles may have occurred.

Due to the levels of sediment present in the VOAs provided for sample B5-W, the aqueous layers from three VOAs were combined to perform the requested analysis. Some loss of volatiles may have occurred.

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.

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

NWTPH-HCID

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	B6-8	B7-9	B13-6
Lab ID:	04-018-05	04-018-07	04-018-09
Gasoline:	ND	ND	ND
PQL:	25	24	24
Diesel Fuel:	ND	ND	ND
PQL:	62	61	61
Lube Oil:	ND	ND	ND
PQL:	120	120	120
Surrogate Recovery:			
o-Terphenyl	98%	98%	96%
Flags:	Y	Y	Y

Date of Report: April 10, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-018
Project: 19897.68445

**NWTPH-HCID
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-6-09
Date Analyzed: 4-6-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0406S1

Gasoline: **ND**
PQL: 20

Diesel Fuel: **ND**
PQL: 50

Lube Oil: **ND**
PQL: 100

Surrogate Recovery:
o-Terphenyl 103%

Flags Y

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

NWTPH-HCID

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	B6-W	B7-W	B13-W
Lab ID:	04-018-06	04-018-08	04-018-10
Gasoline:	ND	ND	ND
PQL:	0.11	0.11	0.10
Diesel Fuel:	ND	ND	ND
PQL:	0.27	0.26	0.25
Lube Oil:	ND	ND	ND
PQL:	0.44	0.42	0.40
Surrogate Recovery:			
o-Terphenyl	103%	114%	112%
Flags:	Y	Y	Y

Date of Report: April 10, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-018
Project: 19897.68445

**NWTPH-HCID
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-3-09
Date Analyzed: 4-3-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0403W1

Gasoline: **ND**
PQL: 0.10

Diesel Fuel: **ND**
PQL: 0.25

Lube Oil: **ND**
PQL: 0.40

Surrogate Recovery:
o-Terphenyl 106%

Flags Y

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-018-01
 Client ID: B4-6

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0012
Chloromethane	ND		0.0060
Vinyl Chloride	ND		0.0012
Bromomethane	ND		0.0012
Chloroethane	ND		0.0060
Trichlorofluoromethane	ND		0.0012
1,1-Dichloroethene	ND		0.0012
Iodomethane	ND		0.0060
Methylene Chloride	ND		0.0060
(trans) 1,2-Dichloroethene	ND		0.0012
1,1-Dichloroethane	ND		0.0012
2,2-Dichloropropane	ND		0.0012
(cis) 1,2-Dichloroethene	ND		0.0012
Bromochloromethane	ND		0.0012
Chloroform	ND		0.0012
1,1,1-Trichloroethane	ND		0.0012
Carbon Tetrachloride	ND		0.0012
1,1-Dichloropropene	ND		0.0012
1,2-Dichloroethane	ND		0.0012
Trichloroethene	ND		0.0012
1,2-Dichloropropane	ND		0.0012
Dibromomethane	ND		0.0012
Bromodichloromethane	ND		0.0012
2-Chloroethyl Vinyl Ether	ND		0.0060
(cis) 1,3-Dichloropropene	ND		0.0012
(trans) 1,3-Dichloropropene	ND		0.0012

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 04-018-01
 Client ID: B4-6

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0012
Tetrachloroethene	ND		0.0012
1,3-Dichloropropane	ND		0.0012
Dibromochloromethane	ND		0.0012
1,2-Dibromoethane	ND		0.0012
Chlorobenzene	ND		0.0012
1,1,1,2-Tetrachloroethane	ND		0.0012
Bromoform	ND		0.0012
Bromobenzene	ND		0.0012
1,1,2,2-Tetrachloroethane	ND		0.0012
1,2,3-Trichloropropane	ND		0.0012
2-Chlorotoluene	ND		0.0012
4-Chlorotoluene	ND		0.0012
1,3-Dichlorobenzene	ND		0.0012
1,4-Dichlorobenzene	ND		0.0012
1,2-Dichlorobenzene	ND		0.0012
1,2-Dibromo-3-chloropropane	ND		0.0060
1,2,4-Trichlorobenzene	ND		0.0012
Hexachlorobutadiene	ND		0.0060
1,2,3-Trichlorobenzene	ND		0.0012

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	82	70-118
Toluene-d8	99	70-121
4-Bromofluorobenzene	84	70-130

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-018-03
 Client ID: B5-8

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0057
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0057
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0057
Methylene Chloride	ND		0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	0.034		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	0.0086		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0057
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 04-018-03
 Client ID: B5-8

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0057
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0057
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	86	70-118
Toluene-d8	94	70-121
4-Bromofluorobenzene	81	70-130

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-018-05
 Client ID: B6-8

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0055
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0055
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0055
Methylene Chloride	ND		0.0055
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	0.0027		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0055
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 04-018-05
 Client ID: B6-8

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0055
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0055
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	89	70-118
Toluene-d8	102	70-121
4-Bromofluorobenzene	92	70-130

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-018-07
 Client ID: B7-9

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0052
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0052
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0052
Methylene Chloride	ND		0.0052
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0052
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 04-018-07
 Client ID: B7-9

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	0.0012		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0052
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0052
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	70-118
Toluene-d8	100	70-121
4-Bromofluorobenzene	91	70-130

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-018-09
 Client ID: B13-6

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0055
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0055
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0055
Methylene Chloride	ND		0.0055
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0055
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 04-018-09
 Client ID: B13-6

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0055
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0055
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	70-118
Toluene-d8	98	70-121
4-Bromofluorobenzene	90	70-130

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-018-11
 Client ID: B17-11

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0057
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0057
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0057
Methylene Chloride	ND		0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0057
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 04-018-11
 Client ID: B17-11

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0057
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0057
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	70-118
Toluene-d8	97	70-121
4-Bromofluorobenzene	92	70-130

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0403S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Lab ID: MB0403S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	70-118
Toluene-d8	93	70-121
4-Bromofluorobenzene	89	70-130

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-3-09
 Date Analyzed: 4-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 04-018-11

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	0.0500	0.0472	94	0.0516	103	70-130	
Benzene	ND	0.0500	0.0440	88	0.0488	98	70-130	
Trichloroethene	ND	0.0500	0.0542	108	0.0536	107	70-124	
Toluene	ND	0.0500	0.0469	94	0.0507	101	70-130	
Chlorobenzene	ND	0.0500	0.0508	102	0.0515	103	72-127	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	9	14	
Benzene	10	17	
Trichloroethene	1	11	
Toluene	8	16	
Chlorobenzene	1	15	

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 4-7-09
 Date Analyzed: 4-7-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-018-02
 Client ID: B4-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 04-018-02
 Client ID: B4-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	90		71-126
Toluene-d8	88		76-116
4-Bromofluorobenzene	79		70-123

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 4-7-09
 Date Analyzed: 4-7-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-018-04
 Client ID: B5-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 04-018-04
 Client ID: B5-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	94		71-126
Toluene-d8	88		76-116
4-Bromofluorobenzene	79		70-123

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-7-09
 Date Analyzed: 4-7-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-018-06
 Client ID: B6-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.40
Chloromethane	ND		2.0
Vinyl Chloride	0.89		0.40
Bromomethane	ND		0.40
Chloroethane	ND		2.0
Trichlorofluoromethane	ND		0.40
1,1-Dichloroethene	ND		0.40
Iodomethane	ND		2.0
Methylene Chloride	ND		4.0
(trans) 1,2-Dichloroethene	0.66		0.40
1,1-Dichloroethane	ND		0.40
2,2-Dichloropropane	ND		0.40
(cis) 1,2-Dichloroethene	76		0.40
Bromochloromethane	ND		0.40
Chloroform	ND		0.40
1,1,1-Trichloroethane	ND		0.40
Carbon Tetrachloride	ND		0.40
1,1-Dichloropropene	ND		0.40
1,2-Dichloroethane	6.5		0.40
Trichloroethene	6.4		0.40
1,2-Dichloropropane	ND		0.40
Dibromomethane	ND		0.40
Bromodichloromethane	ND		0.40
2-Chloroethyl Vinyl Ether	ND		2.0
(cis) 1,3-Dichloropropene	ND		0.40
(trans) 1,3-Dichloropropene	ND		0.40

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 04-018-06
 Client ID: B6-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.40
Tetrachloroethene	3.4		0.40
1,3-Dichloropropane	ND		0.40
Dibromochloromethane	ND		0.40
1,2-Dibromoethane	ND		0.40
Chlorobenzene	ND		0.40
1,1,1,2-Tetrachloroethane	ND		0.40
Bromoform	ND		2.0
Bromobenzene	ND		0.40
1,1,2,2-Tetrachloroethane	ND		0.40
1,2,3-Trichloropropane	ND		0.40
2-Chlorotoluene	ND		0.40
4-Chlorotoluene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,2-Dibromo-3-chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
1,2,3-Trichlorobenzene	ND		0.40

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	92	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	81	70-123

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-7-09
 Date Analyzed: 4-7-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-018-08
 Client ID: B7-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 04-018-08
 Client ID: B7-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	89		71-126
Toluene-d8	88		76-116
4-Bromofluorobenzene	79		70-123

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 4-7-09
 Date Analyzed: 4-7-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-018-10
 Client ID: B13-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 04-018-10
 Client ID: B13-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	1.2		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	92	71-126
Toluene-d8	89	76-116
4-Bromofluorobenzene	78	70-123

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 4-7-09
 Date Analyzed: 4-7-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-018-12
 Client ID: B17-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 04-018-12
 Client ID: B17-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	92		71-126
Toluene-d8	88		76-116
4-Bromofluorobenzene	78		70-123

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Date Extracted: 4-7-09
 Date Analyzed: 4-7-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0407W2

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Lab ID: MB0407W2

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	91		71-126
Toluene-d8	89		76-116
4-Bromofluorobenzene	77		70-123

Date of Report: April 10, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-018
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-7-09

Date Analyzed: 4-7-09

Matrix: Water

Units: ug/L (ppb)

Lab ID: 04-018-08

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	10.0	10.6	106	9.87	99	70-130	
Benzene	ND	10.0	11.2	112	10.7	107	70-130	
Trichloroethene	ND	10.0	10.4	104	10.1	101	77-114	
Toluene	ND	10.0	10.8	108	10.7	107	79-121	
Chlorobenzene	ND	10.0	10.1	101	9.99	100	77-108	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	7	11	
Benzene	5	11	
Trichloroethene	3	10	
Toluene	1	11	
Chlorobenzene	2	10	

Chain of Custody

Company: <u>CDM</u> Project Number: <u>19897.68445</u> Project Name: <u>Bothell X-roads</u> Project Manager: <u>Pam Morrill</u> Sampled by: <u>August Welch</u>						Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Standard (7 working days) (TPH analysis 5 working days) <input type="checkbox"/> _____ (other)		Laboratory Number: 04-018												
						Requested Analysis														
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture	
1	B4-6	4/2/09	110	S	5					X										X
2	B4-W	4/2/09	125	W	3					X										
3	B5-8	4/2/09	1220 ^{pm}	S	5					X										X
4	B5-W	4/2/09	1230 ^{am}	W	3					X										
5	B6-8	4/1/09	2250	S	5	X				X										X
6	B6-W	4/1/09	2335	W	8	X				X										
7	B7-9	4/1/09	1025	S	5	X				X										X
8	B7-W	4/1/09	1045	W	8	X				X										
9	B13-6	4/2/09	200	S	5	X				X										X
10	B13-W	4/2/09	210	W	58	X				X										
Signature		Company		Date	Time	Comments/Special Instructions:														
Relinquished by		CDM		4/2/09	430	+ B17-11 vials														
Received by		CORE		4/2/09	1215															
Relinquished by																				
Received by		CORE		4/3/09	1200A															
Relinquished by																				
Received by																				
Reviewed by/Date		Reviewed by/Date		Chromatograms with final report <input type="checkbox"/>																

Chain of Custody

Company: <u>CDM</u> Project Number: <u>19897.68445</u> Project Name: <u>Bothell X-roads</u> Project Manager: <u>Pam Morrill</u> Sampled by: <u>August Welsh</u>	Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Standard (7 working days) (TPH analysis 5 working days) <input type="checkbox"/> _____ (other)	Laboratory Number: 04-018 Requested Analysis
---	---	--

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total PCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture	
11	B17-11	4/2/09	245	S	81					X										X
12	B17-W		315	W	3					X										

	Signature	Company	Date	Time	Comments/Special Instructions:
Relinquished by	<u>Jennifer Smith</u>	<u>CDM</u>	<u>4/2/09</u>	<u>430</u>	<u>X B17-11 vol</u>
Received by	<u>[Signature]</u>	<u>OSE</u>	<u>4/2/09</u>	<u>1215</u>	
Relinquished by	<u>[Signature]</u>	<u>OSE</u>	<u>4/3/09</u>	<u>1200</u>	
Received by	<u>[Signature]</u>	<u>OSE</u>	<u>4/3/09</u>	<u>1200</u>	
Relinquished by	<u>[Signature]</u>	<u>OSE</u>	<u>4/3/09</u>	<u>1200</u>	
Received by	<u>[Signature]</u>	<u>OSE</u>	<u>4/3/09</u>	<u>1200</u>	
Reviewed by/Date		Reviewed by/Date			Chromatograms with final report <input type="checkbox"/>



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

April 14, 2009

Pam Morrill
CDM
P.O. Box 3885
Bellevue, WA 98009

Re: Analytical Data for Project 19897.68445
Laboratory Reference No. 0904-032

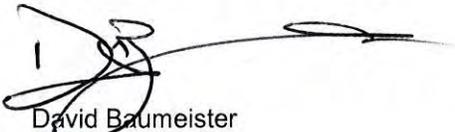
Dear Pam:

Enclosed are the analytical results and associated quality control data for samples submitted on April 3, 2009.

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

Received

APR 17 2009

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

Case Narrative

Samples were collected on April 2 and 3, 2009, and received by the laboratory on April 3, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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/BTEX (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.

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.

Halogenated Volatiles (soil) EPA 8260B 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.

Internal Standard 1,4-Dichlorobenzene-d4 does not meet acceptance criteria for sample B15-10 due to sample matrix effects. The sample was re-analyzed with similar results. All results, including Practical Quantitation Limits, from Bromobenzene onward should be considered estimates.

Some MTCA cleanup levels are non-achievable for samples B3-9 and B19-7 due to the necessary dilution of the samples.

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.

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

NWTPH-HCID

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	B2-7	B3-9	B19-7
Lab ID:	04-032-01	04-032-03	04-032-10
Gasoline:	ND	Gasoline Range Hydrocarbons	ND
PQL:	30	37	30
Diesel Fuel:	ND	Diesel Range Organics	ND
PQL:	75	93	76
Lube Oil:	ND	Lube Oil	ND
PQL:	150	190	150
Surrogate Recovery:			
o-Terphenyl	78%	79%	83%
Flags:	Y	Y	Y

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

**NWTPH-HCID
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-6-09
Date Analyzed: 4-6-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0406S1

Gasoline: **ND**
PQL: 20

Diesel Fuel: **ND**
PQL: 50

Lube Oil: **ND**
PQL: 100

Surrogate Recovery:
o-Terphenyl 103%

Flags Y

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

NWTPH-HCID

Date Extracted: 4-6-09
 Date Analyzed: 4-6&7-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	B2-W	B3-W	B19-W
Lab ID:	04-032-02	04-032-04	04-032-11

	Gasoline Range Hydrocarbons	Gasoline Range Hydrocarbons	Gasoline Range Hydrocarbons
Gasoline:			
PQL:	0.10	0.12	0.10
Diesel Fuel:	ND	ND	ND
PQL:	0.26	0.30	0.26
Lube Oil:	ND	ND	ND
PQL:	0.42	0.49	0.42
Surrogate Recovery:			
o-Terphenyl	81%	67%	91%
Flags:	Y	Y	Y

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

**NWTPH-HCID
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-6-09
Date Analyzed: 4-6-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0406W1

Gasoline: **ND**
PQL: 0.050

Diesel Fuel: **ND**
PQL: 0.13

Lube Oil: **ND**
PQL: 0.20

Surrogate Recovery:
o-Terphenyl 69%

Flags Y

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

NWTPH-Gx/BTEX

Date Extracted: 4-9-09
Date Analyzed: 4-9-09

Matrix: Soil
Units: mg/kg (ppm)

Client ID: **B3-9**
Lab ID: 04-032-03

	Result	Flags	PQL
Benzene	6.0		0.030
Toluene	1.1		0.15
Ethyl Benzene	12		0.15
m,p-Xylene	11		0.15
o-Xylene	0.51		0.15
TPH-Gas	720		15
Surrogate Recovery: Fluorobenzene	88%		

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-9-09
Date Analyzed: 4-9-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0409S1

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	84%		

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 4-9-09

Date Analyzed: 4-9-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID:	04-035-03 Original	04-035-03 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery: Fluorobenzene	78%	81%		

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 3.25

Lab ID:	04-035-03 MS	Percent Recovery	04-035-03 MSD	Percent Recovery	RPD	Flags
Benzene	3.30	101	3.29	101	0	
Toluene	3.35	103	3.28	101	2	
Ethyl Benzene	3.30	101	3.28	101	1	
m,p-Xylene	3.30	101	3.25	100	2	
o-Xylene	3.18	98	3.15	97	1	
Surrogate Recovery:						
Fluorobenzene	83%		83%			

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

NWTPH-Gx/BTEX

Date Extracted: 4-10&13-09
 Date Analyzed: 4-10&13-09

Matrix: Water
 Units: ug/L (ppb)

Client ID: **B2-W** **B3-W**
 Lab ID: 04-032-02 04-032-04

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		1.0	5.7		1.0
Toluene	ND		1.0	ND		1.0
Ethyl Benzene	ND		1.0	3.5		1.0
m,p-Xylene	1.3		1.0	4.1		1.0
o-Xylene	ND		1.0	ND		1.0
TPH-Gas	210		100	270		100
Surrogate Recovery: Fluorobenzene	94%			91%		

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

NWTPH-Gx/BTEX

Date Extracted: 4-10-09
 Date Analyzed: 4-10-09

Matrix: Water
 Units: ug/L (ppb)

Client ID: **B19-W**
 Lab ID: 04-032-11

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	1.5		1.0
o-Xylene	ND		1.0
TPH-Gas	380		100
Surrogate Recovery: Fluorobenzene	93%		

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-10-09
Date Analyzed: 4-10-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0410W2

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	90%		

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-13-09
Date Analyzed: 4-13-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0413W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	92%		

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 4-13-09
 Date Analyzed: 4-13-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID:	04-032-02 Original	04-032-02 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	1.26	1.35	7	
o-Xylene	ND	ND	NA	
TPH-Gas	209	245	16	
Surrogate Recovery: Fluorobenzene	94%	95%		

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-10-09
 Date Analyzed: 4-10-09

Matrix: Water
 Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	04-032-02 MS	Percent Recovery	04-032-02 MSD	Percent Recovery	RPD	Flags
Benzene	49.9	100	49.0	98	2	
Toluene	51.7	103	51.4	103	1	
Ethyl Benzene	51.0	102	50.4	101	1	
m,p-Xylene	50.5	98	49.8	97	1	
o-Xylene	50.0	100	49.5	99	1	
Surrogate Recovery: Fluorobenzene	93%		91%			

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

NWTPH-Dx

Date Extracted: 4-8-09
Date Analyzed: 4-8-09

Matrix: Soil
Units: mg/kg (ppm)

Client ID: B3-9
Lab ID: 04-032-03

Diesel Range: ND
PQL: 46
Identification: ---

Lube Oil Range: 2400
PQL: 93
Identification: Lube Oil

Surrogate Recovery
o-Terphenyl: 90%

Flags: Y,M1

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-8-09
Date Analyzed: 4-8-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0408S1

Diesel Range: **ND**
PQL: 25

Identification: ---

Lube Oil Range: **ND**
PQL: 50

Identification: ---

Surrogate Recovery
o-Terphenyl: 95%

Flags: Y

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Laboratory Reference: 0904-032
Project: 19897.68445

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-8-09
Date Analyzed: 4-8-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-056-01 04-056-01 DUP

Diesel Range: ND ND
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 87% 93%

Flags: Y Y

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-032-01
 Client ID: B2-7

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0016
Chloromethane	ND		0.0079
Vinyl Chloride	ND		0.0016
Bromomethane	ND		0.0016
Chloroethane	ND		0.0079
Trichlorofluoromethane	ND		0.0016
1,1-Dichloroethene	ND		0.0016
Iodomethane	ND		0.0079
Methylene Chloride	ND		0.0079
(trans) 1,2-Dichloroethene	ND		0.0016
1,1-Dichloroethane	ND		0.0016
2,2-Dichloropropane	ND		0.0016
(cis) 1,2-Dichloroethene	ND		0.0016
Bromochloromethane	ND		0.0016
Chloroform	ND		0.0016
1,1,1-Trichloroethane	ND		0.0016
Carbon Tetrachloride	ND		0.0016
1,1-Dichloropropene	ND		0.0016
1,2-Dichloroethane	ND		0.0016
Trichloroethene	ND		0.0016
1,2-Dichloropropane	ND		0.0016
Dibromomethane	ND		0.0016
Bromodichloromethane	ND		0.0016
2-Chloroethyl Vinyl Ether	ND		0.0079
(cis) 1,3-Dichloropropene	ND		0.0016
(trans) 1,3-Dichloropropene	ND		0.0016

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-032-01
 Client ID: B2-7

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0016
Tetrachloroethene	ND		0.0016
1,3-Dichloropropane	ND		0.0016
Dibromochloromethane	ND		0.0016
1,2-Dibromoethane	ND		0.0016
Chlorobenzene	ND		0.0016
1,1,1,2-Tetrachloroethane	ND		0.0016
Bromoform	ND		0.0016
Bromobenzene	ND		0.0016
1,1,2,2-Tetrachloroethane	ND		0.0016
1,2,3-Trichloropropane	ND		0.0016
2-Chlorotoluene	ND		0.0016
4-Chlorotoluene	ND		0.0016
1,3-Dichlorobenzene	ND		0.0016
1,4-Dichlorobenzene	ND		0.0016
1,2-Dichlorobenzene	ND		0.0016
1,2-Dibromo-3-chloropropane	ND		0.0079
1,2,4-Trichlorobenzene	ND		0.0016
Hexachlorobutadiene	ND		0.0079
1,2,3-Trichlorobenzene	ND		0.0016

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	70-118
Toluene-d8	80	70-121
4-Bromofluorobenzene	88	70-130

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-032-03
 Client ID: B3-9

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.19
Chloromethane	ND		0.94
Vinyl Chloride	ND		0.19
Bromomethane	ND		0.19
Chloroethane	ND		0.94
Trichlorofluoromethane	ND		0.19
1,1-Dichloroethene	ND		0.19
Iodomethane	ND		0.94
Methylene Chloride	ND		0.94
(trans) 1,2-Dichloroethene	ND		0.19
1,1-Dichloroethane	ND		0.19
2,2-Dichloropropane	ND		0.19
(cis) 1,2-Dichloroethene	ND		0.19
Bromochloromethane	ND		0.19
Chloroform	ND		0.19
1,1,1-Trichloroethane	ND		0.19
Carbon Tetrachloride	ND		0.19
1,1-Dichloropropene	ND		0.19
1,2-Dichloroethane	ND		0.19
Trichloroethene	ND		0.19
1,2-Dichloropropane	ND		0.19
Dibromomethane	ND		0.19
Bromodichloromethane	ND		0.19
2-Chloroethyl Vinyl Ether	ND		0.94
(cis) 1,3-Dichloropropene	ND		0.19
(trans) 1,3-Dichloropropene	ND		0.19

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-032-03
 Client ID: B3-9

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.19
Tetrachloroethene	ND		0.19
1,3-Dichloropropane	ND		0.19
Dibromochloromethane	ND		0.19
1,2-Dibromoethane	ND		0.19
Chlorobenzene	ND		0.19
1,1,1,2-Tetrachloroethane	ND		0.19
Bromoform	ND		0.19
Bromobenzene	ND		0.19
1,1,2,2-Tetrachloroethane	ND		0.19
1,2,3-Trichloropropane	ND		0.19
2-Chlorotoluene	ND		0.19
4-Chlorotoluene	ND		0.19
1,3-Dichlorobenzene	ND		0.19
1,4-Dichlorobenzene	ND		0.19
1,2-Dichlorobenzene	ND		0.19
1,2-Dibromo-3-chloropropane	ND		0.94
1,2,4-Trichlorobenzene	ND		0.19
Hexachlorobutadiene	ND		0.94
1,2,3-Trichlorobenzene	ND		0.19

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	93	70-118
Toluene-d8	75	70-121
4-Bromofluorobenzene	87	70-130

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-032-06
 Client ID: B15-10

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0017
Chloromethane	ND		0.0085
Vinyl Chloride	ND		0.0017
Bromomethane	ND		0.0017
Chloroethane	ND		0.0085
Trichlorofluoromethane	ND		0.0017
1,1-Dichloroethene	ND		0.0017
Iodomethane	ND		0.0085
Methylene Chloride	ND		0.0085
(trans) 1,2-Dichloroethene	ND		0.0017
1,1-Dichloroethane	ND		0.0017
2,2-Dichloropropane	ND		0.0017
(cis) 1,2-Dichloroethene	ND		0.0017
Bromochloromethane	ND		0.0017
Chloroform	ND		0.0017
1,1,1-Trichloroethane	ND		0.0017
Carbon Tetrachloride	ND		0.0017
1,1-Dichloropropene	ND		0.0017
1,2-Dichloroethane	ND		0.0017
Trichloroethene	ND		0.0017
1,2-Dichloropropane	ND		0.0017
Dibromomethane	ND		0.0017
Bromodichloromethane	ND		0.0017
2-Chloroethyl Vinyl Ether	ND		0.0085
(cis) 1,3-Dichloropropene	ND		0.0017
(trans) 1,3-Dichloropropene	ND		0.0017

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-032-06
 Client ID: B15-10

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0017
Tetrachloroethene	0.027		0.0017
1,3-Dichloropropane	ND		0.0017
Dibromochloromethane	ND		0.0017
1,2-Dibromoethane	ND		0.0017
Chlorobenzene	ND		0.0017
1,1,1,2-Tetrachloroethane	ND		0.0017
Bromoform	ND		0.0017
Bromobenzene	ND		0.0017
1,1,2,2-Tetrachloroethane	ND		0.0017
1,2,3-Trichloropropane	ND		0.0017
2-Chlorotoluene	ND		0.0017
4-Chlorotoluene	ND		0.0017
1,3-Dichlorobenzene	ND		0.0017
1,4-Dichlorobenzene	ND		0.0017
1,2-Dichlorobenzene	ND		0.0017
1,2-Dibromo-3-chloropropane	ND		0.0085
1,2,4-Trichlorobenzene	ND		0.0017
Hexachlorobutadiene	ND		0.0085
1,2,3-Trichlorobenzene	ND		0.0017

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	101	70-118
Toluene-d8	99	70-121
4-Bromofluorobenzene	75	70-130

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-032-08
 Client ID: B16-13

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0051
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0051
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0051
Methylene Chloride	ND		0.0051
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0051
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-032-08
 Client ID: B16-13

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	0.0041		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0051
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0051
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	70-118
Toluene-d8	99	70-121
4-Bromofluorobenzene	75	70-130

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-032-10
 Client ID: B19-7

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.11
Chloromethane	ND		0.56
Vinyl Chloride	ND		0.11
Bromomethane	ND		0.11
Chloroethane	ND		0.56
Trichlorofluoromethane	ND		0.11
1,1-Dichloroethene	ND		0.11
Iodomethane	ND		0.56
Methylene Chloride	0.84	H	0.56
(trans) 1,2-Dichloroethene	ND		0.11
1,1-Dichloroethane	ND		0.11
2,2-Dichloropropane	ND		0.11
(cis) 1,2-Dichloroethene	ND		0.11
Bromochloromethane	ND		0.11
Chloroform	ND		0.11
1,1,1-Trichloroethane	ND		0.11
Carbon Tetrachloride	ND		0.11
1,1-Dichloropropene	ND		0.11
1,2-Dichloroethane	ND		0.11
Trichloroethene	ND		0.11
1,2-Dichloropropane	ND		0.11
Dibromomethane	ND		0.11
Bromodichloromethane	ND		0.11
2-Chloroethyl Vinyl Ether	ND		0.56
(cis) 1,3-Dichloropropene	ND		0.11
(trans) 1,3-Dichloropropene	ND		0.11

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-032-10
 Client ID: B19-7

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.11
Tetrachloroethene	ND		0.11
1,3-Dichloropropane	ND		0.11
Dibromochloromethane	ND		0.11
1,2-Dibromoethane	ND		0.11
Chlorobenzene	ND		0.11
1,1,1,2-Tetrachloroethane	ND		0.11
Bromoform	ND		0.11
Bromobenzene	ND		0.11
1,1,2,2-Tetrachloroethane	ND		0.11
1,2,3-Trichloropropane	ND		0.11
2-Chlorotoluene	ND		0.11
4-Chlorotoluene	ND		0.11
1,3-Dichlorobenzene	ND		0.11
1,4-Dichlorobenzene	ND		0.11
1,2-Dichlorobenzene	ND		0.11
1,2-Dibromo-3-chloropropane	ND		0.56
1,2,4-Trichlorobenzene	ND		0.11
Hexachlorobutadiene	ND		0.56
1,2,3-Trichlorobenzene	ND		0.11

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	93	70-118
Toluene-d8	92	70-121
4-Bromofluorobenzene	80	70-130

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0406S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0406S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	70-118
Toluene-d8	108	70-121
4-Bromofluorobenzene	96	70-130

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 4-6-09
 Date Analyzed: 4-6-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0406S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0492	98	0.0436	87	70-130	
Benzene	0.0500	0.0467	93	0.0447	89	70-128	
Trichloroethene	0.0500	0.0511	102	0.0531	106	73-121	
Toluene	0.0500	0.0490	98	0.0436	87	74-122	
Chlorobenzene	0.0500	0.0490	98	0.0499	100	76-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	12	15	
Benzene	4	12	
Trichloroethene	4	17	
Toluene	12	14	
Chlorobenzene	2	13	

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-02
 Client ID: B2-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	5.0		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	11		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-032-02
 Client ID: B2-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	25		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	0.22		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	71-126
Toluene-d8	91	76-116
4-Bromofluorobenzene	86	70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-04
 Client ID: B3-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-032-04
 Client ID: B3-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	20		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	95		71-126
Toluene-d8	96		76-116
4-Bromofluorobenzene	88		70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-05
 Client ID: B14-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	0.33		0.20
Bromochloromethane	ND		0.20
Chloroform	0.72		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	0.54		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-032-05
 Client ID: B14-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	5.9		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	95	71-126
Toluene-d8	89	76-116
4-Bromofluorobenzene	85	70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-07
 Client ID: B15-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	1.4		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	1.8		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-032-07
 Client ID: B15-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	3.9		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	71-126
Toluene-d8	91	76-116
4-Bromofluorobenzene	89	70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-09
 Client ID: B16-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-032-09
 Client ID: B16-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.21		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	71-126
Toluene-d8	91	76-116
4-Bromofluorobenzene	89	70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-11
 Client ID: B19-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	4.2		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	5.9		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-032-11
 Client ID: B19-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	9.2		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	71-126
Toluene-d8	93	76-116
4-Bromofluorobenzene	89	70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-12
 Client ID: B13-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-032-12
 Client ID: B13-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	1.1		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	71-126
Toluene-d8	90	76-116
4-Bromofluorobenzene	88	70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-032-13
 Client ID: TB-1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897 68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-032-13
 Client ID: TB-1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	98		71-126
Toluene-d8	91		76-116
4-Bromofluorobenzene	87		70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0408W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0408W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	98	71-126
Toluene-d8	90	76-116
4-Bromofluorobenzene	87	70-123

Date of Report: April 14, 2009
 Samples Submitted: April 3, 2009
 Laboratory Reference: 0904-032
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-8-09

Date Analyzed: 4-8-09

Matrix: Water

Units: ug/L (ppb)

Lab ID: 04-032-02

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	10.0	7.99	80	7.78	78	70-130	
Benzene	ND	10.0	9.59	96	9.52	95	70-130	
Trichloroethene	11.3	10.0	20.7	94	19.3	80	77-114	
Toluene	ND	10.0	9.68	97	9.41	94	79-121	
Chlorobenzene	0.221	10.0	10.4	102	9.91	97	77-108	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	3	11	
Benzene	1	11	
Trichloroethene	7	10	
Toluene	3	11	
Chlorobenzene	5	10	

Date of Report: April 14, 2009
Samples Submitted: April 3, 2009
Lab Traveler: 0904-032
Project: 19897.68445

% MOISTURE

Date Analyzed: 4-6-09

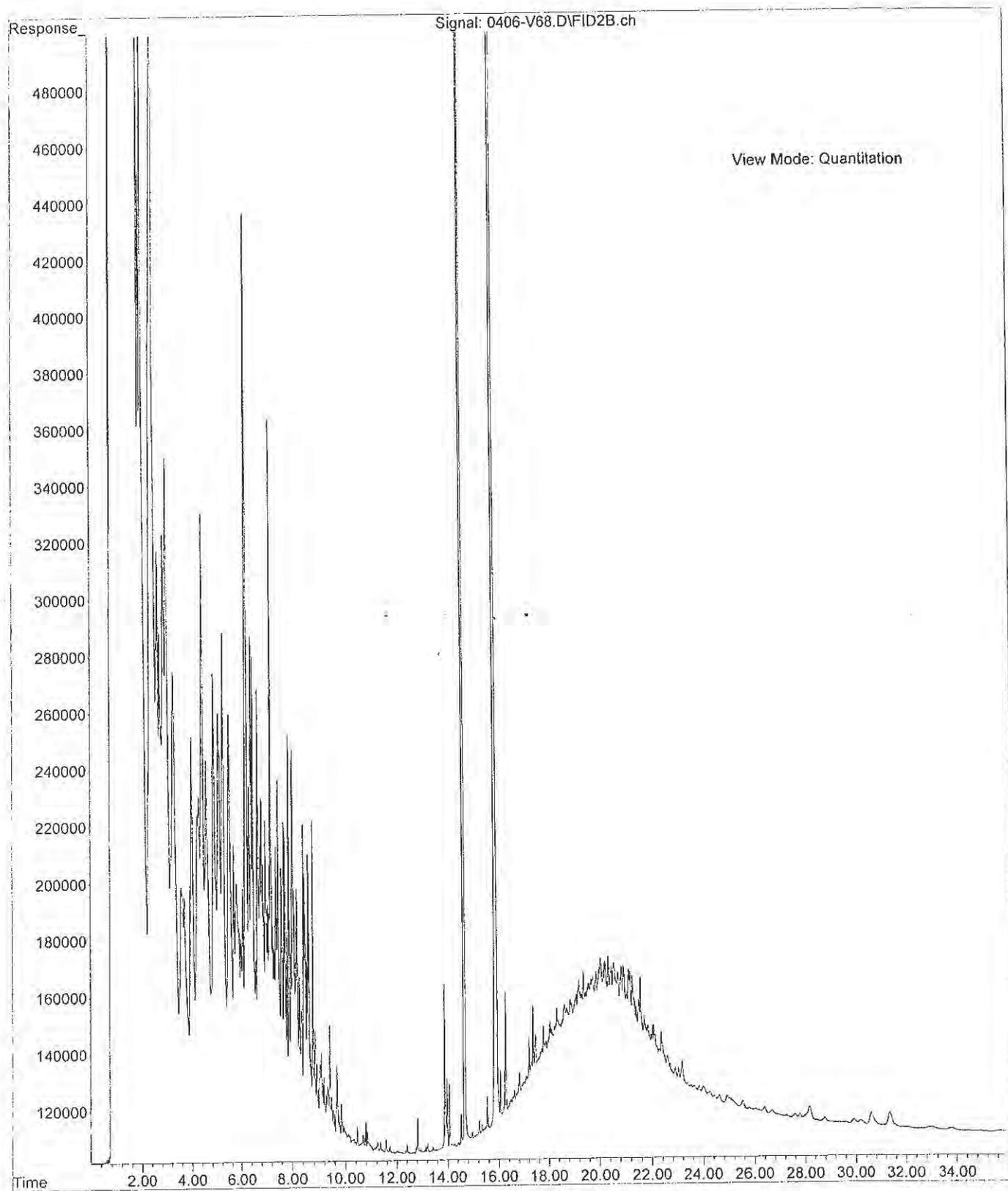
Client ID	Lab ID	% Moisture
B2-7	04-032-01	33
B3-9	04-032-03	46
B15-10	04-032-06	33
B16-13	04-032-08	16
B19-7	04-032-10	34



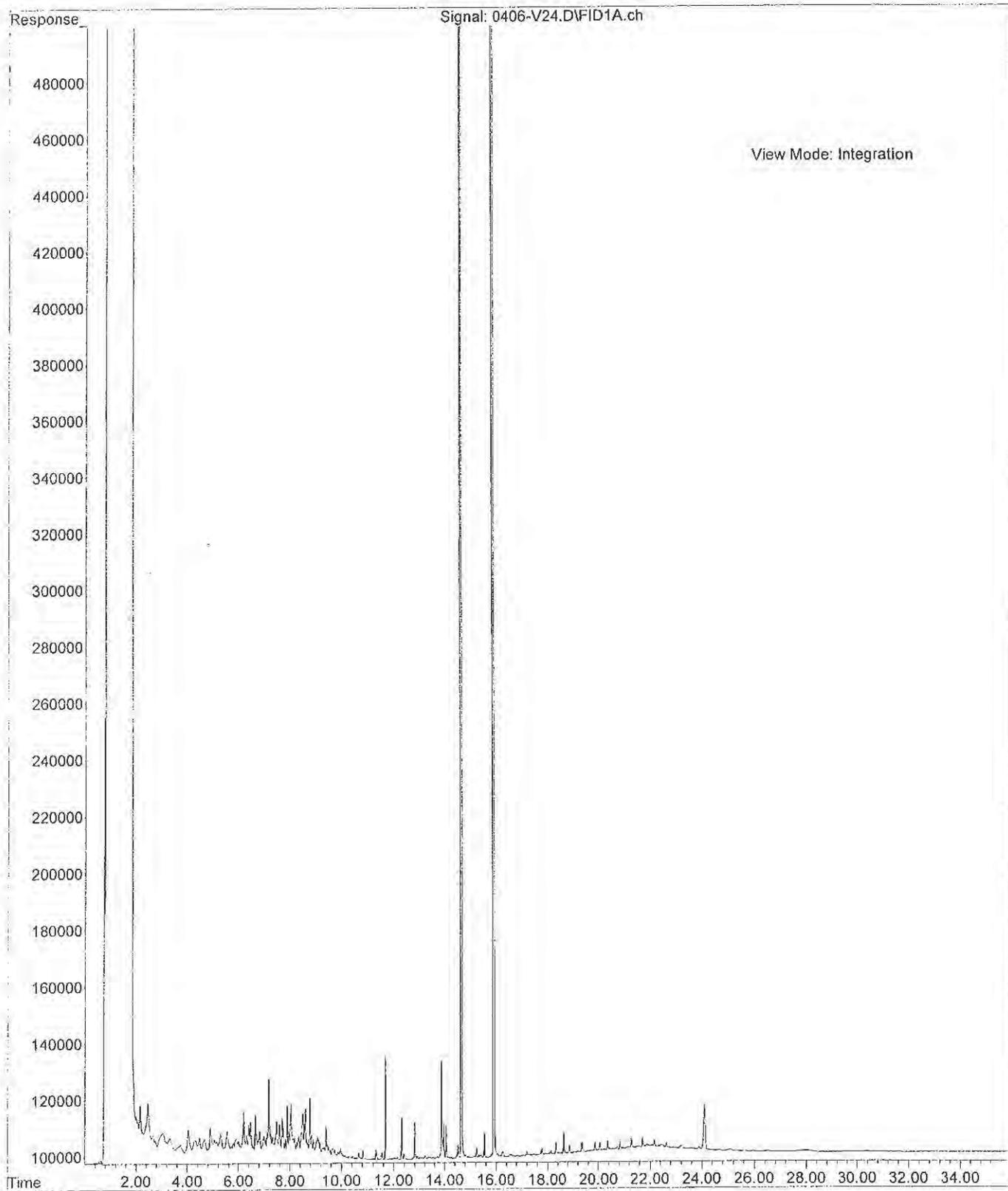
Data Qualifiers and Abbreviations

- 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.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

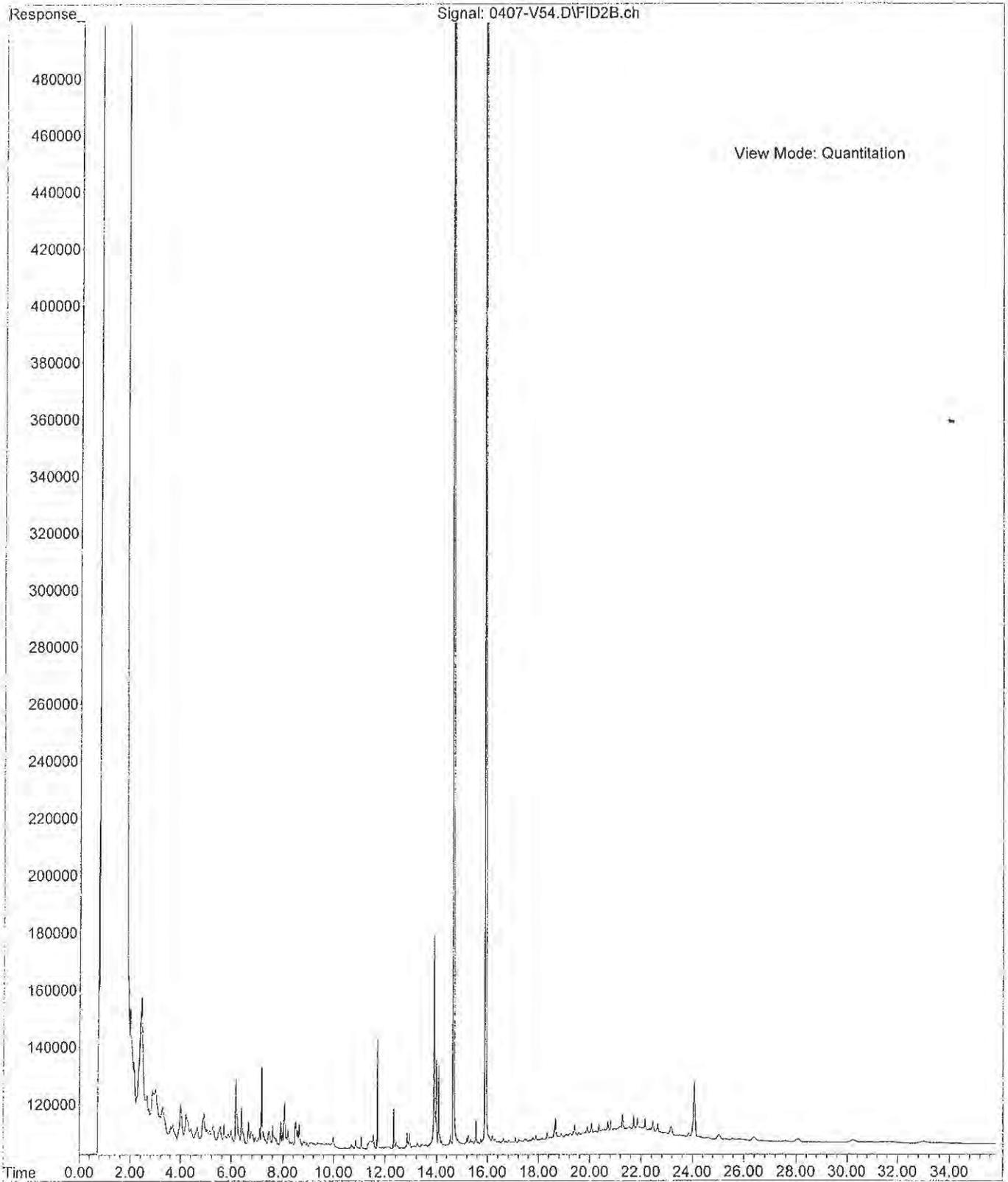
File : C:\msdchem\2\DATA\V090406.SEC\0406-V68.D
Operator : RB
Acquired : 6 Apr 09 10122 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-032-03 HC
Misc Info :
Vial Number: 68



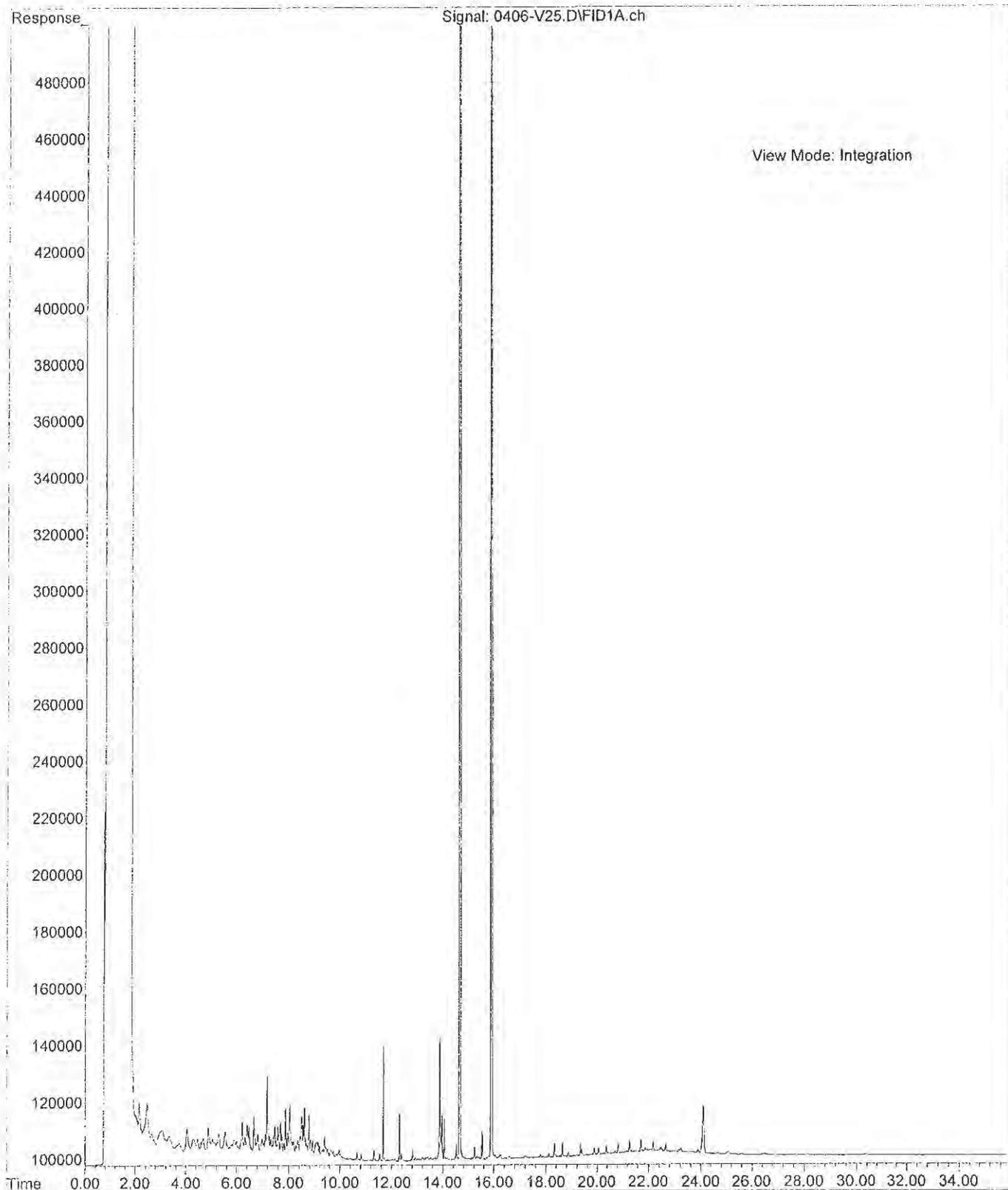
File :C:\msdchem\2\DATA\V090406\0406-V24.D
Operator : RB
Acquired : 7 Apr 09 2:21 a using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-032-02 HC
Misc Info :
Vial Number: 24



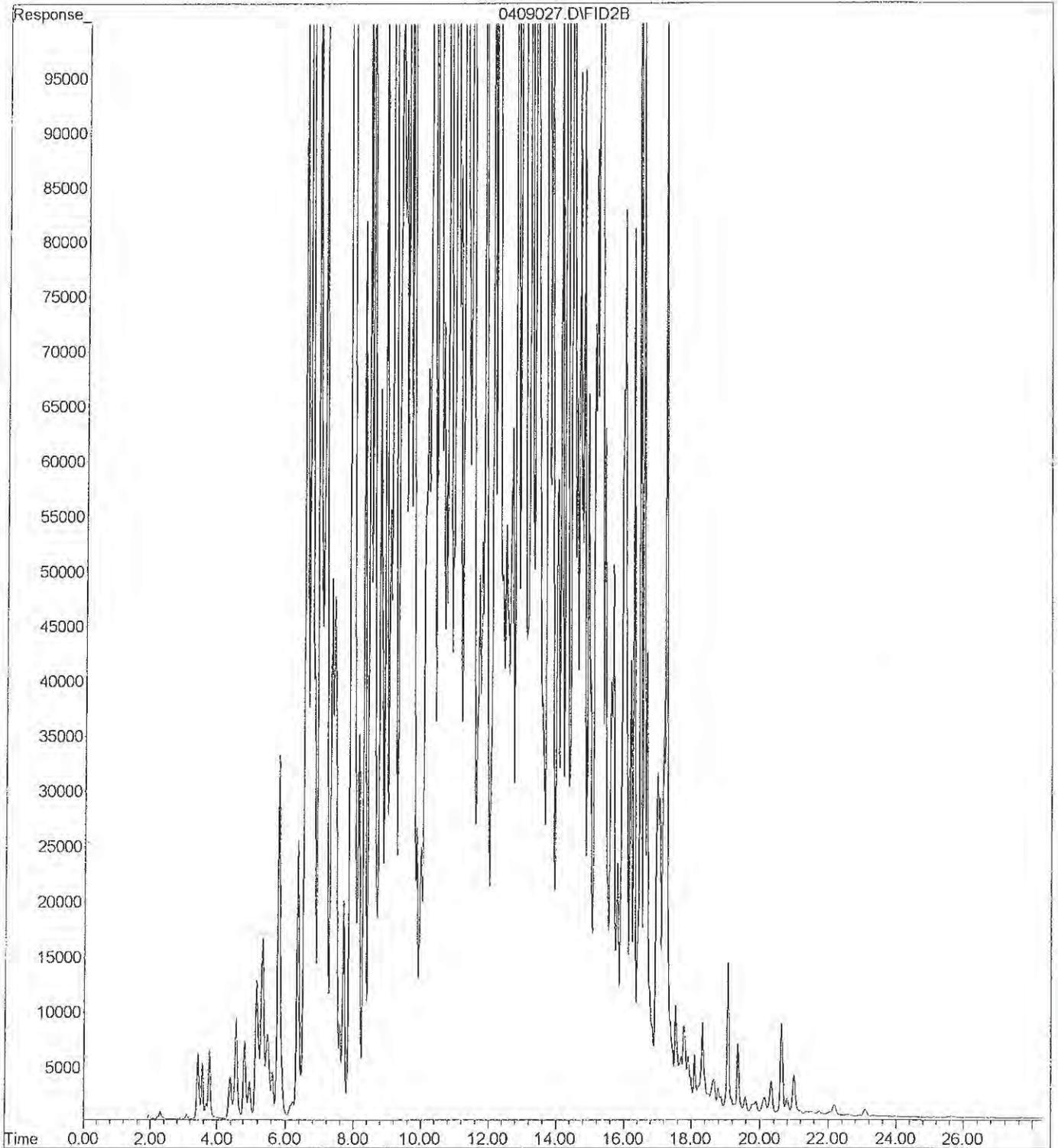
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Operator : RB
Acquired : 7 Apr 09 3123 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-032-04
Misc Info :
Vial Number: 54



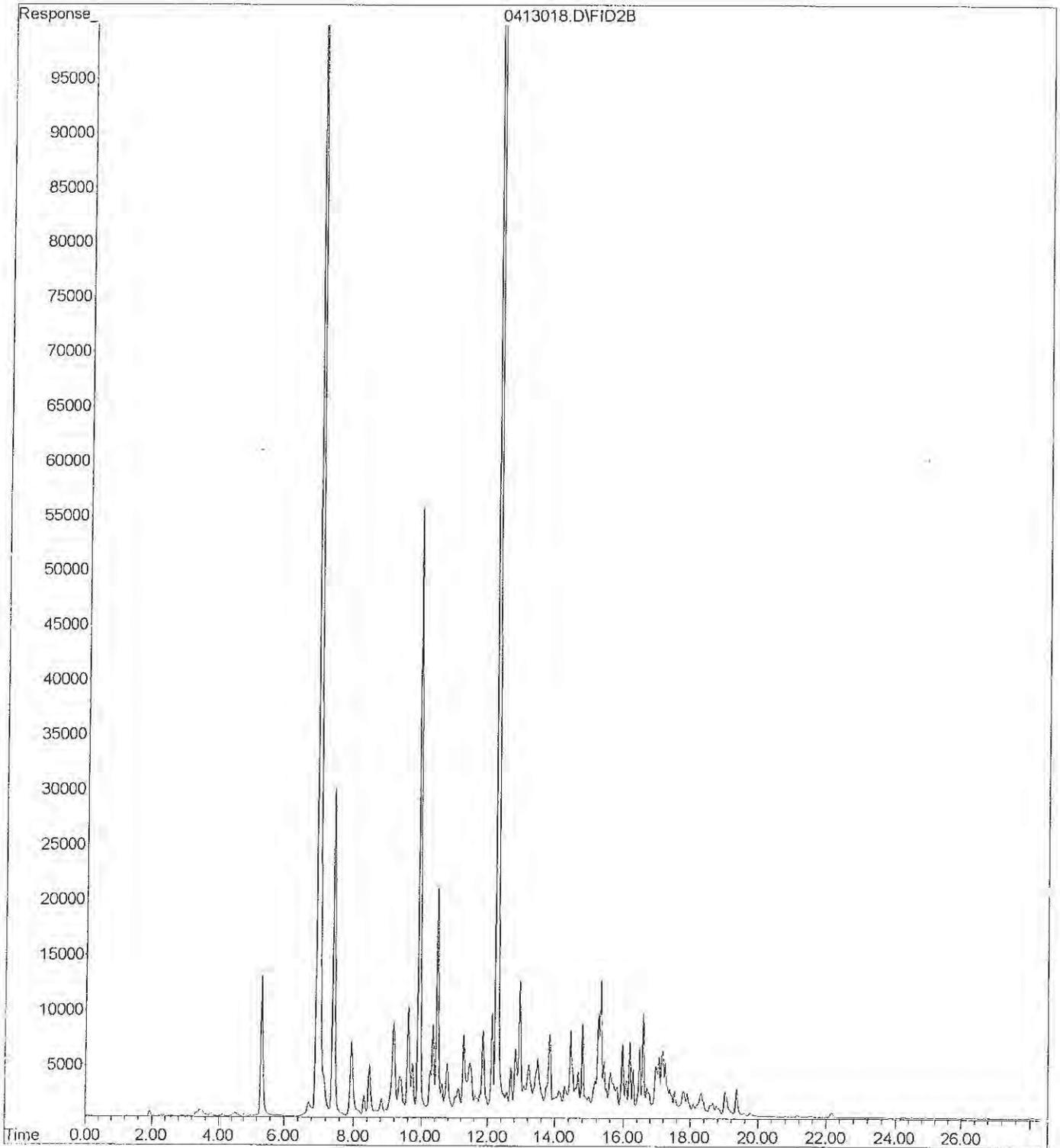
File :C:\msdchem\2\DATA\V090406\0406-V25.D
Operator : RB
Acquired : 7 Apr 09 3:01 a using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-032-11 HC
Misc Info :
Vial Number: 25



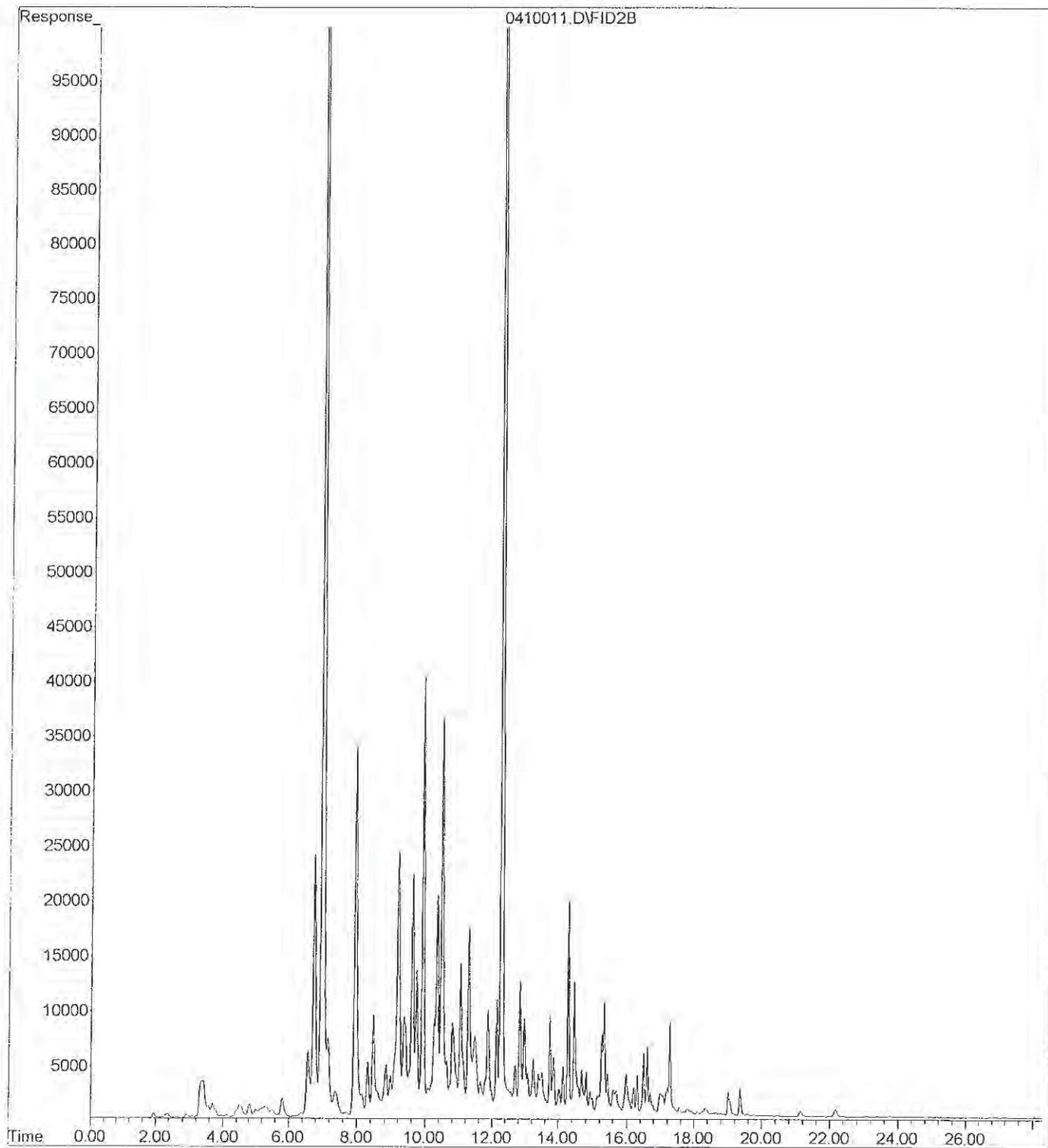
File : X:\BTEX\DARYL\DATA\D090409\0409027.D
Operator :
Acquired : 10 Apr 2009 3:38 using AcqMethod 090408B.M
Instrument : Daryl
Sample Name: 04-032-03s 1:50
Misc Info :
Vial Number: 27



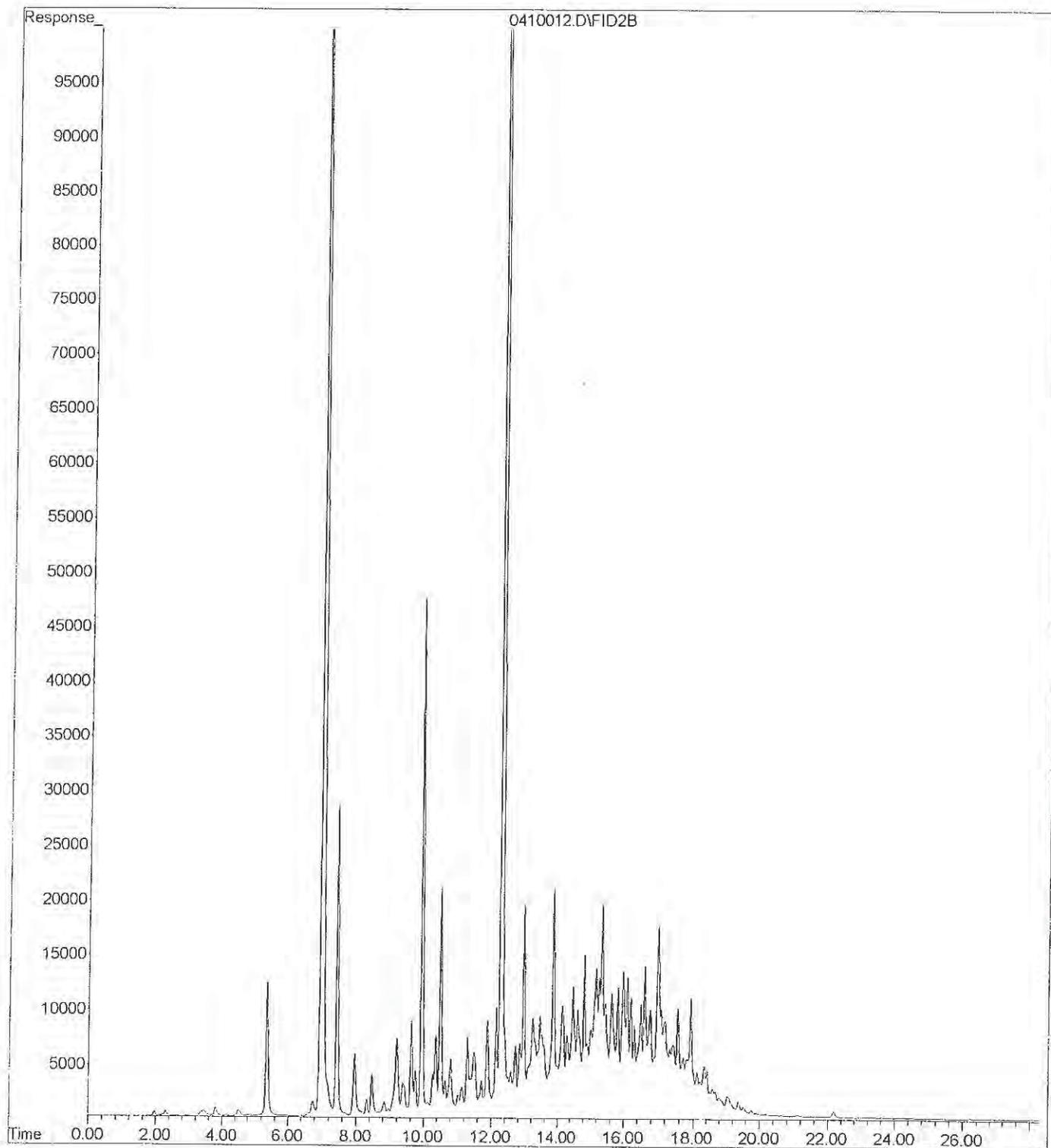
File : X:\BTEX\DARYL\DATA\D090413\0413018.D
Operator :
Acquired : 13 Apr 2009 21:08 using AcqMethod 090408B.M
Instrument : Daryl
Sample Name: 04-032-02f RR
Misc Info :
Vial Number: 18



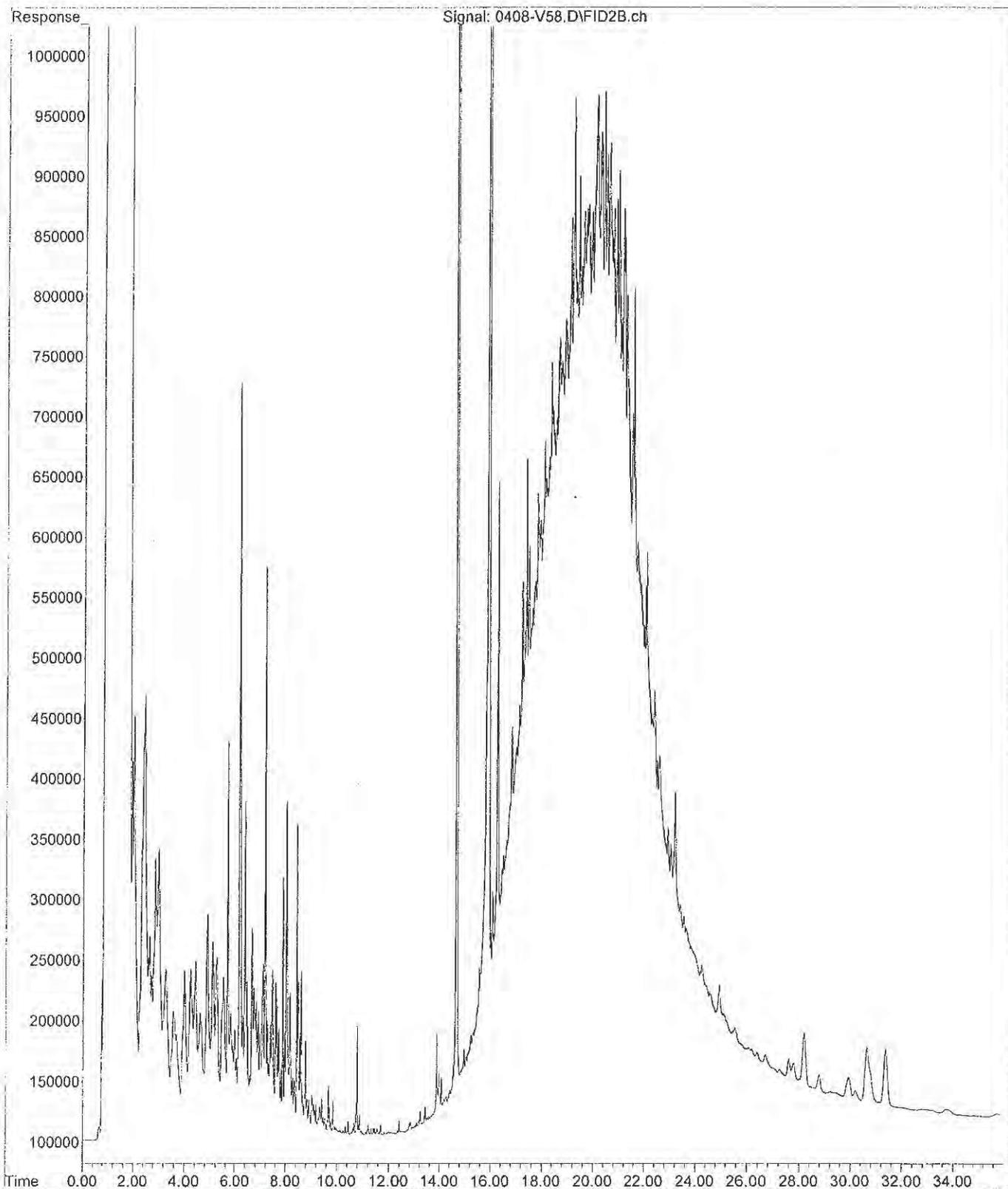
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Operator :
Acquired : 10 Apr 2009 19:12 using AcqMethod 090408B.M
Instrument : Daryl
Sample Name: 04-032-04c
Misc Info :
Vial Number: 11



File : X:\BTEX\DARYL\DATA\D090410\0410012.D
Operator :
Acquired : 10 Apr 2009 19:47 using AcqMethod 090408B.M
Instrument : Daryl
Sample Name: 04-032-11c
Misc Info :
Vial Number: 12



File :C:\msdchem\2\DATA\V090408.SEC\0408-V58.D
Operator : RB
Acquired : 8 Apr 09 4120 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-032-03
Misc Info :
Vial Number: 58



Date of Report: April 10, 2009
Samples Submitted: April 3, 2009
Lab Traveler: 0904-018
Project: 19897.68445

% MOISTURE

Date Analyzed: 4-3-09

Client ID	Lab ID	% Moisture
B4-6	04-018-01	18
B5-8	04-018-03	19
B6-8	04-018-05	19
B7-9	04-018-07	18
B13-6	04-018-09	18
B17-11	04-018-11	12



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.
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- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

April 15, 2009

Pam Morrill
CDM
P.O. Box 3885
Bellevue, WA 98009

Re: Analytical Data for Project 19897.68445
Laboratory Reference No. 0904-049

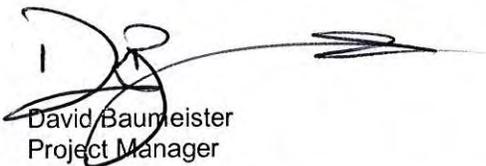
Dear Pam:

Enclosed are the analytical results and associated quality control data for samples submitted on April 7, 2009.

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

Received
APR 17 2009

Date of Report: April 15, 2009
Samples Submitted: April 7, 2009
Laboratory Reference: 0904-049
Project: 19897.68445

Case Narrative

Samples were collected on April 6 and 7, 2009, and received by the laboratory on April 7, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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.

Halogenated Volatiles (soil) EPA 8260B 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.

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.

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

NWTPH-HCID

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	B1-W	B12-W	B18-W
Lab ID:	04-049-02	04-049-10	04-049-12
			Gasoline Range Hydrocarbons
Gasoline:	ND	ND	
PQL:	0.11	0.10	0.11
Diesel Fuel:	ND	ND	ND
PQL:	0.27	0.26	0.26
Lube Oil:	ND	ND	ND
PQL:	0.43	0.41	0.42
Surrogate Recovery:			
o-Terphenyl	83%	90%	90%
Flags:	Y	Y	Y

Date of Report: April 15, 2009
Samples Submitted: April 7, 2009
Laboratory Reference: 0904-049
Project: 19897.68445

**NWTPH-HCID
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-9-09
Date Analyzed: 4-9-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0409W1

Gasoline: **ND**
PQL: 0.10

Diesel Fuel: **ND**
PQL: 0.25

Lube Oil: **ND**
PQL: 0.40

Surrogate Recovery:
o-Terphenyl 91%

Flags Y

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-049-01
 Client ID: B1-6

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00099
Chloromethane	ND		0.0049
Vinyl Chloride	ND		0.00099
Bromomethane	ND		0.00099
Chloroethane	ND		0.0049
Trichlorofluoromethane	ND		0.00099
1,1-Dichloroethene	ND		0.00099
Iodomethane	ND		0.0049
Methylene Chloride	ND		0.0049
(trans) 1,2-dichloroethene	ND		0.00099
1,1-Dichloroethane	ND		0.00099
2,2-Dichloropropane	ND		0.00099
(cis) 1,2-Dichloroethene	ND		0.00099
Bromochloromethane	ND		0.00099
Chloroform	ND		0.00099
1,1,1-Trichloroethane	ND		0.00099
Carbon Tetrachloride	ND		0.00099
1,1-Dichloropropene	ND		0.00099
1,2-Dichloroethane	ND		0.00099
Trichloroethene	ND		0.00099
1,2-Dichloropropane	ND		0.00099
Dibromomethane	ND		0.00099
Bromodichloromethane	ND		0.00099
2-Chloroethyl Vinyl Ether	ND		0.0049
(cis) 1,3-Dichloropropene	ND		0.00099
(trans) 1,3-Dichloropropene	ND		0.00099

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-01
 Client ID: B1-6

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00099
Tetrachloroethene	0.0054		0.00099
1,3-Dichloropropane	ND		0.00099
Dibromochloromethane	ND		0.00099
1,2-Dibromoethane	ND		0.00099
Chlorobenzene	ND		0.00099
1,1,1,2-Tetrachloroethane	ND		0.00099
Bromoform	ND		0.00099
Bromobenzene	ND		0.00099
1,1,2,2-Tetrachloroethane	ND		0.00099
1,2,3-Trichloropropane	ND		0.00099
2-Chlorotoluene	ND		0.00099
4-Chlorotoluene	ND		0.00099
1,3-Dichlorobenzene	ND		0.00099
1,4-Dichlorobenzene	ND		0.00099
1,2-Dichlorobenzene	ND		0.00099
1,2-Dibromo-3-chloropropane	ND		0.0049
1,2,4-Trichlorobenzene	ND		0.00099
Hexachlorobutadiene	ND		0.0049
1,2,3-Trichlorobenzene	ND		0.00099
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	100		70-118
Toluene-d8	104		70-121
4-Bromofluorobenzene	99		70-130

Date of Report: April 15, 2009
Samples Submitted: April 7, 2009
Laboratory Reference: 0904-049
Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
Page 1 of 2

Date Extracted: 4-9-09
Date Analyzed: 4-9-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-049-03
Client ID: B8-7

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-03
 Client ID: B8-7

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	0.0017		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	100	70-118
Toluene-d8	110	70-121
4-Bromofluorobenzene	111	70-130

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-049-05
 Client ID: B10-6

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00097
Chloromethane	ND		0.0048
Vinyl Chloride	ND		0.00097
Bromomethane	ND		0.00097
Chloroethane	ND		0.0048
Trichlorofluoromethane	ND		0.00097
1,1-Dichloroethene	ND		0.00097
Iodomethane	ND		0.0048
Methylene Chloride	ND		0.0048
(trans) 1,2-dichloroethene	ND		0.00097
1,1-Dichloroethane	ND		0.00097
2,2-Dichloropropane	ND		0.00097
(cis) 1,2-Dichloroethene	ND		0.00097
Bromochloromethane	ND		0.00097
Chloroform	ND		0.00097
1,1,1-Trichloroethane	ND		0.00097
Carbon Tetrachloride	ND		0.00097
1,1-Dichloropropene	ND		0.00097
1,2-Dichloroethane	ND		0.00097
Trichloroethene	ND		0.00097
1,2-Dichloropropane	ND		0.00097
Dibromomethane	ND		0.00097
Bromodichloromethane	ND		0.00097
2-Chloroethyl Vinyl Ether	ND		0.0048
(cis) 1,3-Dichloropropene	ND		0.00097
(trans) 1,3-Dichloropropene	ND		0.00097

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-049-05
 Client ID: B10-6

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00097
Tetrachloroethene	0.016		0.00097
1,3-Dichloropropane	ND		0.00097
Dibromochloromethane	ND		0.00097
1,2-Dibromoethane	ND		0.00097
Chlorobenzene	ND		0.00097
1,1,1,2-Tetrachloroethane	ND		0.00097
Bromoform	ND		0.00097
Bromobenzene	ND		0.00097
1,1,2,2-Tetrachloroethane	ND		0.00097
1,2,3-Trichloropropane	ND		0.00097
2-Chlorotoluene	ND		0.00097
4-Chlorotoluene	ND		0.00097
1,3-Dichlorobenzene	ND		0.00097
1,4-Dichlorobenzene	ND		0.00097
1,2-Dichlorobenzene	ND		0.00097
1,2-Dibromo-3-chloropropane	ND		0.0048
1,2,4-Trichlorobenzene	ND		0.00097
Hexachlorobutadiene	ND		0.0048
1,2,3-Trichlorobenzene	ND		0.00097

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	101	70-118
Toluene-d8	110	70-121
4-Bromofluorobenzene	108	70-130

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-049-07
 Client ID: B11-6

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0054
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0054
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0054
Methylene Chloride	ND		0.0054
(trans) 1,2-dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0054
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-07
 Client ID: B11-6

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0030		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0054
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0054
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	88	70-118
Toluene-d8	101	70-121
4-Bromofluorobenzene	106	70-130

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-049-09
 Client ID: B12-5

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00090
Chloromethane	ND		0.0045
Vinyl Chloride	ND		0.00090
Bromomethane	ND		0.00090
Chloroethane	ND		0.0045
Trichlorofluoromethane	ND		0.00090
1,1-Dichloroethene	ND		0.00090
Iodomethane	ND		0.0045
Methylene Chloride	ND		0.0045
(trans) 1,2-dichloroethene	ND		0.00090
1,1-Dichloroethane	ND		0.00090
2,2-Dichloropropane	ND		0.00090
(cis) 1,2-Dichloroethene	0.0013		0.00090
Bromochloromethane	ND		0.00090
Chloroform	ND		0.00090
1,1,1-Trichloroethane	ND		0.00090
Carbon Tetrachloride	ND		0.00090
1,1-Dichloropropene	ND		0.00090
1,2-Dichloroethane	ND		0.00090
Trichloroethene	ND		0.00090
1,2-Dichloropropane	ND		0.00090
Dibromomethane	ND		0.00090
Bromodichloromethane	ND		0.00090
2-Chloroethyl Vinyl Ether	ND		0.0045
(cis) 1,3-Dichloropropene	ND		0.00090
(trans) 1,3-Dichloropropene	ND		0.00090

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-049-09
 Client ID: B12-5

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00090
Tetrachloroethene	0.0011		0.00090
1,3-Dichloropropane	ND		0.00090
Dibromochloromethane	ND		0.00090
1,2-Dibromoethane	ND		0.00090
Chlorobenzene	ND		0.00090
1,1,1,2-Tetrachloroethane	ND		0.00090
Bromoform	ND		0.00090
Bromobenzene	ND		0.00090
1,1,2,2-Tetrachloroethane	ND		0.00090
1,2,3-Trichloropropane	ND		0.00090
2-Chlorotoluene	ND		0.00090
4-Chlorotoluene	ND		0.00090
1,3-Dichlorobenzene	ND		0.00090
1,4-Dichlorobenzene	ND		0.00090
1,2-Dichlorobenzene	ND		0.00090
1,2-Dibromo-3-chloropropane	ND		0.0045
1,2,4-Trichlorobenzene	ND		0.00090
Hexachlorobutadiene	ND		0.0045
1,2,3-Trichlorobenzene	ND		0.00090

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	70-118
Toluene-d8	103	70-121
4-Bromofluorobenzene	98	70-130

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-9-09
 Date Analyzed: 4-10-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-049-11
 Client ID: B18-7

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0013
Chloromethane	ND		0.0065
Vinyl Chloride	ND		0.0013
Bromomethane	ND		0.0013
Chloroethane	ND		0.0065
Trichlorofluoromethane	ND		0.0013
1,1-Dichloroethene	ND		0.0013
Iodomethane	ND		0.0065
Methylene Chloride	ND		0.0065
(trans) 1,2-dichloroethene	ND		0.0013
1,1-Dichloroethane	ND		0.0013
2,2-Dichloropropane	ND		0.0013
(cis) 1,2-Dichloroethene	ND		0.0013
Bromochloromethane	ND		0.0013
Chloroform	ND		0.0013
1,1,1-Trichloroethane	ND		0.0013
Carbon Tetrachloride	ND		0.0013
1,1-Dichloropropene	ND		0.0013
1,2-Dichloroethane	ND		0.0013
Trichloroethene	ND		0.0013
1,2-Dichloropropane	ND		0.0013
Dibromomethane	ND		0.0013
Bromodichloromethane	ND		0.0013
2-Chloroethyl Vinyl Ether	ND		0.0065
(cis) 1,3-Dichloropropene	ND		0.0013
(trans) 1,3-Dichloropropene	ND		0.0013

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-11
 Client ID: B18-7

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0013
Tetrachloroethene	ND		0.0013
1,3-Dichloropropane	ND		0.0013
Dibromochloromethane	ND		0.0013
1,2-Dibromoethane	ND		0.0013
Chlorobenzene	ND		0.0013
1,1,1,2-Tetrachloroethane	ND		0.0013
Bromoform	ND		0.0013
Bromobenzene	ND		0.0013
1,1,2,2-Tetrachloroethane	ND		0.0013
1,2,3-Trichloropropane	ND		0.0013
2-Chlorotoluene	ND		0.0013
4-Chlorotoluene	ND		0.0013
1,3-Dichlorobenzene	ND		0.0013
1,4-Dichlorobenzene	ND		0.0013
1,2-Dichlorobenzene	ND		0.0013
1,2-Dibromo-3-chloropropane	ND		0.0065
1,2,4-Trichlorobenzene	ND		0.0013
Hexachlorobutadiene	ND		0.0065
1,2,3-Trichlorobenzene	ND		0.0013

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	70-118
Toluene-d8	108	70-121
4-Bromofluorobenzene	104	70-130

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0409S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0409S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	83	70-118
Toluene-d8	95	70-121
4-Bromofluorobenzene	100	70-130

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09
 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0409S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0433	87	0.0435	87	70-130	
Benzene	0.0500	0.0481	96	0.0497	99	70-128	
Trichloroethene	0.0500	0.0503	101	0.0525	105	73-121	
Toluene	0.0500	0.0512	102	0.0525	105	74-122	
Chlorobenzene	0.0500	0.0575	115	0.0567	113	76-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	0	15	
Benzene	3	12	
Trichloroethene	4	17	
Toluene	3	14	
Chlorobenzene	1	13	

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-049-02
 Client ID: B1-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	1.6		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	1.4		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-02
 Client ID: B1-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	20		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	88	70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-049-04
 Client ID: B8-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	0.22		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-04
 Client ID: B8-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.37		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	85	70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-049-06
 Client ID: B10-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.40
Chloromethane	ND		2.0
Vinyl Chloride	ND		0.40
Bromomethane	ND		0.40
Chloroethane	ND		2.0
Trichlorofluoromethane	ND		0.40
1,1-Dichloroethene	ND		0.40
Iodomethane	ND		2.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.40
1,1-Dichloroethane	ND		0.40
2,2-Dichloropropane	ND		0.40
(cis) 1,2-Dichloroethene	ND		0.40
Bromochloromethane	ND		0.40
Chloroform	1.6		0.40
1,1,1-Trichloroethane	ND		0.40
Carbon Tetrachloride	ND		0.40
1,1-Dichloropropene	ND		0.40
1,2-Dichloroethane	ND		0.40
Trichloroethene	ND		0.40
1,2-Dichloropropane	ND		0.40
Dibromomethane	ND		0.40
Bromodichloromethane	ND		0.40
2-Chloroethyl Vinyl Ether	ND		2.0
(cis) 1,3-Dichloropropene	ND		0.40
(trans) 1,3-Dichloropropene	ND		0.40

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-06
 Client ID: B10-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.40
Tetrachloroethene	54		0.40
1,3-Dichloropropane	ND		0.40
Dibromochloromethane	ND		0.40
1,2-Dibromoethane	ND		0.40
Chlorobenzene	ND		0.40
1,1,1,2-Tetrachloroethane	ND		0.40
Bromoform	ND		2.0
Bromobenzene	ND		0.40
1,1,2,2-Tetrachloroethane	ND		0.40
1,2,3-Trichloropropane	ND		0.40
2-Chlorotoluene	ND		0.40
4-Chlorotoluene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,2-Dibromo-3-chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
1,2,3-Trichlorobenzene	ND		0.40

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	86	70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8&9-09
 Date Analyzed: 4-8&9-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-049-08
 Client ID: B11-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	1.6		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-08
 Client ID: B11-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	49		0.40
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	93	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	86	70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-9-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-049-10
 Client ID: B12-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.40
Chloromethane	ND		2.0
Vinyl Chloride	ND		0.40
Bromomethane	ND		0.40
Chloroethane	ND		2.0
Trichlorofluoromethane	ND		0.40
1,1-Dichloroethene	ND		0.40
Iodomethane	ND		2.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.40
1,1-Dichloroethane	ND		0.40
2,2-Dichloropropane	ND		0.40
(cis) 1,2-Dichloroethene	ND		0.40
Bromochloromethane	ND		0.40
Chloroform	1.5		0.40
1,1,1-Trichloroethane	ND		0.40
Carbon Tetrachloride	ND		0.40
1,1-Dichloropropene	ND		0.40
1,2-Dichloroethane	ND		0.40
Trichloroethene	ND		0.40
1,2-Dichloropropane	ND		0.40
Dibromomethane	ND		0.40
Bromodichloromethane	ND		0.40
2-Chloroethyl Vinyl Ether	ND		2.0
(cis) 1,3-Dichloropropene	ND		0.40
(trans) 1,3-Dichloropropene	ND		0.40

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-049-10
 Client ID: B12-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.40
Tetrachloroethene	57		0.40
1,3-Dichloropropane	ND		0.40
Dibromochloromethane	ND		0.40
1,2-Dibromoethane	ND		0.40
Chlorobenzene	ND		0.40
1,1,1,2-Tetrachloroethane	ND		0.40
Bromoform	ND		2.0
Bromobenzene	ND		0.40
1,1,2,2-Tetrachloroethane	ND		0.40
1,2,3-Trichloropropane	ND		0.40
2-Chlorotoluene	ND		0.40
4-Chlorotoluene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,2-Dibromo-3-chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
1,2,3-Trichlorobenzene	ND		0.40

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	92	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	86	70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-9-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-049-12
 Client ID: B18-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.40
Chloromethane	ND		2.0
Vinyl Chloride	2.7		0.40
Bromomethane	ND		0.40
Chloroethane	ND		2.0
Trichlorofluoromethane	ND		0.40
1,1-Dichloroethene	ND		0.40
Iodomethane	ND		2.0
Methylene Chloride	ND		2.0
(trans) 1,2-Dichloroethene	ND		0.40
1,1-Dichloroethane	ND		0.40
2,2-Dichloropropane	ND		0.40
(cis) 1,2-Dichloroethene	6.0		0.40
Bromochloromethane	ND		0.40
Chloroform	ND		0.40
1,1,1-Trichloroethane	ND		0.40
Carbon Tetrachloride	ND		0.40
1,1-Dichloropropene	ND		0.40
1,2-Dichloroethane	ND		0.40
Trichloroethene	9.9		0.40
1,2-Dichloropropane	ND		0.40
Dibromomethane	ND		0.40
Bromodichloromethane	ND		0.40
2-Chloroethyl Vinyl Ether	ND		2.0
(cis) 1,3-Dichloropropene	ND		0.40
(trans) 1,3-Dichloropropene	ND		0.40

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-049-12
 Client ID: B18-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.40
Tetrachloroethene	57		0.40
1,3-Dichloropropane	ND		0.40
Dibromochloromethane	ND		0.40
1,2-Dibromoethane	ND		0.40
Chlorobenzene	0.55		0.40
1,1,1,2-Tetrachloroethane	ND		0.40
Bromoform	ND		2.0
Bromobenzene	ND		0.40
1,1,2,2-Tetrachloroethane	ND		0.40
1,2,3-Trichloropropane	ND		0.40
2-Chlorotoluene	ND		0.40
4-Chlorotoluene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,2-Dibromo-3-chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
1,2,3-Trichlorobenzene	ND		0.40
	Percent		Control
Surrogate	Recovery		Limits
Dibromofluoromethane	90		71-126
Toluene-d8	89		76-116
4-Bromofluorobenzene	87		70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-049-13
 Client ID: Trip Blank

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 04-049-13
 Client ID: Trip Blank

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	93		71-126
Toluene-d8	88		76-116
4-Bromofluorobenzene	80		70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0408W2

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0408W2

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	78	70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-9-09
 Date Analyzed: 4-9-09

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: MB0409W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0409W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	95	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	84	70-123

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-8-09
 Date Analyzed: 4-8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-049-02

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	10.0	7.62	76	7.50	75	70-130	
Benzene	ND	10.0	9.49	95	9.69	97	70-130	
Trichloroethene	1.41	10.0	10.7	93	11.0	96	77-114	
Toluene	ND	10.0	9.38	94	9.63	96	79-121	
Chlorobenzene	ND	10.0	8.96	90	9.03	90	77-108	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	2	11	
Benzene	2	11	
Trichloroethene	2	10	
Toluene	3	11	
Chlorobenzene	1	10	

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 4-9-09

Date Analyzed: 4-9-09

Matrix: Water

Units: ug/L (ppb)

Lab ID: SB0409W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	8.37	84	8.90	89	70-130	
Benzene	10.0	10.6	106	10.4	104	70-130	
Trichloroethene	10.0	10.3	103	10.2	102	70-116	
Toluene	10.0	10.6	106	10.5	105	76-119	
Chlorobenzene	10.0	9.89	99	9.83	98	77-112	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	6	20	
Benzene	2	16	
Trichloroethene	2	16	
Toluene	1	15	
Chlorobenzene	1	15	

Date of Report: April 15, 2009
Samples Submitted: April 7, 2009
Laboratory Reference: 0904-049
Project: 19897.68445

NWTPH-Gx/BTEX

Date Extracted: 4-13-09
Date Analyzed: 4-13-09

Matrix: Water
Units: ug/L (ppb)

Client ID: **B18-W**
Lab ID: 04-049-12

	Result	Flags	PQL
Benzene	13		4.0
Toluene	ND		4.0
Ethyl Benzene	ND		4.0
m,p-Xylene	ND		4.0
o-Xylene	ND		4.0
TPH-Gas	ND		400
Surrogate Recovery: Fluorobenzene	84%		

Date of Report: April 15, 2009
Samples Submitted: April 7, 2009
Laboratory Reference: 0904-049
Project: 19897.68445

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-13-09
Date Analyzed: 4-13-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0413W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100

Surrogate Recovery:
Fluorobenzene 92%

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 4-13-09
 Date Analyzed: 4-13-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID:	04-049-12 Original	04-049-12 Duplicate	RPD	Flags
Benzene	12.7	13.7	8	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery: Fluorobenzene	84%	87%		

Date of Report: April 15, 2009
 Samples Submitted: April 7, 2009
 Laboratory Reference: 0904-049
 Project: 19897.68445

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-13-09
 Date Analyzed: 4-13-09

Matrix: Water
 Units: ug/L (ppb)

Spike Level: 200 ppb

Lab ID:	04-049-12 MS	Percent Recovery	04-049-12 MSD	Percent Recovery	RPD	Flags
Benzene	190	89	201	94	5	
Toluene	179	89	189	95	6	
Ethyl Benzene	177	88	187	94	6	
m,p-Xylene	174	87	184	92	6	
o-Xylene	171	85	181	90	6	
Surrogate Recovery: Fluorobenzene	85%		86%			

Date of Report: April 15, 2009
Samples Submitted: April 7, 2009
Lab Traveler: 0904-049
Project: 19897.68445

% MOISTURE

Date Analyzed: 4-9-09

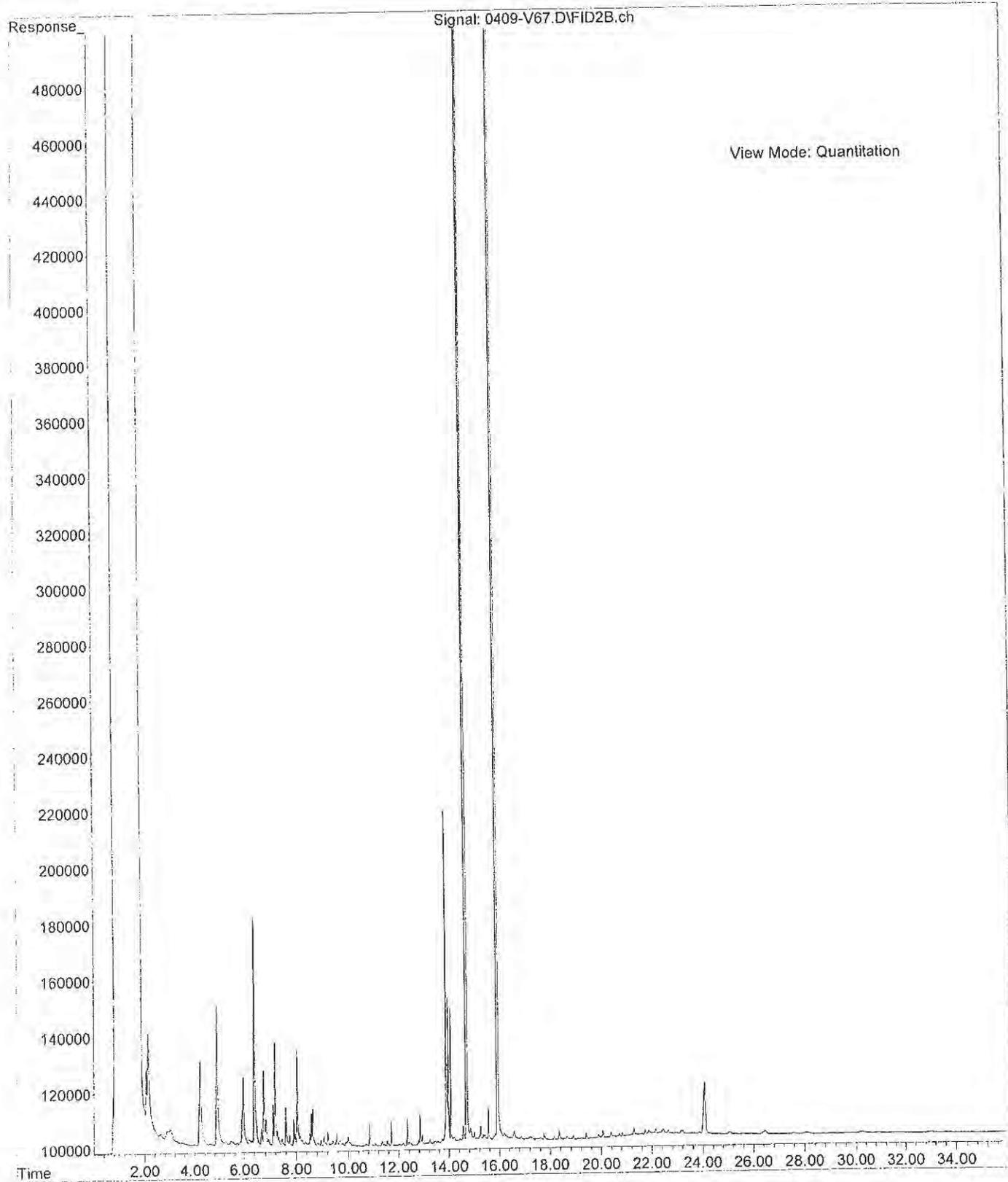
Client ID	Lab ID	% Moisture
B1-6	04-049-01	10
B8-7	04-049-03	15
B10-6	04-049-05	19
B11-6	04-049-07	21
B12-5	04-049-09	11
B18-7	04-049-11	27



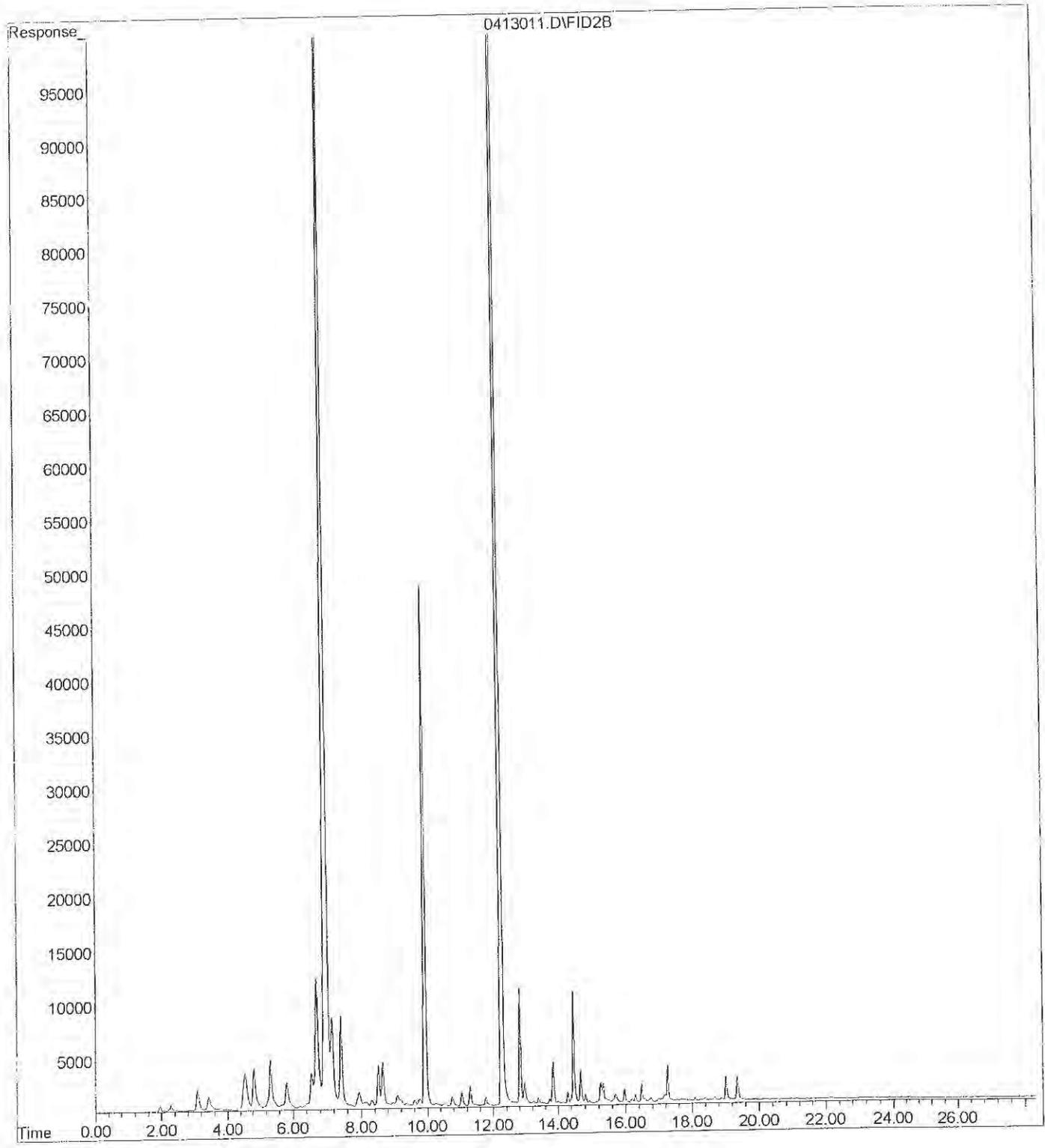
Data Qualifiers and Abbreviations

- 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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

File :C:\msdchem\2\DATA\V090409.SEC\0409-V67.D
Operator : ZT
Acquired : 9 Apr 09 8128 p using AcqMethod V090325F.M
Instrument : Vigo
Sample Name: 04-049-12
Misc Info :
Vial Number: 67



File : X:\BTEX\DARYL\DATA\D090413\0413011.D
Operator :
Acquired : 13 Apr 2009 17:06 using AcqMethod 090408B.M
Instrument : Daryl
Sample Name: 04-049-12e 1:4
Misc Info :
Vial Number: 11



Chain of Custody

Company: CDM

Project Number: 19897.68445

Project Name: Bothell X-Roads

Project Manager: Pam Morrill

Sampled by: August Welch

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

_____ (other)

Laboratory Number: 04-049

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture	
11	B18-7	4/6/09	1125	S	5					X										X
12	B18-W	4/6/09	1130	W	8	X	X			X										
13	TRIP Blank	4/6/09		W	3					X										

Signature	Company	Date	Time	Comments/Special Instructions:
<u>August Welch</u>	<u>CDM</u>	<u>4/7/09</u>	<u>430</u>	<u>Added 4/13/09. DB</u>
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date	Reviewed by/Date	Chromatograms with final report <input checked="" type="checkbox"/>		



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

May 29, 2009

Vance Atkins
HWA GeoSciences, Inc.
19730 64th Avenue West, Suite 200
Lynnwood, WA 98036

Re: Analytical Data for Project 2007-098
Laboratory Reference No. 0905-123

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on May 20, 2009.

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,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

Case Narrative

Samples were collected on May 19, 2009, and received by the laboratory on May 20, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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/BTEX and Volatiles EPA 8260B 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.

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.

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Dx

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GM-2-6	UM-6-6	UM-5-7
Lab ID:	05-123-01	05-123-05	05-123-08
Diesel Range:	ND	ND	ND
PQL:	28	28	28
Identification:	---	---	---
Lube Oil Range:	470	390	940
PQL:	56	56	54
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	86%	109%	119%
Flags:	Y	Y	Y

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Dx

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	UM-4-5	UM-3-10	UM-1-5
Lab ID:	05-123-11	05-123-15	05-123-17
Diesel Range:	ND	ND	ND
PQL:	28	29	28
Identification:	---	---	---
Lube Oil Range:	740	85	220
PQL:	56	59	57
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	102%	84%	80%
Flags:	Y	Y	Y

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Dx

Date Extracted: 5-22-09
Date Analyzed: 5-22-09

Matrix: Soil
Units: mg/kg (ppm)

Client ID: BB-1-10
Lab ID: 05-123-20

Diesel Range: **ND**
PQL: 29
Identification: ---

Lube Oil Range: **140**
PQL: 59
Identification: Lube Oil

Surrogate Recovery
o-Terphenyl: 87%

Flags: Y

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 5-22-09
Date Analyzed: 5-22-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0522S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 110%

Flags: Y

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 5-22-09
Date Analyzed: 5-22-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-125-01 05-125-01 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 93% 103%

Flags: Y Y

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Dx

Date Extracted: 5-26-09
 Date Analyzed: 5-26&27-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	GM-2-W	UM-6-W	UM-5-W
Lab ID:	05-123-03	05-123-04	05-123-07
Diesel Range:	ND	ND	ND
PQL:	0.25	0.25	0.26
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.40	0.40	0.41
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	88%	88%	105%
Flags:	Y	Y	Y

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Dx

Date Extracted: 5-26-09
 Date Analyzed: 5-27-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	UM-4-W	UM-3-W	UM-1-W
Lab ID:	05-123-10	05-123-13	05-123-16
Diesel Range:	ND	ND	ND
PQL:	0.26	0.25	0.26
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.42	0.40	0.42
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	117%	94%	94%
Flags:	Y	Y	Y

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Dx

Date Extracted: 5-26-09
Date Analyzed: 5-27-09

Matrix: Water
Units: mg/L (ppm)

Client ID: BB-1-W
Lab ID: 05-123-19

Diesel Range: **ND**
PQL: 0.28
Identification: ---

Lube Oil Range: **ND**
PQL: 0.45
Identification: ---

Surrogate Recovery
o-Terphenyl: 85%

Flags: Y

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 5-26-09
Date Analyzed: 5-27-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0526W1

Diesel Range: **ND**
PQL: 0.25
Identification: ---

Lube Oil Range: **ND**
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 86%

Flags: Y

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 5-26-09
Date Analyzed: 5-26&27-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: 05-123-03 05-123-03 DUP

Diesel Range: **ND** **ND**
PQL: 0.25 0.27

RPD: N/A

Surrogate Recovery
o-Terphenyl: 88% 92%

Flags: Y Y

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Gx/BTEX

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **GM-2-6** **GM-6-6**
 Lab ID: 05-123-01 05-123-05

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	---		
Toluene	ND		0.036	---		
Ethyl Benzene	ND		0.036	---		
m,p-Xylene	ND		0.036	---		
o-Xylene	ND		0.036	---		
TPH-Gas	ND		3.6	ND		5.8
Surrogate Recovery: Fluorobenzene	80%			81%		

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Gx/BTEX

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GM-5-7	GM-4-5
Lab ID:	05-123-08	05-123-11

	Result	Flags	PQL	Result	Flags	PQL
Benzene	---			ND		0.020
Toluene	---			ND		0.051
Ethyl Benzene	---			ND		0.051
m,p-Xylene	---			ND		0.051
o-Xylene	---			ND		0.051
TPH-Gas	ND		4.6	ND		5.1
Surrogate Recovery:						
Fluorobenzene	84%			81%		

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Gx

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	GM-3-10	GM-1-5
Lab ID:	05-123-15	05-123-17

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		6.1	ND		6.0
Surrogate Recovery: Fluorobenzene	75%			77%		

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Gx

Date Extracted: 5-22-09
Date Analyzed: 5-22-09

Matrix: Soil
Units: mg/kg (ppm)

Client ID: **BB-1-10**
Lab ID: 05-123-20

	Result	Flags	PQL
TPH-Gas	ND		5.7
Surrogate Recovery: Fluorobenzene	78%		

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-22-09
Date Analyzed: 5-22-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0522S2

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	88%		

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 5-22-09

Date Analyzed: 5-22-09

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID:	05-123-01 Original	05-123-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	80%	77%		

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 5-22-09

Date Analyzed: 5-22-09

Matrix: Soil
 Units: mg/kg (ppm)

Spike Level (ppm): 2.08

Lab ID:	05-129-01 MS	Percent Recovery	05-129-01 MSD	Percent Recovery	RPD	Flags
Benzene	1.95	94	1.97	95	1	
Toluene	1.98	95	1.98	95	0	
Ethyl Benzene	2.06	99	2.08	100	1	
m,p-Xylene	2.05	98	2.06	99	0	
o-Xylene	2.02	97	2.03	98	1	

Surrogate Recovery:

Fluorobenzene 77% 77%

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Gx/BTEX

Date Extracted: 5-21-09
 Date Analyzed: 5-21-09

Matrix: Water
 Units: ug/L (ppb)

Client ID: **GM-2-W** **GM-6-W**
 Lab ID: 05-123-03 05-123-04

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		1.0	---		
Toluene	ND		1.0	---		
Ethyl Benzene	ND		1.0	---		
m,p-Xylene	ND		1.0	---		
o-Xylene	ND		1.0	---		
TPH-Gas	ND		100	ND		400
Surrogate Recovery:						
Fluorobenzene	89%			84%		

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Gx/BTEX

Date Extracted: 5-21-09
 Date Analyzed: 5-21-09

Matrix: Water
 Units: ug/L (ppb)

Client ID: **GM-5-W** **GM-4-W**
 Lab ID: 05-123-07 05-123-10

	Result	Flags	PQL	Result	Flags	PQL
Benzene	---			ND		1.0
Toluene	---			ND		1.0
Ethyl Benzene	---			ND		1.0
m,p-Xylene	---			ND		1.0
o-Xylene	---			ND		1.0
TPH-Gas	ND		100	ND		100
Surrogate Recovery:						
Fluorobenzene	91%			90%		

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

NWTPH-Gx

Date Extracted: 5-21-09
 Date Analyzed: 5-21-09

Matrix: Water
 Units: ug/L (ppb)

Client ID: **GM-3-W**
 Lab ID: 05-123-13

GM-1-W
 05-123-16

	Result	Flags	PQL	Result	Flags	PQL
TPH-Gas	ND		100	ND		100
Surrogate Recovery: Fluorobenzene	89%			89%		

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

NWTPH-Gx

Date Extracted: 5-21-09
Date Analyzed: 5-21-09

Matrix: Water
Units: ug/L (ppb)

Client ID: **BB-1-W**
Lab ID: 05-123-19

	Result	Flags	PQL
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	87%		

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-21-09
Date Analyzed: 5-21-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0521W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Surrogate Recovery:			
Fluorobenzene	88%		

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 5-21-09
 Date Analyzed: 5-21-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID:	05-123-03 Original	05-123-03 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	89%	86%		

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 5-29-09

Date Analyzed: 5-29-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-123-01

Client ID: GM-2-6

Analyte	Method	Result	PQL
Arsenic	6010B	ND	11
Barium	6010B	51	2.8
Cadmium	6010B	ND	0.56
Chromium	6010B	27	0.56
Lead	6010B	28	5.6
Mercury	7471A	ND	0.28
Selenium	6010B	ND	11
Silver	6010B	ND	0.56

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 5-29-09

Date Analyzed: 5-29-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-123-05

Client ID: GM-6-6

Analyte	Method	Result	PQL
Arsenic	6010B	ND	11
Barium	6010B	62	2.8
Cadmium	6010B	ND	0.56
Chromium	6010B	24	0.56
Lead	6010B	49	5.6
Mercury	7471A	ND	0.28
Selenium	6010B	ND	11
Silver	6010B	ND	0.56

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 5-29-09

Date Analyzed: 5-29-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-123-08

Client ID: GM-5-7

Analyte	Method	Result	PQL
Arsenic	6010B	ND	11
Barium	6010B	61	2.7
Cadmium	6010B	ND	0.54
Chromium	6010B	26	0.54
Lead	6010B	59	5.4
Mercury	7471A	ND	0.27
Selenium	6010B	ND	11
Silver	6010B	ND	0.54

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 5-29-09

Date Analyzed: 5-29-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-123-11

Client ID: GM-4-5

Analyte	Method	Result	PQL
Arsenic	6010B	ND	11
Barium	6010B	63	2.8
Cadmium	6010B	ND	0.56
Chromium	6010B	27	0.56
Lead	6010B	100	5.6
Mercury	7471A	ND	0.28
Selenium	6010B	ND	11
Silver	6010B	ND	0.56

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 5-29-09

Date Analyzed: 5-29-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-123-20

Client ID: BB-1-10

Analyte	Method	Result	PQL
Arsenic	6010B	ND	12
Barium	6010B	32	2.9
Cadmium	6010B	ND	0.59
Chromium	6010B	26	0.59
Lead	6010B	ND	5.9
Mercury	7471A	ND	0.29
Selenium	6010B	ND	12
Silver	6010B	ND	0.59

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 6010B/7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-29-09
Date Analyzed: 5-29-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0529S1&MB0529S2

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

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**TOTAL METALS
 EPA 6010B/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 5-29-09
 Date Analyzed: 5-29-09

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 05-123-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	45.1	45.2	0	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	24.0	28.0	15	0.50	
Lead	24.6	25.5	4	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	0.50	

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**TOTAL METALS
 EPA 6010B/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 5-29-09

Date Analyzed: 5-29-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-123-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	94.6	95	95.1	95	1	
Barium	100	135	90	138	92	2	
Cadmium	50	47.3	95	47.7	95	1	
Chromium	100	118	94	117	93	1	
Lead	250	252	91	253	92	1	
Mercury	0.50	0.523	105	0.521	104	0	
Selenium	100	93.1	93	94.4	94	1	
Silver	25	22.7	91	23.0	92	1	

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 200.8/7470A**

Date Extracted: 5-22&27-09
Date Analyzed: 5-22&27-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-123-03
Client ID: GM-2-W

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.3
Barium	200.8	ND	28
Cadmium	200.8	ND	4.4
Chromium	200.8	ND	11
Lead	200.8	ND	1.1
Mercury	7470A	ND	0.50
Selenium	200.8	ND	5.6
Silver	200.8	ND	11

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**TOTAL METALS
 EPA 200.8/7470A**

Date Extracted: 5-22&27-09
 Date Analyzed: 5-22&27-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-04
 Client ID: GM-6-W

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.3
Barium	200.8	ND	28
Cadmium	200.8	ND	4.4
Chromium	200.8	ND	11
Lead	200.8	ND	1.1
Mercury	7470A	ND	0.50
Selenium	200.8	ND	5.6
Silver	200.8	ND	11

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**TOTAL METALS
 EPA 200.8/7470A**

Date Extracted: 5-22&27-09
 Date Analyzed: 5-22&27-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-07
 Client ID: GM-5-W

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.3
Barium	200.8	40	28
Cadmium	200.8	ND	4.4
Chromium	200.8	ND	11
Lead	200.8	ND	1.1
Mercury	7470A	ND	0.50
Selenium	200.8	ND	5.6
Silver	200.8	ND	11

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 200.8/7470A**

Date Extracted: 5-22&27-09
Date Analyzed: 5-22&27-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-123-10
Client ID: GM-4-W

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.3
Barium	200.8	ND	28
Cadmium	200.8	ND	4.4
Chromium	200.8	ND	11
Lead	200.8	ND	1.1
Mercury	7470A	ND	0.50
Selenium	200.8	ND	5.6
Silver	200.8	ND	11

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Laboratory Reference: 0905-123
Project: 2007-098

**TOTAL METALS
EPA 200.8/7470A**

Date Extracted: 5-22&27-09
Date Analyzed: 5-22&27-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-123-19
Client ID: BB-1-W

Analyte	Method	Result	PQL
Arsenic	200.8	180	33
Barium	200.8	2400	280
Cadmium	200.8	ND	4.4
Chromium	200.8	930	110
Lead	200.8	380	11
Mercury	7470A	0.59	0.50
Selenium	200.8	11	5.6
Silver	200.8	ND	11

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**TOTAL METALS
 EPA 200.8/7470A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-22&27-09
 Date Analyzed: 5-22&27-09

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: MB0522W1&MB0527W2

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.3
Barium	200.8	ND	28
Cadmium	200.8	ND	4.4
Chromium	200.8	ND	11
Lead	200.8	ND	1.1
Mercury	7470A	ND	0.50
Selenium	200.8	ND	5.6
Silver	200.8	ND	11

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**TOTAL METALS
 EPA 200.8/7470A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 5-22&27-09
 Date Analyzed: 5-22&27-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.3	
Barium	ND	ND	NA	28	
Cadmium	ND	ND	NA	4.4	
Chromium	ND	ND	NA	11	
Lead	ND	ND	NA	1.1	
Mercury	ND	ND	NA	0.50	
Selenium	ND	ND	NA	5.6	
Silver	ND	ND	NA	11	

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**TOTAL METALS
 EPA 200.8/7470A
 MS/MSD QUALITY CONTROL**

Date Extracted: 5-22&27-09
 Date Analyzed: 5-22&27-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD
Arsenic	110	117	107	109	99	7
Barium	110	130	118	118	107	10
Cadmium	110	114	104	108	98	6
Chromium	110	110	100	104	95	5
Lead	110	115	104	106	97	8
Mercury	12.5	13.0	104	12.9	103	1
Selenium	110	115	105	110	100	4
Silver	110	127	115	122	111	3

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 05-123-05
 Client ID: **UM-6-6**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00089
Chloromethane	ND		0.0045
Vinyl Chloride	ND		0.00089
Bromomethane	ND		0.00089
Chloroethane	ND		0.0045
Trichlorofluoromethane	ND		0.00089
1,1-Dichloroethene	ND		0.00089
Acetone	0.0047		0.0045
Iodomethane	ND		0.0045
Carbon Disulfide	ND		0.00089
Methylene Chloride	ND		0.0045
(trans) 1,2-Dichloroethene	ND		0.00089
Methyl t-Butyl Ether	ND		0.00089
1,1-Dichloroethane	ND		0.00089
Vinyl Acetate	ND		0.0045
2,2-Dichloropropane	ND		0.00089
(cis) 1,2-Dichloroethene	ND		0.00089
2-Butanone	ND		0.0045
Bromochloromethane	ND		0.00089
Chloroform	ND		0.00089
1,1,1-Trichloroethane	ND		0.00089
Carbon Tetrachloride	ND		0.00089
1,1-Dichloropropene	ND		0.00089
Benzene	ND		0.00089
1,2-Dichloroethane	ND		0.00089
Trichloroethene	ND		0.00089
1,2-Dichloropropane	ND		0.00089
Dibromomethane	ND		0.00089
Bromodichloromethane	ND		0.00089
2-Chloroethyl Vinyl Ether	ND		0.0089
(cis) 1,3-Dichloropropene	ND		0.00089
Methyl Isobutyl Ketone	ND		0.0045
Toluene	ND		0.0045
(trans) 1,3-Dichloropropene	ND		0.00089

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-05
 Client ID: UM-6-6

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00089
Tetrachloroethene	0.0023		0.00089
1,3-Dichloropropane	ND		0.00089
2-Hexanone	ND		0.0045
Dibromochloromethane	ND		0.00089
1,2-Dibromoethane	ND		0.00089
Chlorobenzene	ND		0.00089
1,1,1,2-Tetrachloroethane	ND		0.00089
Ethylbenzene	ND		0.00089
m,p-Xylene	ND		0.0018
o-Xylene	ND		0.00089
Styrene	ND		0.00089
Bromoform	ND		0.00089
Isopropylbenzene	ND		0.00089
Bromobenzene	ND		0.00089
1,1,2,2-Tetrachloroethane	ND		0.00089
1,2,3-Trichloropropane	ND		0.00089
n-Propylbenzene	ND		0.00089
2-Chlorotoluene	ND		0.00089
4-Chlorotoluene	ND		0.00089
1,3,5-Trimethylbenzene	ND		0.00089
tert-Butylbenzene	ND		0.00089
1,2,4-Trimethylbenzene	ND		0.00089
sec-Butylbenzene	ND		0.00089
1,3-Dichlorobenzene	ND		0.00089
p-Isopropyltoluene	ND		0.00089
1,4-Dichlorobenzene	ND		0.00089
1,2-Dichlorobenzene	ND		0.00089
n-Butylbenzene	ND		0.00089
1,2-Dibromo-3-chloropropane	ND		0.0045
1,2,4-Trichlorobenzene	ND		0.00089
Hexachlorobutadiene	ND		0.0045
Naphthalene	ND		0.00089
1,2,3-Trichlorobenzene	ND		0.00089
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	107		55-125
Toluene-d8	107		56-127
4-Bromofluorobenzene	94		54-130

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 05-123-08
 Client ID: UM-5-7

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00096
Chloromethane	ND		0.0048
Vinyl Chloride	ND		0.00096
Bromomethane	ND		0.00096
Chloroethane	ND		0.0048
Trichlorofluoromethane	ND		0.00096
1,1-Dichloroethene	ND		0.00096
Acetone	0.0064		0.0048
Iodomethane	ND		0.0048
Carbon Disulfide	ND		0.00096
Methylene Chloride	ND		0.0048
(trans) 1,2-Dichloroethene	ND		0.00096
Methyl t-Butyl Ether	ND		0.00096
1,1-Dichloroethane	ND		0.00096
Vinyl Acetate	ND		0.0048
2,2-Dichloropropane	ND		0.00096
(cis) 1,2-Dichloroethene	ND		0.00096
2-Butanone	ND		0.0048
Bromochloromethane	ND		0.00096
Chloroform	ND		0.00096
1,1,1-Trichloroethane	ND		0.00096
Carbon Tetrachloride	ND		0.00096
1,1-Dichloropropene	ND		0.00096
Benzene	ND		0.00096
1,2-Dichloroethane	ND		0.00096
Trichloroethene	ND		0.00096
1,2-Dichloropropane	ND		0.00096
Dibromomethane	ND		0.00096
Bromodichloromethane	ND		0.00096
2-Chloroethyl Vinyl Ether	ND		0.0096
(cis) 1,3-Dichloropropene	ND		0.00096
Methyl Isobutyl Ketone	ND		0.0048
Toluene	ND		0.0048
(trans) 1,3-Dichloropropene	ND		0.00096

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-08
 Client ID: UM-5-7

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00096
Tetrachloroethene	ND		0.00096
1,3-Dichloropropane	ND		0.00096
2-Hexanone	ND		0.0048
Dibromochloromethane	ND		0.00096
1,2-Dibromoethane	ND		0.00096
Chlorobenzene	ND		0.00096
1,1,1,2-Tetrachloroethane	ND		0.00096
Ethylbenzene	ND		0.00096
m,p-Xylene	ND		0.0019
o-Xylene	ND		0.00096
Styrene	ND		0.00096
Bromoform	ND		0.00096
Isopropylbenzene	ND		0.00096
Bromobenzene	ND		0.00096
1,1,2,2-Tetrachloroethane	ND		0.00096
1,2,3-Trichloropropane	ND		0.00096
n-Propylbenzene	ND		0.00096
2-Chlorotoluene	ND		0.00096
4-Chlorotoluene	ND		0.00096
1,3,5-Trimethylbenzene	ND		0.00096
tert-Butylbenzene	ND		0.00096
1,2,4-Trimethylbenzene	ND		0.00096
sec-Butylbenzene	ND		0.00096
1,3-Dichlorobenzene	ND		0.00096
p-Isopropyltoluene	ND		0.00096
1,4-Dichlorobenzene	ND		0.00096
1,2-Dichlorobenzene	ND		0.00096
n-Butylbenzene	ND		0.00096
1,2-Dibromo-3-chloropropane	ND		0.0048
1,2,4-Trichlorobenzene	ND		0.00096
Hexachlorobutadiene	ND		0.0048
Naphthalene	ND		0.00096
1,2,3-Trichlorobenzene	ND		0.00096
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	109		55-125
Toluene-d8	106		56-127
4-Bromofluorobenzene	91		54-130

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 05-123-15
 Client ID: UM-3-10

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0052
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0052
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0052
Iodomethane	ND		0.0052
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0052
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0052
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0052
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.010
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0052
Toluene	ND		0.0052
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-15
 Client ID: UM-3-10

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	0.0099		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0052
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0021
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0052
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0052
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	106	55-125
Toluene-d8	104	56-127
4-Bromofluorobenzene	93	54-130

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 05-123-17
 Client ID: UM-1-5

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0051
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0051
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0051
Iodomethane	ND		0.0051
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0051
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0051
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0051
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.010
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0051
Toluene	ND		0.0051
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-17
 Client ID: UM-1-5

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	0.0056		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0051
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0051
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0051
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	110	55-125
Toluene-d8	111	56-127
4-Bromofluorobenzene	93	54-130

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 05-123-20
 Client ID: BB-1-10

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0056
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0056
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	0.026		0.0056
Iodomethane	ND		0.0056
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0056
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0056
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	0.0067		0.0056
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.011
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0056
Toluene	ND		0.0056
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-20
 Client ID: **BB-1-10**

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0056
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0023
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0056
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0056
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	104	55-125
Toluene-d8	107	56-127
4-Bromofluorobenzene	95	54-130

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0522S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
Iodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.010
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0050
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 2 of 2

Lab ID: MB0522S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	111	55-125
Toluene-d8	114	56-127
4-Bromofluorobenzene	104	54-130

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0522S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0542	108	0.0539	108	70-130	
Benzene	0.0500	0.0464	93	0.0483	97	70-128	
Trichloroethene	0.0500	0.0474	95	0.0466	93	70-124	
Toluene	0.0500	0.0472	94	0.0468	94	73-123	
Chlorobenzene	0.0500	0.0450	90	0.0475	95	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	1	16	
Benzene	4	15	
Trichloroethene	2	14	
Toluene	1	14	
Chlorobenzene	5	13	

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-04

Client ID: UM-6-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	0.28		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	0.38		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-04
 Client ID: UM-6-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	72	70-123

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-07

Client ID: UM-5-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	0.25		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-07
 Client ID: UM-5-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	71	70-123

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-13

Client ID: UM-3-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	1.0		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	7.0		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	1.1		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-13
 Client ID: UM-3-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.90		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	94		71-126
Toluene-d8	87		76-116
4-Bromofluorobenzene	72		70-123

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-123-16

Client ID: UM-1-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-16
 Client ID: UM-1-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	95	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	72	70-123

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 05-123-19
 Client ID: BB-1-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	7.1		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	0.30		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	0.25		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	4.5		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 05-123-19
 Client ID: BB-1-W

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.90		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	93	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	73	70-123

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0522W2

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		2.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		1.0
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 2 of 2

Lab ID: MB0522W2

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	92	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	73	70-123

Date of Report: May 29, 2009
 Samples Submitted: May 20, 2009
 Laboratory Reference: 0905-123
 Project: 2007-098

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 5-22-09
 Date Analyzed: 5-22-09
 Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0522W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	9.90	99	9.91	99	70-130	
Benzene	10.0	9.46	95	9.66	97	70-130	
Trichloroethene	10.0	10.4	104	9.66	97	70-123	
Toluene	10.0	9.97	100	9.47	95	77-120	
Chlorobenzene	10.0	9.68	97	9.75	98	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	0	21	
Benzene	2	18	
Trichloroethene	7	18	
Toluene	5	17	
Chlorobenzene	1	18	

Date of Report: May 29, 2009
Samples Submitted: May 20, 2009
Lab Traveler: 0905-123
Project: 2007-098

% MOISTURE

Date Analyzed: 5-22-09

Client ID	Lab ID	% Moisture
GM-2-6	05-123-01	11
UM-6-W	05-123-05	11
UM-5-7	05-123-08	8
UM-4-5	05-123-11	10
UM-3-10	05-123-15	15
UM-1-5	05-123-17	12
BB-1-10	05-123-20	15



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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

October 6, 2009

Scott Elkind
Parametrix
411 108th Avenue NE, Suite 1800
Bellevue, WA 98004

Re: Analytical Data for Project Bothell RI/FS; Riverside
Laboratory Reference No. 0909-007

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 1, 2009.

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,

A handwritten signature in black ink, appearing to read 'DB' followed by a flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: October 6, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-007
Project: Bothell RI/FS; Riverside

Case Narrative

Samples were collected on August 31, 2009, and received by the laboratory on September 1, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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/BTEX 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.

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.

Halogenated Volatiles EPA 8260B Analysis

Per EPA Method 5035A, (except as noted below) 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.

Method 5035A VOA vials were not provided for samples RMW-6-5, RMW-6-10, and RMW-6-15. The samples were therefore extracted from 4-ounce jars and analyzed.

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.

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

NWTPH-Dx

Date Extracted: 9-2-09
 Date Analyzed: 9-3&4-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	RMW-4-17 1/2	RMW-5-15	RMW-5-10
Lab ID:	09-007-04	09-007-05	09-007-06
Diesel Range:	ND	ND	ND
PQL:	35	33	35
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	69	65	69
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	80%	106%	89%
Flags:	Y	Y	Y

Date of Report: October 6, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-007
Project: Bothell RI/FS; Riverside

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-2-09
Date Analyzed: 9-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0902S2

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 104%

Flags: Y

Date of Report: October 6, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-007
Project: Bothell RI/FS; Riverside

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-007-05 09-007-05 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 106% 100%

Flags: Y Y

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

NWTPH-Gx/BTEX

Date Extracted: 9-2-09
 Date Analyzed: 9-2-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **RMW-4-171/2** **RMW-5-15**
 Lab ID: 09-007-04 09-007-05

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.020
Toluene	ND		0.056	ND		0.049
Ethyl Benzene	ND		0.056	ND		0.049
m,p-Xylene	ND		0.056	ND		0.049
o-Xylene	ND		0.056	ND		0.049
TPH-Gas	ND		2.8	ND		2.5
Surrogate Recovery:						
Fluorobenzene	108%			85%		

Date of Report: October 6, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-007
Project: Bothell RI/FS; Riverside

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-2-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0902S2

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	85%		

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 9-2-09

Date Analyzed: 9-4-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID:	08-216-11 Original	08-216-11 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	94%	92%		

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

**NWTPH-Gx/BTEX
 SB/SBD QUALITY CONTROL**

Date Extracted: 9-2-09

Date Analyzed: 9-2-09

Matrix: Soil

Units: mg/kg (ppm)

Spike Level: 1.00 ppm

Lab ID:	SB0902S1 SB	Percent Recovery	SBD0902S1 SBD	Percent Recovery	RPD	Flags
Benzene	0.869	87	0.898	90	3	
Toluene	0.889	89	0.917	92	3	
Ethyl Benzene	0.918	92	0.943	94	3	
m,p-Xylene	0.940	94	0.963	96	3	
o-Xylene	0.963	96	0.968	97	0	

Surrogate Recovery:

Fluorobenzene	87%	90%
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Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RMW-4-5					
Laboratory ID:	09-007-01					
Naphthalene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
2-Methylnaphthalene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
1-Methylnaphthalene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Acenaphthylene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Acenaphthene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Fluorene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Phenanthrene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Anthracene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Fluoranthene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Pyrene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[a]anthracene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Chrysene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[k]fluoranthene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[a]pyrene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270/SIM	9-2-09	9-4-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>50 - 118</i>				

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RMW-4-10					
Laboratory ID:	09-007-02					
Naphthalene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
2-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
1-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Acenaphthylene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Acenaphthene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Fluorene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Phenanthrene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Anthracene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Fluoranthene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Pyrene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[a]anthracene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Chrysene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[k]fluoranthene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[a]pyrene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[g,h,i]perylene	ND	0.0079	EPA 8270/SIM	9-2-09	9-4-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>72</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>102</i>	<i>50 - 118</i>				

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RMW-4-15					
Laboratory ID:	09-007-03					
Naphthalene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
2-Methylnaphthalene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
1-Methylnaphthalene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Acenaphthylene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Acenaphthene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Fluorene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Phenanthrene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Anthracene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Fluoranthene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Pyrene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[a]anthracene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Chrysene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[b]fluoranthene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[k]fluoranthene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[a]pyrene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Dibenz[a,h]anthracene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
Benzo[g,h,i]perylene	ND	0.0093	EPA 8270/SIM	9-2-09	9-4-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>74</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>102</i>	<i>50 - 118</i>				

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0902S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Acenaphthene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Fluorene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Phenanthrene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Anthracene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Fluoranthene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Pyrene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Chrysene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	9-2-09	9-3-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>112</i>	<i>50 - 118</i>				

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0902S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0594	0.0612	0.0833	0.0833	71	73	31 - 102	3	30	
Acenaphthylene	0.0738	0.0773	0.0833	0.0833	89	93	48 - 104	5	26	
Acenaphthene	0.0650	0.0683	0.0833	0.0833	78	82	46 - 105	5	26	
Fluorene	0.0665	0.0704	0.0833	0.0833	80	85	52 - 107	6	25	
Phenanthrene	0.0667	0.0712	0.0833	0.0833	80	85	58 - 104	7	21	
Anthracene	0.0702	0.0763	0.0833	0.0833	84	92	56 - 103	8	21	
Fluoranthene	0.0729	0.0779	0.0833	0.0833	88	94	65 - 111	7	20	
Pyrene	0.0656	0.0783	0.0833	0.0833	79	94	65 - 115	18	20	
Benzo[a]anthracene	0.0695	0.0732	0.0833	0.0833	83	88	55 - 111	5	19	
Chrysene	0.0701	0.0744	0.0833	0.0833	84	89	58 - 121	6	19	
Benzo[b]fluoranthene	0.0699	0.0744	0.0833	0.0833	84	89	57 - 120	6	20	
Benzo[k]fluoranthene	0.0745	0.0786	0.0833	0.0833	89	94	52 - 123	5	21	
Benzo[a]pyrene	0.0664	0.0724	0.0833	0.0833	80	87	49 - 106	9	22	
Indeno(1,2,3-c,d)pyrene	0.0622	0.0658	0.0833	0.0833	75	79	56 - 125	6	22	
Dibenz[a,h]anthracene	0.0656	0.0693	0.0833	0.0833	79	83	55 - 129	5	24	
Benzo[g,h,i]perylene	0.0537	0.0590	0.0833	0.0833	64	71	55 - 122	9	23	
<i>Surrogate:</i>										
2-Fluorobiphenyl					72	76	39 - 103			
Pyrene-d10					75	93	39 - 115			
Terphenyl-d14					105	118	50 - 118			

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-007-07
 Client ID: RMW-6-5

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0054
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0054
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0054
Methylene Chloride	0.0099	H	0.0054
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0054
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-007-07
 Client ID: RMW-6-5

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0054
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0054
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	93	55-125
Toluene-d8	89	56-127
4-Bromofluorobenzene	84	54-130

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-007-08
 Client ID: **RMW-6-10**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0071
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0071
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Iodomethane	ND		0.0071
Methylene Chloride	0.0092	H	0.0071
(trans) 1,2-Dichloroethene	ND		0.0014
1,1-Dichloroethane	ND		0.0014
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0071
(cis) 1,3-Dichloropropene	ND		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-007-08
 Client ID: RMW-6-10

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Bromoform	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0071
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0071
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	55-125
Toluene-d8	99	56-127
4-Bromofluorobenzene	93	54-130

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-007-09
 Client ID: **RMW-6-15**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0015
Chloromethane	ND		0.0074
Vinyl Chloride	ND		0.0015
Bromomethane	ND		0.0015
Chloroethane	ND		0.0074
Trichlorofluoromethane	ND		0.0015
1,1-Dichloroethene	ND		0.0015
Iodomethane	ND		0.0074
Methylene Chloride	0.017	H	0.0074
(trans) 1,2-Dichloroethene	ND		0.0015
1,1-Dichloroethane	ND		0.0015
2,2-Dichloropropane	ND		0.0015
(cis) 1,2-Dichloroethene	0.0045		0.0015
Bromochloromethane	ND		0.0015
Chloroform	ND		0.0015
1,1,1-Trichloroethane	ND		0.0015
Carbon Tetrachloride	ND		0.0015
1,1-Dichloropropene	ND		0.0015
1,2-Dichloroethane	ND		0.0015
Trichloroethene	ND		0.0015
1,2-Dichloropropane	ND		0.0015
Dibromomethane	ND		0.0015
Bromodichloromethane	ND		0.0015
2-Chloroethyl Vinyl Ether	ND		0.0074
(cis) 1,3-Dichloropropene	ND		0.0015
(trans) 1,3-Dichloropropene	ND		0.0015

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-007-09
 Client ID: RMW-6-15

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0015
Tetrachloroethene	ND		0.0015
1,3-Dichloropropane	ND		0.0015
Dibromochloromethane	ND		0.0015
1,2-Dibromoethane	ND		0.0015
Chlorobenzene	ND		0.0015
1,1,1,2-Tetrachloroethane	ND		0.0015
Bromoform	ND		0.0015
Bromobenzene	ND		0.0015
1,1,2,2-Tetrachloroethane	ND		0.0015
1,2,3-Trichloropropane	ND		0.0015
2-Chlorotoluene	ND		0.0015
4-Chlorotoluene	ND		0.0015
1,3-Dichlorobenzene	ND		0.0015
1,4-Dichlorobenzene	ND		0.0015
1,2-Dichlorobenzene	ND		0.0015
1,2-Dibromo-3-chloropropane	ND		0.0074
1,2,4-Trichlorobenzene	ND		0.0015
Hexachlorobutadiene	ND		0.0074
1,2,3-Trichlorobenzene	ND		0.0015

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	55-125
Toluene-d8	91	56-127
4-Bromofluorobenzene	77	54-130

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0904S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0904S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	55-125
Toluene-d8	103	56-127
4-Bromofluorobenzene	94	54-130

Date of Report: October 6, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-007
 Project: Bothell RI/FS; Riverside

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09

 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0904S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0435	87	0.0407	81	70-130	
Benzene	0.0500	0.0436	87	0.0413	83	70-128	
Trichloroethene	0.0500	0.0429	86	0.0422	84	70-124	
Toluene	0.0500	0.0445	89	0.0434	87	73-123	
Chlorobenzene	0.0500	0.0446	89	0.0435	87	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	7	16	
Benzene	5	15	
Trichloroethene	2	14	
Toluene	3	14	
Chlorobenzene	2	13	

Date of Report: October 6, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-007
Project: Bothell RI/FS; Riverside

% MOISTURE

Date Analyzed: 9-2-09

Client ID	Lab ID	% Moisture
RMW-4-5	09-007-01	15
RMW-4-10	09-007-02	16
RMW-4-15	09-007-03	28
RMW-4-17½	09-007-04	28
RMW-5-15	09-007-05	23
RMW-5-10	09-007-06	28
RMW-6-5	09-007-07	8
RMW-6-10	09-007-08	30
RMW-6-15	09-007-09	32



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



October 6, 2009
HWA Project No. 2007-098-23

On-Site Environmental, Inc.
14648 NE 95th Street
Redmond, Washington 98052

Attention: Mr. David Baumeister

Subject: **Soil Laboratory Testing Report
Physical Properties
Bothell RI/FS, Bothell WA**

Dear Mr. Baumeister;

As requested, HWA GeoSciences Inc. (HWA) performed laboratory testing for the subject project. Herein we present the results of our laboratory analyses, which are summarized on the attached reports and in Table 1. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: The subject project soil samples were delivered to our laboratory on September 2, 2009. Two samples were in bags, and three were in Dames and Moore rings. We understand that some of the samples are potentially contaminated.

MOISTURE CONTENT OF SOIL: The moisture content of the samples were determined in general accordance with ASTM D 2216. The indicated moisture content is based on the dry weight of soil. The moisture content is presented with the Atterberg limits Figure 1.

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS (ATTERBERG LIMITS): Selected samples were tested using method ASTM D 4318. All of the samples were sands and non-plastic. The results are reported on the attached Liquid Limit, Plastic Limit, and Plasticity Index reports, Figure 1.

PARTICLE SIZE ANALYSIS OF SOILS: Selected samples were tested to determine the particle distribution of material in general accordance with ASTM D422. The results are summarized on the attached Grain Size Distribution reports, Figures 2 and 3.

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Suite 200
Lynnwood, WA 98036.5957

Tel: 425.774.0106

Fax: 425.774.2714

www.hwageo.com

SPECIFIC GRAVITY OF SOILS: The specific gravity of selected samples of soil was determined using method ASTM D 854. The test results are as follows:

Sample	Specific Gravity
RMW-4 at 22.5 ft	2.65
RMW-4 at 25 ft	2.73
RMW-5 at 20 ft	2.83
RMW-5 at 22.5 ft	2.71
RMW-6 at 20 ft	2.66

UNIT WEIGHT AND POROSITY OF SOILS: For the samples from RMW 5 and 6, which were in Dames and Moore rings, the unit weight of the soils was calculated by ASTM D2937. For the samples from RMW-4, the unit weight was calculated from the weight of soil packed in a mold of known volume. As the results show, the maximum achievable unit weight obtained for RMW-4 samples is lower than the calculated unit weight of RMW 5 & 6 samples. The porosity was calculated from the unit weight, moisture content and specific gravity test results. The test results are as follows:

SAMPLE	WET DENSITY (PCF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	POROSITY
RMW-4 at 22.5 ft	123.2	15.0	107.2	0.35
RMW-4 at 25 ft	128.9	18.6	108.7	0.36
RMW-5 at 20 ft	133.1	4.5	127.4	0.28
RMW-5 at 22.5 ft	139.2	11.8	124.5	0.26
RMW-6 at 20 ft	139.5	12.5	124.1	0.25



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested or the test results obtained are to actual field conditions. It is a well established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

Sincerely,

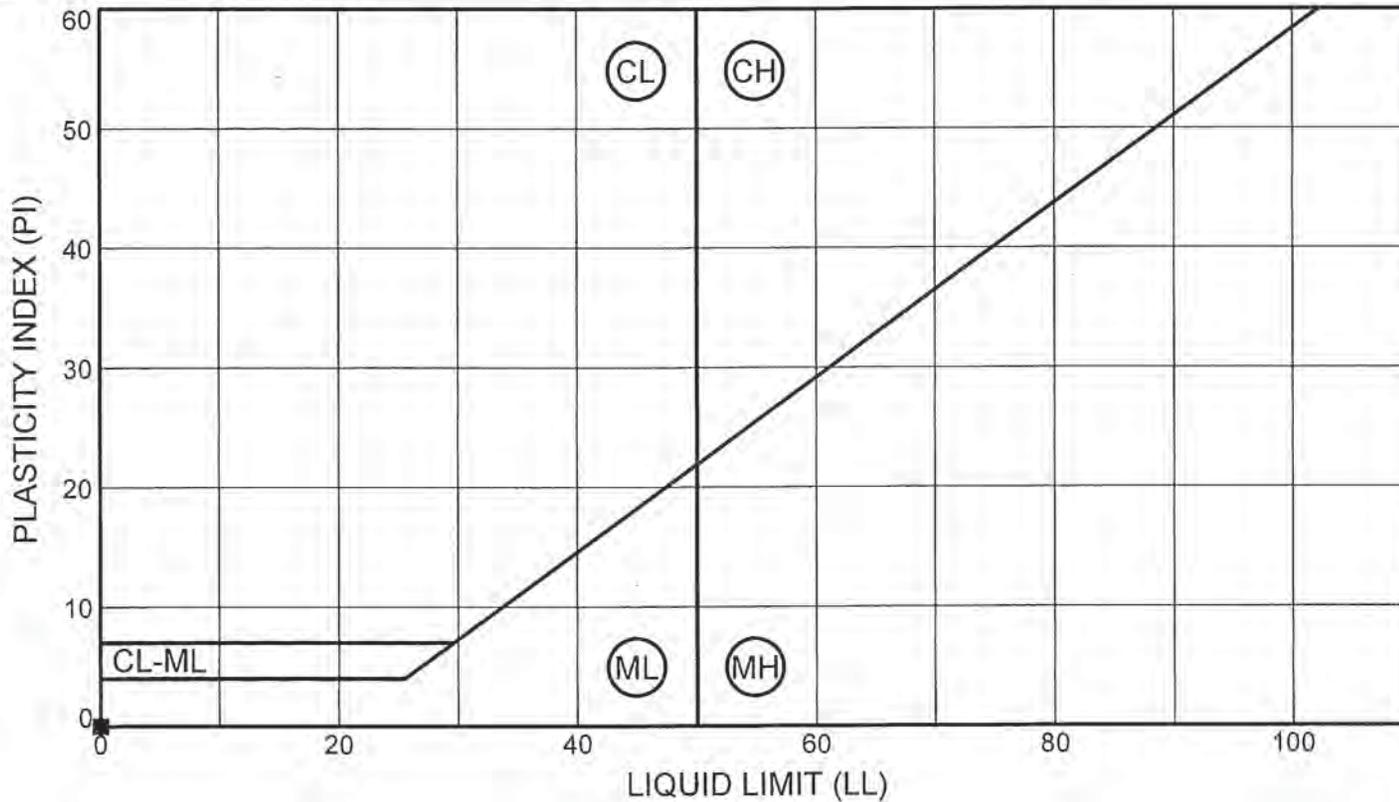
HWA GEOSCIENCES INC.



Harold Benny
Materials Laboratory Manager

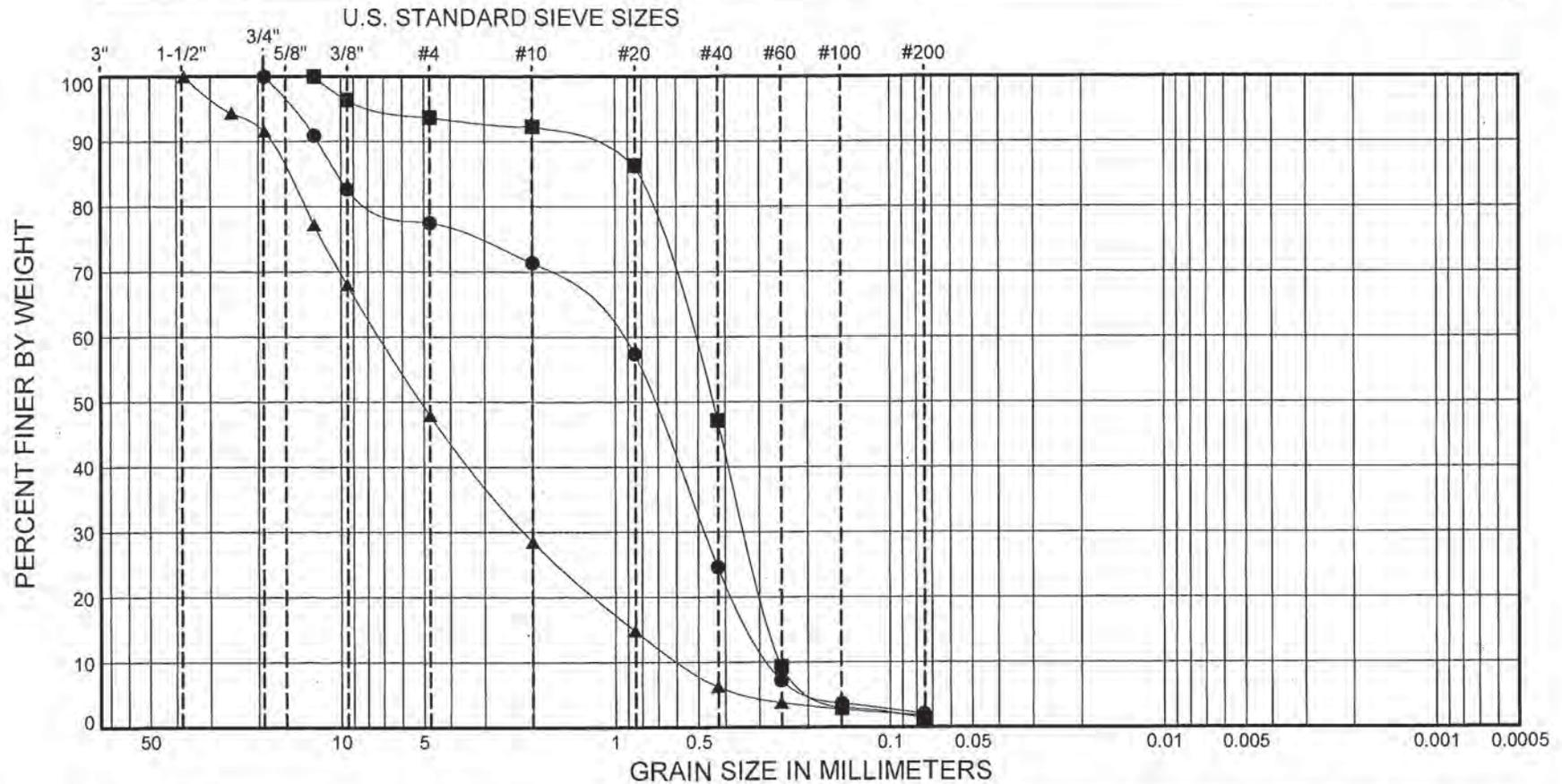


George Minassian, Ph.D, P.E.
Geotechnical Engineer



SYMBOL	SAMPLE	DEPTH (ft)	CLASSIFICATION	% MC	LL	PL	PI	% Fines
●	RMW4	22.5 - 23.5	(SP) Gray, poorly graded SAND with gravel	15	NP	NP	NP	2.1
■	RMW4	25.0 - 26.0	(SP) Gray, poorly graded SAND	19	NP	NP	NP	1.4
▲	RMW5	20.0 - 21.0	(GP) Gray, poorly graded GRAVEL with sand	5	NP	NP	NP	1.8
○	RMW5	22.5 - 23.5	(SP) Gray, poorly graded SAND with gravel	12	NP	NP	NP	2.2
□	RMW6	20.0 - 21.0	(SP-SM) Gray, poorly graded SAND with silt	12	NP	NP	NP	9.2

GRAVEL		SAND			SILT	CLAY
Coarse	Fine	Coarse	Medium	Fine		



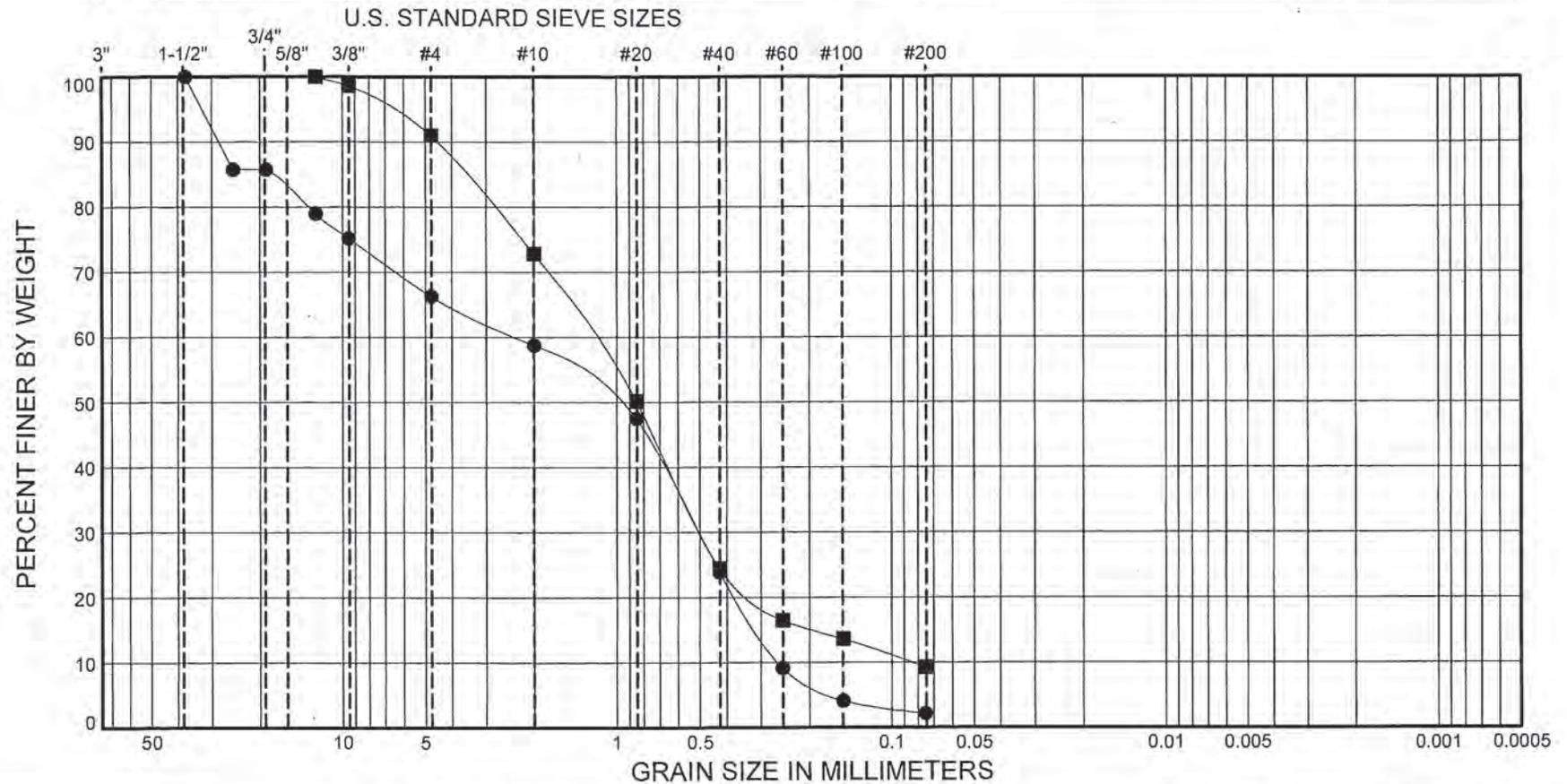
SYMBOL	SAMPLE	DEPTH (ft)	CLASSIFICATION OF SOIL- ASTM D2487 Group Symbol and Name	% MC	LL	PL	PI	Gravel %	Sand %	Fines %
●	RMW4	22.5 - 23.5	(SP) Gray, poorly graded SAND with gravel	15	NP	NP	NP	22.5	75.5	2.1
■	RMW4	25.0 - 26.0	(SP) Gray, poorly graded SAND	19	NP	NP	NP	6.3	92.3	1.4
▲	RMW5	20.0 - 21.0	(GP) Gray, poorly graded GRAVEL with sand	5	NP	NP	NP	52.0	46.1	1.8



Bothell RI/FS
On-Site Environmental

PARTICLE-SIZE ANALYSIS
OF SOILS
METHOD ASTM D422

GRAVEL		SAND			SILT	CLAY
Coarse	Fine	Coarse	Medium	Fine		



SYMBOL	SAMPLE	DEPTH (ft)	CLASSIFICATION OF SOIL- ASTM D2487 Group Symbol and Name	% MC	LL	PL	PI	Gravel %	Sand %	Fines %
●	RMW5	22.5 - 23.5	(SP) Gray, poorly graded SAND with gravel	12	NP	NP	NP	33.7	64.1	2.2
■	RMW6	20.0 - 21.0	(SP-SM) Gray, poorly graded SAND with silt	12	NP	NP	NP	9.0	81.7	9.2



Bothell RI/FS
On-Site Environmental

PARTICLE-SIZE ANALYSIS
OF SOILS
METHOD ASTM D422



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

September 10, 2009

Scott Elkind
Parametrix
411 108th Avenue NE, Suite 1800
Bellevue, WA 98004

Re: Analytical Data for Project Bothell RI/FS; Riverside
Laboratory Reference No. 0909-008

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 1, 2009.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 10, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-008
Project: Bothell RI/FS; Riverside

Case Narrative

Samples were collected on September 1, 2009, and received by the laboratory on September 1, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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/BTEX and Halogenated Volatiles EPA 8260B 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.

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.

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

NWTPH-Dx

Date Extracted: 9-2-09
 Date Analyzed: 9-3-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	RMW-8-22 1/2	RMW-9-20	Dup-090109
Lab ID:	09-008-04	09-008-05	09-008-06
Diesel Range:	ND	ND	ND
PQL:	32	31	31
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	63	62	62
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	111%	104%	109%
Flags:	Y	Y	Y

Date of Report: September 10, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-008
Project: Bothell RI/FS; Riverside

NWTPH-Dx

Date Extracted: 9-2-09
Date Analyzed: 9-3-09

Matrix: Soil
Units: mg/kg (ppm)

Client ID: RMW-7-17 1/2
Lab ID: 09-008-10

Diesel Range: **ND**
PQL: 28
Identification: ---

Lube Oil Range: **ND**
PQL: 56
Identification: ---

Surrogate Recovery
o-Terphenyl: 105%

Flags: Y

Date of Report: September 10, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-008
Project: Bothell RI/FS; Riverside

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-2-09
Date Analyzed: 9-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0902S2

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 104%

Flags: Y

Date of Report: September 10, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-008
Project: Bothell RI/FS; Riverside

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 9-2-09
Date Analyzed: 9-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-007-05 09-007-05 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 106% 100%

Flags: Y Y

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

NWTPH-Gx/BTEX

Date Extracted: 9-2-09
 Date Analyzed: 9-2-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **RMW-8-221/2** **RMW-9-20**
 Lab ID: 09-008-04 09-008-05

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.020
Toluene	ND		0.046	ND		0.040
Ethyl Benzene	ND		0.046	ND		0.040
m,p-Xylene	ND		0.046	ND		0.040
o-Xylene	ND		0.046	ND		0.040
TPH-Gas	ND		2.3	ND		2.0
Surrogate Recovery:						
Fluorobenzene	96%			93%		

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

NWTPH-Gx/BTEX

Date Extracted: 9-2-09
 Date Analyzed: 9-2-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **DUP-090109** **KMW-7-171/2**
 Lab ID: 09-008-06 09-008-10

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	ND		0.020
Toluene	ND		0.041	ND		0.029
Ethyl Benzene	ND		0.041	ND		0.029
m,p-Xylene	ND		0.041	ND		0.029
o-Xylene	ND		0.041	ND		0.029
TPH-Gas	ND		2.0	ND		1.5
Surrogate Recovery:						
Fluorobenzene	93%			90%		

Date of Report: September 10, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-008
Project: Bothell RI/FS; Riverside

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-2-09
Date Analyzed: 9-3-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0902S2

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		2.5
Surrogate Recovery: Fluorobenzene	91%		

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 9-2-09

Date Analyzed: 9-4-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID:	08-216-11 Original	08-216-11 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	94%	92%		

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

**NWTPH-Gx/BTEX
 SB/SBD QUALITY CONTROL**

Date Extracted: 9-2-09

Date Analyzed: 9-2-09

Matrix: Soil

Units: mg/kg (ppm)

Spike Level: 1.00 ppm

Lab ID:	SB0902S1 SB	Percent Recovery	SBD0902S1 SBD	Percent Recovery	RPD	Flags
Benzene	0.869	87	0.898	90	3	
Toluene	0.889	89	0.917	92	3	
Ethyl Benzene	0.918	92	0.943	94	3	
m,p-Xylene	0.940	94	0.963	96	3	
o-Xylene	0.963	96	0.968	97	0	

Surrogate Recovery:

Fluorobenzene	87%	90%
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Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-008-01
 Client ID: **RMW-8-10**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00066
Chloromethane	ND		0.0033
Vinyl Chloride	ND		0.00066
Bromomethane	ND		0.00066
Chloroethane	ND		0.0033
Trichlorofluoromethane	ND		0.00066
1,1-Dichloroethene	ND		0.00066
Iodomethane	ND		0.0033
Methylene Chloride	ND		0.0033
(trans) 1,2-Dichloroethene	ND		0.00066
1,1-Dichloroethane	ND		0.00066
2,2-Dichloropropane	ND		0.00066
(cis) 1,2-Dichloroethene	ND		0.00066
Bromochloromethane	ND		0.00066
Chloroform	ND		0.00066
1,1,1-Trichloroethane	ND		0.00066
Carbon Tetrachloride	ND		0.00066
1,1-Dichloropropene	ND		0.00066
1,2-Dichloroethane	ND		0.00066
Trichloroethene	ND		0.00066
1,2-Dichloropropane	ND		0.00066
Dibromomethane	ND		0.00066
Bromodichloromethane	ND		0.00066
2-Chloroethyl Vinyl Ether	ND		0.0033
(cis) 1,3-Dichloropropene	ND		0.00066
(trans) 1,3-Dichloropropene	ND		0.00066

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-008-01
 Client ID: RMW-8-10

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00066
Tetrachloroethene	ND		0.00066
1,3-Dichloropropane	ND		0.00066
Dibromochloromethane	ND		0.00066
1,2-Dibromoethane	ND		0.00066
Chlorobenzene	ND		0.00066
1,1,1,2-Tetrachloroethane	ND		0.00066
Bromoform	ND		0.00066
Bromobenzene	ND		0.00066
1,1,2,2-Tetrachloroethane	ND		0.00066
1,2,3-Trichloropropane	ND		0.00066
2-Chlorotoluene	ND		0.00066
4-Chlorotoluene	ND		0.00066
1,3-Dichlorobenzene	ND		0.00066
1,4-Dichlorobenzene	ND		0.00066
1,2-Dichlorobenzene	ND		0.00066
1,2-Dibromo-3-chloropropane	ND		0.0033
1,2,4-Trichlorobenzene	ND		0.00066
Hexachlorobutadiene	ND		0.0033
1,2,3-Trichlorobenzene	ND		0.00066

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	99	55-125
Toluene-d8	93	56-127
4-Bromofluorobenzene	78	54-130

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-008-02
 Client ID: RMW-8-15

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00081
Chloromethane	ND		0.0041
Vinyl Chloride	ND		0.00081
Bromomethane	ND		0.00081
Chloroethane	ND		0.0041
Trichlorofluoromethane	ND		0.00081
1,1-Dichloroethene	ND		0.00081
Iodomethane	ND		0.0041
Methylene Chloride	ND		0.0041
(trans) 1,2-Dichloroethene	ND		0.00081
1,1-Dichloroethane	ND		0.00081
2,2-Dichloropropane	ND		0.00081
(cis) 1,2-Dichloroethene	ND		0.00081
Bromochloromethane	ND		0.00081
Chloroform	ND		0.00081
1,1,1-Trichloroethane	ND		0.00081
Carbon Tetrachloride	ND		0.00081
1,1-Dichloropropene	ND		0.00081
1,2-Dichloroethane	ND		0.00081
Trichloroethene	ND		0.00081
1,2-Dichloropropane	ND		0.00081
Dibromomethane	ND		0.00081
Bromodichloromethane	ND		0.00081
2-Chloroethyl Vinyl Ether	ND		0.0041
(cis) 1,3-Dichloropropene	ND		0.00081
(trans) 1,3-Dichloropropene	ND		0.00081

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-008-02
 Client ID: RMW-8-15

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00081
Tetrachloroethene	ND		0.00081
1,3-Dichloropropane	ND		0.00081
Dibromochloromethane	ND		0.00081
1,2-Dibromoethane	ND		0.00081
Chlorobenzene	ND		0.00081
1,1,1,2-Tetrachloroethane	ND		0.00081
Bromoform	ND		0.00081
Bromobenzene	ND		0.00081
1,1,2,2-Tetrachloroethane	ND		0.00081
1,2,3-Trichloropropane	ND		0.00081
2-Chlorotoluene	ND		0.00081
4-Chlorotoluene	ND		0.00081
1,3-Dichlorobenzene	ND		0.00081
1,4-Dichlorobenzene	ND		0.00081
1,2-Dichlorobenzene	ND		0.00081
1,2-Dibromo-3-chloropropane	ND		0.0041
1,2,4-Trichlorobenzene	ND		0.00081
Hexachlorobutadiene	ND		0.0041
1,2,3-Trichlorobenzene	ND		0.00081

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	92	55-125
Toluene-d8	91	56-127
4-Bromofluorobenzene	75	54-130

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-008-03
 Client ID: RMW-8-20

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0029
Chloromethane	ND		0.015
Vinyl Chloride	ND		0.0029
Bromomethane	ND		0.0029
Chloroethane	ND		0.015
Trichlorofluoromethane	ND		0.0029
1,1-Dichloroethene	ND		0.0029
Iodomethane	ND		0.015
Methylene Chloride	ND		0.015
(trans) 1,2-Dichloroethene	ND		0.0029
1,1-Dichloroethane	ND		0.0029
2,2-Dichloropropane	ND		0.0029
(cis) 1,2-Dichloroethene	ND		0.0029
Bromochloromethane	ND		0.0029
Chloroform	ND		0.0029
1,1,1-Trichloroethane	ND		0.0029
Carbon Tetrachloride	ND		0.0029
1,1-Dichloropropene	ND		0.0029
1,2-Dichloroethane	ND		0.0029
Trichloroethene	ND		0.0029
1,2-Dichloropropane	ND		0.0029
Dibromomethane	ND		0.0029
Bromodichloromethane	ND		0.0029
2-Chloroethyl Vinyl Ether	ND		0.015
(cis) 1,3-Dichloropropene	ND		0.0029
(trans) 1,3-Dichloropropene	ND		0.0029

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-008-03
 Client ID: RMW-8-20

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0029
Tetrachloroethene	ND		0.0029
1,3-Dichloropropane	ND		0.0029
Dibromochloromethane	ND		0.0029
1,2-Dibromoethane	ND		0.0029
Chlorobenzene	ND		0.0029
1,1,1,2-Tetrachloroethane	ND		0.0029
Bromoform	ND		0.0029
Bromobenzene	ND		0.0029
1,1,2,2-Tetrachloroethane	ND		0.0029
1,2,3-Trichloropropane	ND		0.0029
2-Chlorotoluene	ND		0.0029
4-Chlorotoluene	ND		0.0029
1,3-Dichlorobenzene	ND		0.0029
1,4-Dichlorobenzene	ND		0.0029
1,2-Dichlorobenzene	ND		0.0029
1,2-Dibromo-3-chloropropane	ND		0.015
1,2,4-Trichlorobenzene	ND		0.0029
Hexachlorobutadiene	ND		0.015
1,2,3-Trichlorobenzene	ND		0.0029

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	101	55-125
Toluene-d8	86	56-127
4-Bromofluorobenzene	63	54-130

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-008-07
 Client ID: RMW-7-5

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00050
Chloromethane	ND		0.0025
Vinyl Chloride	ND		0.00050
Bromomethane	ND		0.00050
Chloroethane	ND		0.0025
Trichlorofluoromethane	ND		0.00050
1,1-Dichloroethene	ND		0.00050
Iodomethane	ND		0.0025
Methylene Chloride	ND		0.0025
(trans) 1,2-Dichloroethene	ND		0.00050
1,1-Dichloroethane	ND		0.00050
2,2-Dichloropropane	ND		0.00050
(cis) 1,2-Dichloroethene	ND		0.00050
Bromochloromethane	ND		0.00050
Chloroform	ND		0.00050
1,1,1-Trichloroethane	ND		0.00050
Carbon Tetrachloride	ND		0.00050
1,1-Dichloropropene	ND		0.00050
1,2-Dichloroethane	ND		0.00050
Trichloroethene	ND		0.00050
1,2-Dichloropropane	ND		0.00050
Dibromomethane	ND		0.00050
Bromodichloromethane	ND		0.00050
2-Chloroethyl Vinyl Ether	ND		0.0025
(cis) 1,3-Dichloropropene	ND		0.00050
(trans) 1,3-Dichloropropene	ND		0.00050

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-008-07
 Client ID: RMW-7-5

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00050
Tetrachloroethene	ND		0.00050
1,3-Dichloropropane	ND		0.00050
Dibromochloromethane	ND		0.00050
1,2-Dibromoethane	ND		0.00050
Chlorobenzene	ND		0.00050
1,1,1,2-Tetrachloroethane	ND		0.00050
Bromoform	ND		0.00050
Bromobenzene	ND		0.00050
1,1,2,2-Tetrachloroethane	ND		0.00050
1,2,3-Trichloropropane	ND		0.00050
2-Chlorotoluene	ND		0.00050
4-Chlorotoluene	ND		0.00050
1,3-Dichlorobenzene	ND		0.00050
1,4-Dichlorobenzene	ND		0.00050
1,2-Dichlorobenzene	ND		0.00050
1,2-Dibromo-3-chloropropane	ND		0.0025
1,2,4-Trichlorobenzene	ND		0.00050
Hexachlorobutadiene	ND		0.0025
1,2,3-Trichlorobenzene	ND		0.00050

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	55-125
Toluene-d8	103	56-127
4-Bromofluorobenzene	95	54-130

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-008-08
 Client ID: RMW-7-10

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00055
Chloromethane	ND		0.0028
Vinyl Chloride	ND		0.00055
Bromomethane	ND		0.00055
Chloroethane	ND		0.0028
Trichlorofluoromethane	ND		0.00055
1,1-Dichloroethene	ND		0.00055
Iodomethane	ND		0.0028
Methylene Chloride	ND		0.0028
(trans) 1,2-Dichloroethene	ND		0.00055
1,1-Dichloroethane	ND		0.00055
2,2-Dichloropropane	ND		0.00055
(cis) 1,2-Dichloroethene	ND		0.00055
Bromochloromethane	ND		0.00055
Chloroform	ND		0.00055
1,1,1-Trichloroethane	ND		0.00055
Carbon Tetrachloride	ND		0.00055
1,1-Dichloropropene	ND		0.00055
1,2-Dichloroethane	ND		0.00055
Trichloroethene	ND		0.00055
1,2-Dichloropropane	ND		0.00055
Dibromomethane	ND		0.00055
Bromodichloromethane	ND		0.00055
2-Chloroethyl Vinyl Ether	ND		0.0028
(cis) 1,3-Dichloropropene	ND		0.00055
(trans) 1,3-Dichloropropene	ND		0.00055

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-008-08
 Client ID: RMW-7-10

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00055
Tetrachloroethene	ND		0.00055
1,3-Dichloropropane	ND		0.00055
Dibromochloromethane	ND		0.00055
1,2-Dibromoethane	ND		0.00055
Chlorobenzene	ND		0.00055
1,1,1,2-Tetrachloroethane	ND		0.00055
Bromoform	ND		0.00055
Bromobenzene	ND		0.00055
1,1,2,2-Tetrachloroethane	ND		0.00055
1,2,3-Trichloropropane	ND		0.00055
2-Chlorotoluene	ND		0.00055
4-Chlorotoluene	ND		0.00055
1,3-Dichlorobenzene	ND		0.00055
1,4-Dichlorobenzene	ND		0.00055
1,2-Dichlorobenzene	ND		0.00055
1,2-Dibromo-3-chloropropane	ND		0.0028
1,2,4-Trichlorobenzene	ND		0.00055
Hexachlorobutadiene	ND		0.0028
1,2,3-Trichlorobenzene	ND		0.00055

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	95	55-125
Toluene-d8	98	56-127
4-Bromofluorobenzene	87	54-130

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-008-09
 Client ID: RMW-7-15

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.00055
Chloromethane	ND		0.0027
Vinyl Chloride	ND		0.00055
Bromomethane	ND		0.00055
Chloroethane	ND		0.0027
Trichlorofluoromethane	ND		0.00055
1,1-Dichloroethene	ND		0.00055
Iodomethane	ND		0.0027
Methylene Chloride	ND		0.0027
(trans) 1,2-Dichloroethene	ND		0.00055
1,1-Dichloroethane	ND		0.00055
2,2-Dichloropropane	ND		0.00055
(cis) 1,2-Dichloroethene	ND		0.00055
Bromochloromethane	ND		0.00055
Chloroform	ND		0.00055
1,1,1-Trichloroethane	ND		0.00055
Carbon Tetrachloride	ND		0.00055
1,1-Dichloropropene	ND		0.00055
1,2-Dichloroethane	ND		0.00055
Trichloroethene	ND		0.00055
1,2-Dichloropropane	ND		0.00055
Dibromomethane	ND		0.00055
Bromodichloromethane	ND		0.00055
2-Chloroethyl Vinyl Ether	ND		0.0027
(cis) 1,3-Dichloropropene	ND		0.00055
(trans) 1,3-Dichloropropene	ND		0.00055

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 09-008-09
 Client ID: RMW-7-15

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.00055
Tetrachloroethene	ND		0.00055
1,3-Dichloropropane	ND		0.00055
Dibromochloromethane	ND		0.00055
1,2-Dibromoethane	ND		0.00055
Chlorobenzene	ND		0.00055
1,1,1,2-Tetrachloroethane	ND		0.00055
Bromoform	ND		0.00055
Bromobenzene	ND		0.00055
1,1,2,2-Tetrachloroethane	ND		0.00055
1,2,3-Trichloropropane	ND		0.00055
2-Chlorotoluene	ND		0.00055
4-Chlorotoluene	ND		0.00055
1,3-Dichlorobenzene	ND		0.00055
1,4-Dichlorobenzene	ND		0.00055
1,2-Dichlorobenzene	ND		0.00055
1,2-Dibromo-3-chloropropane	ND		0.0027
1,2,4-Trichlorobenzene	ND		0.00055
Hexachlorobutadiene	ND		0.0027
1,2,3-Trichlorobenzene	ND		0.00055

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	55-125
Toluene-d8	95	56-127
4-Bromofluorobenzene	89	54-130

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0904S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0904S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	55-125
Toluene-d8	103	56-127
4-Bromofluorobenzene	94	54-130

Date of Report: September 10, 2009
 Samples Submitted: September 1, 2009
 Laboratory Reference: 0909-008
 Project: Bothell RI/FS; Riverside

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 9-4-09
 Date Analyzed: 9-4-09

 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0904S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0435	87	0.0407	81	70-130	
Benzene	0.0500	0.0436	87	0.0413	83	70-128	
Trichloroethene	0.0500	0.0429	86	0.0422	84	70-124	
Toluene	0.0500	0.0445	89	0.0434	87	73-123	
Chlorobenzene	0.0500	0.0446	89	0.0435	87	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	7	16	
Benzene	5	15	
Trichloroethene	2	14	
Toluene	3	14	
Chlorobenzene	2	13	

Date of Report: September 10, 2009
Samples Submitted: September 1, 2009
Laboratory Reference: 0909-008
Project: Bothell RI/FS; Riverside

% MOISTURE

Date Analyzed: 9-2&3-09

Client ID	Lab ID	% Moisture
RMW-8-10	09-008-01	28
RMW-8-15	09-008-02	37
RMW-8-20	09-008-03	72
RMW-8-22½	09-008-04	21
RMW-9-20	09-008-05	19
Dup-090109	09-008-06	19
RMW-7-5	09-008-07	6
RMW-7-10	09-008-08	8
RMW-7-15	09-008-09	9
RMW-7-17½	09-008-10	10



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-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



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

September 15, 2009

Scott Elkind
Parametrix
411 108th Avenue NE, Suite 1800
Bellevue, WA 98004

Re: Analytical Data for Project 555-1647-019 02/0303
Laboratory Reference No. 0909-044

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 3, 2009.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

Case Narrative

Samples were collected on September 3, 2009, and received by the laboratory on September 3, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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.

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

NWTPH-Dx

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	R-12-4	R-13-4	R-14-4
Lab ID:	09-044-01	09-044-02	09-044-03
Diesel Range:	ND	ND	73
PQL:	95	85	28
Identification:	---	---	Diesel Range Organics
Lube Oil Range:	870	760	750
PQL:	57	58	57
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	132%	116%	107%
Flags:	Y,U1	Y,U1	Y,N

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

NWTPH-Dx

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	R-15-2	R-15-4	R-16-4
Lab ID:	09-044-04	09-044-05	09-044-06
Diesel Range:	ND	ND	29
PQL:	480	100	28
Identification:	---	---	Diesel Range Organics
Lube Oil Range:	6300	850	300
PQL:	290	57	56
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	95%	116%	119%
Flags:	Y,U1	Y,U1	Y,N

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

NWTPH-Dx

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	R-17-4	R-18-4	R-19-2
Lab ID:	09-044-07	09-044-08	09-044-09
Diesel Range:	ND	100	ND
PQL:	27	28	200
Identification:	---	Diesel Range Organics	---
Lube Oil Range:	82	1200	3500
PQL:	54	56	270
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	119%	125%	114%
Flags:	Y	Y,N	Y,U1

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

NWTPH-Dx

Date Extracted: 9-8-09
 Date Analyzed: 9-8&9-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	R-19-4	R-20-4	R-21-4
Lab ID:	09-044-10	09-044-11	09-044-12
Diesel Range:	150	ND	ND
PQL:	28	27	27
Identification:	Diesel Range Organics	---	---
Lube Oil Range:	1400	ND	88
PQL:	57	54	54
Identification:	Lube Oil	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	82%	79%	83%
Flags:	Y,N	Y	Y

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

NWTPH-Dx

Date Extracted: 9-8-09
 Date Analyzed: 9-9-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	R-22-4	R-23-4	DUP-0903
Lab ID:	09-044-13	09-044-14	09-044-15
Diesel Range:	ND	ND	ND
PQL:	28	28	27
Identification:	---	---	---
Lube Oil Range:	270	ND	ND
PQL:	55	57	54
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	67%	79%	82%
Flags:	Y	Y	Y

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-8-09
Date Analyzed: 9-8-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0908S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 86%

Flags: Y

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 9-8-09
Date Analyzed: 9-8-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-044-05 09-044-05 DUP

Diesel Range: **ND** **ND**
PQL: 100 100

RPD: N/A

Surrogate Recovery
o-Terphenyl: 116% 81%

Flags: Y,U1 Y,U1

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-8-09
Date Analyzed: 9-8-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-044-07 09-044-07 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 119% 100%

Flags: Y Y

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-12-4					
Laboratory ID:	09-044-01					
Naphthalene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	0.015	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	0.0096	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	0.017	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	0.016	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	0.0082	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	0.017	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>82</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>100</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>91</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-16-4					
Laboratory ID:	09-044-06					
Naphthalene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	0.0086	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	0.014	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	0.0098	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	0.023	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	0.024	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	0.018	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	0.026	0.0074	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>80</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>98</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>91</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-17-4					
Laboratory ID:	09-044-07					
Naphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	0.0086	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	0.0094	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	0.0080	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	0.011	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>100</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>92</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-19-2					
Laboratory ID:	09-044-09					
Naphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	0.0084	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	0.029	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	0.014	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	0.075	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	0.022	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	0.059	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	0.044	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	0.011	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	0.022	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	0.071	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>94</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>80</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-19-4					
Laboratory ID:	09-044-10					
Naphthalene	0.015	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	0.032	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	0.020	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	0.013	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	0.017	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	0.022	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	0.0086	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	0.018	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	0.024	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	0.013	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	0.0082	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	0.017	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>105</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>89</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-20-4					
Laboratory ID:	09-044-11					
Naphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>97</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-21-4					
Laboratory ID:	09-044-12					
Naphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>84</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>107</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	R-23-4					
Laboratory ID:	09-044-14					
Naphthalene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	ND	0.0076	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>78</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>102</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>92</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup-0903					
Laboratory ID:	09-044-15					
Naphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>100</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0908S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Acenaphthene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Fluorene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Phenanthrene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Anthracene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Fluoranthene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Pyrene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Chrysene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	9-8-09	9-10-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>39 - 103</i>				
<i>Pyrene-d10</i>	<i>95</i>	<i>39 - 115</i>				
<i>Terphenyl-d14</i>	<i>95</i>	<i>50 - 118</i>				

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

**PAHs by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Recovery	Limits	Limit		
MATRIX SPIKES											
Laboratory ID:	09-044-11										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0626	0.0635	0.0833	0.0833	ND	75	76	29 - 104	1	27	
Acenaphthylene	0.0825	0.0823	0.0833	0.0833	ND	99	99	44 - 111	0	20	
Acenaphthene	0.0666	0.0666	0.0833	0.0833	ND	80	80	45 - 108	0	19	
Fluorene	0.0718	0.0718	0.0833	0.0833	ND	86	86	49 - 113	0	16	
Phenanthrene	0.0673	0.0688	0.0833	0.0833	ND	81	83	43 - 124	2	36	
Anthracene	0.0835	0.0858	0.0833	0.0833	ND	100	103	51 - 115	3	17	
Fluoranthene	0.0837	0.0855	0.0833	0.0833	ND	100	103	42 - 140	2	27	
Pyrene	0.0775	0.0794	0.0833	0.0833	ND	93	95	40 - 140	2	30	
Benzo[a]anthracene	0.0867	0.0896	0.0833	0.0833	ND	104	108	33 - 134	3	21	
Chrysene	0.0693	0.0712	0.0833	0.0833	ND	83	85	32 - 141	3	21	
Benzo[b]fluoranthene	0.0892	0.0905	0.0833	0.0833	ND	107	109	35 - 139	1	32	
Benzo[k]fluoranthene	0.0765	0.0793	0.0833	0.0833	ND	92	95	44 - 124	4	23	
Benzo[a]pyrene	0.0811	0.0834	0.0833	0.0833	ND	97	100	34 - 130	3	28	
Indeno(1,2,3-c,d)pyrene	0.0862	0.0869	0.0833	0.0833	ND	103	104	50 - 127	1	20	
Dibenz[a,h]anthracene	0.0967	0.0972	0.0833	0.0833	ND	116	117	58 - 122	1	15	
Benzo[g,h,i]perylene	0.0917	0.0921	0.0833	0.0833	ND	110	111	47 - 126	0	21	
<i>Surrogate:</i>											
2-Fluorobiphenyl						77	75	39 - 103			
Pyrene-d10						97	97	39 - 115			
Terphenyl-d14						94	95	50 - 118			

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-01

Client ID: **R-12-4**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.7
Cadmium	6010B	ND	0.57
Chromium	6010B	32	0.57
Lead	6010B	54	5.7
Mercury	7471A	0.047	0.023

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-06

Client ID: **R-16-4**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.6
Cadmium	6010B	ND	0.56
Chromium	6010B	39	0.56
Lead	6010B	37	5.6
Mercury	7471A	0.036	0.022

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-07

Client ID: **R-17-4**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.4
Cadmium	6010B	ND	0.54
Chromium	6010B	24	0.54
Lead	6010B	15	5.4
Mercury	7471A	0.022	0.022

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-09

Client ID: **R-19-2**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.4
Cadmium	6010B	ND	0.54
Chromium	6010B	15	0.54
Lead	6010B	ND	5.4
Mercury	7471A	ND	0.022

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-10

Client ID: **R-19-4**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.7
Cadmium	6010B	ND	0.57
Chromium	6010B	22	0.57
Lead	6010B	55	5.7
Mercury	7471A	0.061	0.023

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-11

Client ID: **R-20-4**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.4
Cadmium	6010B	ND	0.54
Chromium	6010B	21	0.54
Lead	6010B	ND	5.4
Mercury	7471A	ND	0.022

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-12

Client ID: **R-21-4**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.4
Cadmium	6010B	ND	0.54
Chromium	6010B	27	0.54
Lead	6010B	13	5.4
Mercury	7471A	0.036	0.022

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-14

Client ID: **R-23-4**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.7
Cadmium	6010B	ND	0.57
Chromium	6010B	40	0.57
Lead	6010B	12	5.7
Mercury	7471A	0.032	0.023

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B/7471A**

Date Extracted: 9-9&11-09

Date Analyzed: 9-9&11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-044-15

Client ID: **DUP-0903**

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.4
Cadmium	6010B	ND	0.54
Chromium	6010B	25	0.54
Lead	6010B	ND	5.4
Mercury	7471A	ND	0.022

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-11-09
Date Analyzed: 9-11-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0911S1

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.0
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-9-09
Date Analyzed: 9-9-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0909S1

Analyte	Method	Result	PQL
Mercury	7471A	ND	0.020

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 6010B
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-11-09
Date Analyzed: 9-11-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-057-07

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	5.0	
Cadmium	1.03	0.917	12	0.50	
Chromium	39.5	35.6	11	0.50	
Lead	72.1	72.9	1	5.0	

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 7471A
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-9-09

Date Analyzed: 9-9-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-060-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	0.0464	NA	0.020	

Date of Report: September 15, 2009
 Samples Submitted: September 3, 2009
 Laboratory Reference: 0909-044
 Project: 555-1647-019 02/0303

**TOTAL METALS
 EPA 6010B
 MS/MSD QUALITY CONTROL**

Date Extracted: 9-11-09

Date Analyzed: 9-11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-057-07

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	95.7	96	94.8	95	1	
Cadmium	50	47.9	94	49.6	97	4	
Chromium	100	150	111	143	103	5	
Lead	250	287	86	302	92	5	

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

**TOTAL METALS
EPA 7471A
MS/MSD QUALITY CONTROL**

Date Extracted: 9-9-09

Date Analyzed: 9-9-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-060-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.50	0.509	102	0.533	107	5	

Date of Report: September 15, 2009
Samples Submitted: September 3, 2009
Laboratory Reference: 0909-044
Project: 555-1647-019 02/0303

% MOISTURE

Date Analyzed: 9-8&9-09

Client ID	Lab ID	% Moisture
R-12-4	09-044-01	12
R-13-4	09-044-02	14
R-14-4	09-044-03	12
R-15-2	09-044-04	14
R-15-4	09-044-05	12
R-16-4	09-044-06	10
R-17-4	09-044-07	8
R-18-4	09-044-08	11
R-19-2	09-044-09	7
R-19-4	09-044-10	12
R-20-4	09-044-11	7
R-21-4	09-044-12	7
R-22-4	09-044-13	9
R-23-4	09-044-14	12
DUP-0903	09-044-15	8



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Laboratory Number:

09-044

 Turnaround Request
(in working days)

(Check One)

- Same Day 1 Day
 2 Day 3 Day
 Standard (7 working days)
 (TPH analysis 5 working days)

 (other)

Requested Analysis

 Company: Parametrix
 Project Number: 555-1647-019 02/0303
 Project Name: Bothell Crossing Riverside
 Project Manager: Scott Elkind
 Sampled by: L. Vogelatos

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (6)	TCLP Metals	HEM by 1664	E-TPH (VPH & EPH)	MTCA Metals: As, Cr, Cd, Hg, Pb	% Moisture	
1	R-12-4	9/3/09	1100	soil	3			X				X							X	X		X
2	R-13-4		1050		1																	
3	R-14-4		1040		1																	
4	R-15-2		1136		1																	
5	R-15-4		1120		1																	
6	R-16-4		1030		3							X								X		
7	R-17-4		1140		43							X								X		
8	R-18-4		1130		1																	
9	R-19-2		1205		3							X								X		
10	R-19-4		1200		3							X								X		

Signature	Company	Date	Time	Comments/Special Instructions
<u>Lily Vogelatos</u>	<u>Parametrix</u>	<u>9/3/09</u>	<u>1515</u>	
<u>Edith K. Bus</u>	<u>Speedy Mess.</u>	<u>9/03/09</u>	<u>15:15</u>	
<u>Edith K. Bus</u>	<u>Speedy Mess.</u>	<u>09/03/09</u>	<u>15:32</u>	
<u>[Signature]</u>	<u>[Signature]</u>	<u>9/3/09</u>	<u>1532</u>	
Reviewed by/Date	Reviewed by/Date	Chromatograms with final report <input type="checkbox"/>		

Chain of Custody

Company: Parametrix

Project Number: 555-1647-019

Project Name: Bathell Crossing Riverside

Project Manager: Scott Elkind

Sampled by: L. Vagelatos

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Laboratory Number: 09-044

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	E-TPH, HOLD	MTCR Metals: As, Cd, Cr, Hg, Pb	% Moisture	
11	R-20-4	9/3/09	1215	S	3			X				X							X	X		X
12	R-21-4	↓	1230	↓	3			↓				X							↓	X		↓
13	R-22-4	↓	1240	↓	1			↓											↓			↓
14	R-23-4	↓	1020	↓	3			↓				X							↓	X		↓
15	Dup-0903	↓	1218	↓	3			↓				X							↓	X		↓

Signature	Company	Date	Time	Comments/Special Instructions
<u>Lily Vagelatos</u>	<u>Parametrix</u>	<u>9/3/09</u>	<u>1515</u>	
<u>Edith K. Zus</u>	<u>Speedy Mess.</u>	<u>9/03/09</u>	<u>15:15</u>	
<u>Edith K. Zus</u>	<u>Speedy M.</u>	<u>09/03/09</u>	<u>15:32</u>	
<u>[Signature]</u>	<u>[Signature]</u>	<u>9/3/09</u>	<u>1532</u>	
Reviewed by/Date	Reviewed by/Date	Chromatograms with final report <input type="checkbox"/>		



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

September 11, 2009

Scott Elkind
Parametrix
411 108th Avenue NE, Suite 1800
Bellevue, WA 98004

Re: Analytical Data for Project 555-1647-019- 02/0303
Laboratory Reference No. 0909-056

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 4, 2009.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 11, 2009
Samples Submitted: September 4, 2009
Laboratory Reference: 0909-056
Project: 555-1647-019- 02/0303

Case Narrative

Samples were collected on September 4, 2009, and received by the laboratory on September 4, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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.

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

NWTPH-Gx/BTEX

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09

Matrix: Water
 Units: ug/L (ppb)

Client ID: R-24-30 TRIP BLANK
 Lab ID: 09-056-01 09-056-02

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		1.0	ND		1.0
Toluene	ND		1.0	ND		1.0
Ethyl Benzene	ND		1.0	ND		1.0
m,p-Xylene	ND		1.0	ND		1.0
o-Xylene	ND		1.0	ND		1.0
TPH-Gas	ND		100	ND		100
Surrogate Recovery:						
Fluorobenzene	85%			91%		

Date of Report: September 11, 2009
Samples Submitted: September 4, 2009
Laboratory Reference: 0909-056
Project: 555-1647-019- 02/0303

NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-8-09
Date Analyzed: 9-8-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0908W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Surrogate Recovery:			
Fluorobenzene	88%		

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID:	09-056-01 Original	09-056-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	85%	85%		

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

NWTPH-Gx/BTEX
 SB/SBD QUALITY CONTROL

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09

Matrix: Water
 Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	SB0908W1 SB	Percent Recovery	SBD0908W1 SBD	Percent Recovery	RPD	Flags
Benzene	48.9	98	48.7	97	0	
Toluene	47.4	95	47.0	94	1	
Ethyl Benzene	46.5	93	46.3	93	1	
m,p-Xylene	46.8	94	46.3	93	1	
o-Xylene	47.3	95	47.0	94	1	
Surrogate Recovery: Fluorobenzene	90%		89%			

Date of Report: September 11, 2009
Samples Submitted: September 4, 2009
Laboratory Reference: 0909-056
Project: 555-1647-019- 02/0303

NWTPH-Dx

Date Extracted: 9-8-09
Date Analyzed: 9-9-09

Matrix: Water
Units: mg/L (ppm)

Client ID: R-24-30
Lab ID: 09-056-01

Diesel Range: ND
PQL: 0.29
Identification: ---

Lube Oil Range: ND
PQL: 0.46
Identification: ---

Surrogate Recovery
o-Terphenyl: 93%

Flags: Y

Date of Report: September 11, 2009
Samples Submitted: September 4, 2009
Laboratory Reference: 0909-056
Project: 555-1647-019- 02/0303

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-8-09
Date Analyzed: 9-9-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0908W1

Diesel Range: ND
PQL: 0.25
Identification: ---

Lube Oil Range: ND
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 73%

Flags: Y

Date of Report: September 11, 2009
Samples Submitted: September 4, 2009
Laboratory Reference: 0909-056
Project: 555-1647-019- 02/0303

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 9-8-09
Date Analyzed: 9-9-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: 09-058-02 09-058-02 DUP

Diesel Range: ND ND
PQL: 0.26 0.26

RPD: N/A

Surrogate Recovery
o-Terphenyl: 77% 88%

Flags: Y Y

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

HALOGENATED VOLATILES by EPA 8260B
 Page 1 of 2

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 09-056-01
 Client ID: R-24-30

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 09-056-01
 Client ID: R-24-30

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
Surrogate	Percent Recovery		Control Limits
Dibromofluoromethane	86		71-126
Toluene-d8	93		76-116
4-Bromofluorobenzene	92		70-123

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

HALOGENATED VOLATILES by EPA 8260B
 Page 1 of 2

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 09-056-02
 Client ID: TRIP BLANK

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 09-056-02
 Client ID: TRIP BLANK

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	85	71-126
Toluene-d8	92	76-116
4-Bromofluorobenzene	90	70-123

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL
 Page 1 of 2

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0908W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Lab ID: MB0908W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	85	71-126
Toluene-d8	91	76-116
4-Bromofluorobenzene	91	70-123

Date of Report: September 11, 2009
 Samples Submitted: September 4, 2009
 Laboratory Reference: 0909-056
 Project: 555-1647-019- 02/0303

HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL

Date Extracted: 9-8-09
 Date Analyzed: 9-8-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0908W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	9.56	96	9.77	98	70-130	
Benzene	10.0	9.69	97	9.91	99	70-130	
Trichloroethene	10.0	9.92	99	9.95	100	70-123	
Toluene	10.0	9.93	99	10.0	100	77-120	
Chlorobenzene	10.0	10.2	102	10.0	100	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	2	21	
Benzene	2	18	
Trichloroethene	0	18	
Toluene	1	17	
Chlorobenzene	2	18	



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Turnaround Request (in working days)	
(Check One)	
<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day
<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day
<input checked="" type="checkbox"/> Standard (7 working days) (TPH analysis 5 working days)	
<input type="checkbox"/> (other)	

Laboratory Number: **09-056**

Requested Analysis													

Company: **Parametrix**

Project Number: **555-1647-019 02/0303**

Project Name: **Bothell Crossing Landing ^{Riverside}**

Project Manager: **Scott Elkind**

Sampled by: **L. Vagelatos**

Label	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GxBTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture	
1	R-24-30	9/4/09	1045	H ₂ O	7	X	X		X											
2	TRIP BLANK	9/4/09	0000	H ₂ O	2	X			X											

Signature	Company	Date	Time	Comments/Special Instructions:
Relinquished by: <i>Lily Vagelatos</i>	Parametrix	9/4/09	1645	
Received by: <i>[Signature]</i>	COBRE	9/4/09	1645	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				
Reviewed by/Date	Reviewed by/Date	Chromatograms with final report <input type="checkbox"/>		



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

September 17, 2009

David Dinkuhn
Parametrix, Inc.
4660 Kitsap Way, Suite A
Bremerton, WA 98312

Re: Analytical Data for Project 555-1647-019 02/0303 / Riverside
Laboratory Reference No. 0909-081

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on September 9, 2009.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 17, 2009
Samples Submitted: September 9, 2009
Laboratory Reference: 0909-081
Project: 555-1647-019 02/0303 / Riverside

Case Narrative

Samples were collected on September 9, 2009, and received by the laboratory on September 9, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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/BTEX 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.

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.

Halogenated Volatiles EPA 8260B 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.

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.

Date of Report: September 17, 2009
Samples Submitted: September 9, 2009
Laboratory Reference: 0909-081
Project: 555-1647-019 02/0303 / Riverside

NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-11-09
Date Analyzed: 9-11-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0911S1

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		2.5
Surrogate Recovery: Fluorobenzene	90%		

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL

Date Extracted: 9-11-09

Date Analyzed: 9-11-09

Matrix: Soil

Units: mg/kg (ppm)

Lab ID:	09-081-01 Original	09-081-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	110%	109%		

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

NWTPH-Gx/BTEX
 SB/SBD QUALITY CONTROL

Date Extracted: 9-11-09

Date Analyzed: 9-11-09

Matrix: Soil

Units: mg/kg (ppm)

Spike Level: 1.00 ppm

Lab ID:	SB0911S1 SB	Percent Recovery	SBD0911S1 SBD	Percent Recovery	RPD	Flags
Benzene	0.972	97	0.955	96	2	
Toluene	1.06	106	1.01	101	5	
Ethyl Benzene	1.01	101	0.993	99	2	
m,p-Xylene	1.09	109	1.05	105	4	
o-Xylene	1.03	103	1.01	101	2	

Surrogate Recovery:

Fluorobenzene 94% 93%

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

NWTPH-Dx

Date Extracted: 9-11-09
 Date Analyzed: 9-11-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	RSS-1 0-6"	RSS-2 0-6"
Lab ID:	09-081-01	09-081-02

Diesel Range:	ND	ND
PQL:	37	34
Identification:	---	---

Lube Oil Range:	410	540
PQL:	74	68
Identification:	Lube Oil	Lube Oil

Surrogate Recovery		
o-Terphenyl:	71%	60%

Flags:	Y	Y
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Date of Report: September 17, 2009
Samples Submitted: September 9, 2009
Laboratory Reference: 0909-081
Project: 555-1647-019 02/0303 / Riverside

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-11-09
Date Analyzed: 9-11-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0911S1

Diesel Range: ND

PQL: 25

Identification: ---

Lube Oil Range: ND

PQL: 50

Identification: ---

Surrogate Recovery

o-Terphenyl: 80%

Flags: Y

Date of Report: September 17, 2009
Samples Submitted: September 9, 2009
Laboratory Reference: 0909-081
Project: 555-1647-019 02/0303 / Riverside

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 9-11-09
Date Analyzed: 9-11-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-100-01 09-100-01 DUP

Diesel Range: ND ND
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 101% 83%

Flags: Y Y

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 Page 1 of 2

Date Extracted: 9-9-09
 Date Analyzed: 9-9-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-081-01
 Client ID: RSS-1 0-6"

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0012
Chloromethane	ND		0.0062
Vinyl Chloride	ND		0.0012
Bromomethane	ND		0.0012
Chloroethane	ND		0.0062
Trichlorofluoromethane	ND		0.0012
1,1-Dichloroethene	ND		0.0012
Iodomethane	ND		0.0062
Methylene Chloride	ND		0.0062
(trans) 1,2-Dichloroethene	ND		0.0012
1,1-Dichloroethane	ND		0.0012
2,2-Dichloropropane	ND		0.0012
(cis) 1,2-Dichloroethene	ND		0.0012
Bromochloromethane	ND		0.0012
Chloroform	ND		0.0012
1,1,1-Trichloroethane	ND		0.0012
Carbon Tetrachloride	ND		0.0012
1,1-Dichloropropene	ND		0.0012
1,2-Dichloroethane	ND		0.0012
Trichloroethene	ND		0.0012
1,2-Dichloropropane	ND		0.0012
Dibromomethane	ND		0.0012
Bromodichloromethane	ND		0.0012
2-Chloroethyl Vinyl Ether	ND		0.0062
(cis) 1,3-Dichloropropene	ND		0.0012
(trans) 1,3-Dichloropropene	ND		0.0012

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 09-081-01
 Client ID: RSS-1 0-6"

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0012
Tetrachloroethene	ND		0.0012
1,3-Dichloropropane	ND		0.0012
Dibromochloromethane	ND		0.0012
1,2-Dibromoethane	ND		0.0012
Chlorobenzene	ND		0.0012
1,1,1,2-Tetrachloroethane	ND		0.0012
Bromoform	ND		0.0012
Bromobenzene	ND		0.0012
1,1,2,2-Tetrachloroethane	ND		0.0012
1,2,3-Trichloropropane	ND		0.0012
2-Chlorotoluene	ND		0.0012
4-Chlorotoluene	ND		0.0012
1,3-Dichlorobenzene	ND		0.0012
1,4-Dichlorobenzene	ND		0.0012
1,2-Dichlorobenzene	ND		0.0012
1,2-Dibromo-3-chloropropane	ND		0.0062
1,2,4-Trichlorobenzene	ND		0.0012
Hexachlorobutadiene	ND		0.0062
1,2,3-Trichlorobenzene	ND		0.0012

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	99	55-125
Toluene-d8	96	56-127
4-Bromofluorobenzene	73	54-130

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 Page 1 of 2

Date Extracted: 9-9-09
 Date Analyzed: 9-9-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 09-081-02
 Client ID: RSS-2 0-6"

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0012
Chloromethane	ND		0.0059
Vinyl Chloride	ND		0.0012
Bromomethane	ND		0.0012
Chloroethane	ND		0.0059
Trichlorofluoromethane	ND		0.0012
1,1-Dichloroethene	ND		0.0012
Iodomethane	ND		0.0059
Methylene Chloride	ND		0.0059
(trans) 1,2-Dichloroethene	ND		0.0012
1,1-Dichloroethane	ND		0.0012
2,2-Dichloropropane	ND		0.0012
(cis) 1,2-Dichloroethene	ND		0.0012
Bromochloromethane	ND		0.0012
Chloroform	ND		0.0012
1,1,1-Trichloroethane	ND		0.0012
Carbon Tetrachloride	ND		0.0012
1,1-Dichloropropene	ND		0.0012
1,2-Dichloroethane	ND		0.0012
Trichloroethene	ND		0.0012
1,2-Dichloropropane	ND		0.0012
Dibromomethane	ND		0.0012
Bromodichloromethane	ND		0.0012
2-Chloroethyl Vinyl Ether	ND		0.0059
(cis) 1,3-Dichloropropene	ND		0.0012
(trans) 1,3-Dichloropropene	ND		0.0012

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 09-081-02
 Client ID: RSS-2 0-6"

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0012
Tetrachloroethene	ND		0.0012
1,3-Dichloropropane	ND		0.0012
Dibromochloromethane	ND		0.0012
1,2-Dibromoethane	ND		0.0012
Chlorobenzene	ND		0.0012
1,1,1,2-Tetrachloroethane	ND		0.0012
Bromoform	ND		0.0012
Bromobenzene	ND		0.0012
1,1,2,2-Tetrachloroethane	ND		0.0012
1,2,3-Trichloropropane	ND		0.0012
2-Chlorotoluene	ND		0.0012
4-Chlorotoluene	ND		0.0012
1,3-Dichlorobenzene	ND		0.0012
1,4-Dichlorobenzene	ND		0.0012
1,2-Dichlorobenzene	ND		0.0012
1,2-Dibromo-3-chloropropane	ND		0.0059
1,2,4-Trichlorobenzene	ND		0.0012
Hexachlorobutadiene	ND		0.0059
1,2,3-Trichlorobenzene	ND		0.0012
	Percent		Control
Surrogate	Recovery		Limits
Dibromofluoromethane	98		55-125
Toluene-d8	95		56-127
4-Bromofluorobenzene	72		54-130

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL
 Page 1 of 2

Date Extracted: 9-9-09
 Date Analyzed: 9-9-09
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0909S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Lab ID: MB0909S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010
	Percent		Control
Surrogate	Recovery		Limits
Dibromofluoromethane	103		55-125
Toluene-d8	102		56-127
4-Bromofluorobenzene	97		54-130

Date of Report: September 17, 2009
 Samples Submitted: September 9, 2009
 Laboratory Reference: 0909-081
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL

Date Extracted: 9-9-09
 Date Analyzed: 9-9-09
 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0909S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0436	87	0.0453	91	70-130	
Benzene	0.0500	0.0431	86	0.0438	88	70-128	
Trichloroethene	0.0500	0.0415	83	0.0425	85	70-124	
Toluene	0.0500	0.0424	85	0.0436	87	73-123	
Chlorobenzene	0.0500	0.0431	86	0.0430	86	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	4	16	
Benzene	2	15	
Trichloroethene	2	14	
Toluene	3	14	
Chlorobenzene	0	13	

Date of Report: September 17, 2009
Samples Submitted: September 9, 2009
Laboratory Reference: 0909-081
Project: 555-1647-019 02/0303 / Riverside

% MOISTURE

Date Analyzed: 9-9-09

Client ID	Lab ID	% Moisture
RSS-1 0-6"	09-081-01	32
RSS-2 0-6"	09-081-02	27



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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

September 25, 2009

Scott Elkind
Parametrix
411 108th Avenue NE, Suite 1800
Bellevue, WA 98004

Re: Analytical Data for Project 555-1647-019 02/0303 Riverside
Laboratory Reference No. 0909-130

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 15, 2009.

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,

A handwritten signature in black ink, appearing to read 'D. Baumeister', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Laboratory Reference: 0909-130
Project: 555-1647-019 02/0303 Riverside

Case Narrative

Samples were collected on September 14 and 15, 2009, and received by the laboratory on September 15, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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.

PAHs EPA 8270D/SIM Analysis

The method blank detected a recovery for Benzo[a]anthracene. The samples did not detect a recovery for that compound, no further action was taken.

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.

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

NWTPH-Dx

Date Extracted: 8-17-09
 Date Analyzed: 8-17-09

Matrix: Water
 Units: mg/L (ppm)

Client ID:	RMW-4-13	RMW-5-15	BC-5-14
Lab ID:	09-130-01	09-130-03	09-130-05
Diesel Range:	ND	ND	ND
PQL:	0.29	0.27	0.27
Identification:	---	---	---
Lube Oil Range:	ND	ND	ND
PQL:	0.47	0.43	0.44
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	80%	88%	89%
Flags:	Y	Y	Y

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Laboratory Reference: 0909-130
Project: 555-1647-019 02/0303 Riverside

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-17-09
Date Analyzed: 8-17-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0917W1

Diesel Range: **ND**
PQL: 0.25
Identification: ---

Lube Oil Range: **ND**
PQL: 0.40
Identification: ---

Surrogate Recovery
o-Terphenyl: 73%

Flags: Y

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Laboratory Reference: 0909-130
Project: 555-1647-019 02/0303 Riverside

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-17-09
Date Analyzed: 8-17-09

Matrix: Water
Units: mg/L (ppm)

Lab ID: 09-130-01 09-130-01 DUP

Diesel Range: **ND** **ND**
PQL: 0.29 0.27

RPD: N/A

Surrogate Recovery
o-Terphenyl: 80% 79%

Flags: Y Y

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-130-02
 Client ID: RMW-6-15

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	5.3		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	3.6		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	0.27		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 09-130-02
 Client ID: RMW-6-15

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	71-126
Toluene-d8	92	76-116
4-Bromofluorobenzene	83	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-130-04
 Client ID: RMW-11-22

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 09-130-04
 Client ID: RMW-11-22

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	95	71-126
Toluene-d8	93	76-116
4-Bromofluorobenzene	82	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-130-06
 Client ID: **RMW-10-32**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 09-130-06
 Client ID: **RMW-10-32**

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.24		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	94		71-126
Toluene-d8	94		76-116
4-Bromofluorobenzene	80		70-123

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-130-07
 Client ID: BC-3-18

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		1.0
Chloromethane	ND		5.0
Vinyl Chloride	ND		1.0
Bromomethane	ND		1.0
Chloroethane	ND		5.0
Trichlorofluoromethane	ND		1.0
1,1-Dichloroethene	ND		1.0
Iodomethane	ND		5.0
Methylene Chloride	ND		5.0
(trans) 1,2-Dichloroethene	ND		1.0
1,1-Dichloroethane	ND		1.0
2,2-Dichloropropane	ND		1.0
(cis) 1,2-Dichloroethene	49		1.0
Bromochloromethane	ND		1.0
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		1.0
Carbon Tetrachloride	ND		1.0
1,1-Dichloropropene	ND		1.0
1,2-Dichloroethane	ND		1.0
Trichloroethene	120		1.0
1,2-Dichloropropane	ND		1.0
Dibromomethane	ND		1.0
Bromodichloromethane	ND		1.0
2-Chloroethyl Vinyl Ether	ND		5.0
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		1.0

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

Lab ID: 09-130-07
 Client ID: BC-3-18

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		1.0
Tetrachloroethene	130		1.0
1,3-Dichloropropane	ND		1.0
Dibromochloromethane	ND		1.0
1,2-Dibromoethane	ND		1.0
Chlorobenzene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
Bromoform	ND		5.0
Bromobenzene	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,2,3-Trichloropropane	ND		1.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dibromo-3-chloropropane	ND		5.0
1,2,4-Trichlorobenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	92	71-126
Toluene-d8	93	76-116
4-Bromofluorobenzene	80	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-130-08
 Client ID: RMW-7-21

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		1.0
Chloromethane	ND		5.0
Vinyl Chloride	22		1.0
Bromomethane	ND		1.0
Chloroethane	ND		5.0
Trichlorofluoromethane	ND		1.0
1,1-Dichloroethene	ND		1.0
Iodomethane	ND		5.0
Methylene Chloride	ND		5.0
(trans) 1,2-Dichloroethene	2.0		1.0
1,1-Dichloroethane	ND		1.0
2,2-Dichloropropane	ND		1.0
(cis) 1,2-Dichloroethene	190		1.0
Bromochloromethane	ND		1.0
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		1.0
Carbon Tetrachloride	ND		1.0
1,1-Dichloropropene	ND		1.0
1,2-Dichloroethane	ND		1.0
Trichloroethene	120		1.0
1,2-Dichloropropane	ND		1.0
Dibromomethane	ND		1.0
Bromodichloromethane	ND		1.0
2-Chloroethyl Vinyl Ether	ND		5.0
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		1.0

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 09-130-08
 Client ID: **RMW-7-21**

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		1.0
Tetrachloroethene	50		1.0
1,3-Dichloropropane	ND		1.0
Dibromochloromethane	ND		1.0
1,2-Dibromoethane	ND		1.0
Chlorobenzene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
Bromoform	ND		5.0
Bromobenzene	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,2,3-Trichloropropane	ND		1.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dibromo-3-chloropropane	ND		5.0
1,2,4-Trichlorobenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	71-126
Toluene-d8	94	76-116
4-Bromofluorobenzene	81	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0917W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	3.0		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Lab ID: MB0917W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	71-126
Toluene-d8	94	76-116
4-Bromofluorobenzene	81	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09
 Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0917W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	9.25	93	9.04	90	70-130	
Benzene	10.0	10.1	101	10.1	101	70-130	
Trichloroethene	10.0	10.1	101	9.94	99	70-123	
Toluene	10.0	10.4	104	10.4	104	77-120	
Chlorobenzene	10.0	9.88	99	9.84	98	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	2	21	
Benzene	0	18	
Trichloroethene	2	18	
Toluene	0	17	
Chlorobenzene	0	18	

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

PAHs by EPA 8270D/SIM

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RMW-4-13					
Laboratory ID:	09-130-01					
Naphthalene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Fluorene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Anthracene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Pyrene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Chrysene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>35 - 100</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>27 - 108</i>				
<i>Terphenyl-d14</i>	<i>88</i>	<i>36 - 125</i>				

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

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

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0918W1					
Naphthalene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Acenaphthylene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Acenaphthene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Fluorene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Phenanthrene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Anthracene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Fluoranthene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Pyrene	ND	0.10	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[a]anthracene	0.013	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Chrysene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	9-18-09	9-19-09	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>35 - 100</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>27 - 108</i>				
<i>Terphenyl-d14</i>	<i>87</i>	<i>36 - 125</i>				

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Laboratory Reference: 0909-130
 Project: 555-1647-019 02/0303 Riverside

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD Limit	Flags
					SB	SBD	Limits			
SPIKE BLANKS										
Laboratory ID:	SB0918W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.400	0.396	0.500	0.500	80	79	35 - 111	1	30	
Acenaphthylene	0.388	0.399	0.500	0.500	78	80	30 - 109	3	30	
Acenaphthene	0.382	0.392	0.500	0.500	76	78	46 - 101	3	29	
Fluorene	0.409	0.409	0.500	0.500	82	82	50 - 104	0	25	
Phenanthrene	0.413	0.396	0.500	0.500	83	79	55 - 97	4	23	
Anthracene	0.433	0.417	0.500	0.500	87	83	49 - 101	4	32	
Fluoranthene	0.431	0.438	0.500	0.500	86	88	59 - 102	2	23	
Pyrene	0.439	0.445	0.500	0.500	88	89	62 - 104	1	22	
Benzo[a]anthracene	0.417	0.436	0.500	0.500	83	87	57 - 100	4	25	
Chrysene	0.421	0.441	0.500	0.500	84	88	58 - 103	5	25	
Benzo[b]fluoranthene	0.447	0.465	0.500	0.500	89	93	61 - 100	4	27	
Benzo[k]fluoranthene	0.437	0.436	0.500	0.500	87	87	53 - 103	0	30	
Benzo[a]pyrene	0.431	0.438	0.500	0.500	86	88	35 - 107	2	32	
Indeno(1,2,3-c,d)pyrene	0.406	0.404	0.500	0.500	81	81	47 - 105	0	34	
Dibenz[a,h]anthracene	0.391	0.384	0.500	0.500	78	77	39 - 108	2	33	
Benzo[g,h,i]perylene	0.397	0.397	0.500	0.500	79	79	41 - 104	0	40	
<i>Surrogate:</i>										
2-Fluorobiphenyl					73	76	35 - 100			
Pyrene-d10					82	78	27 - 108			
Terphenyl-d14					91	81	36 - 125			

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Lab Traveler: 0909-130
 Project: 555-1647-019 02/0303 Riverside

**BTEX
 EPA 8021B**

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Client ID:	RMW-4-13	RMW-5-15
Lab ID:	09-130-01	09-130-03

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		1.0	ND		1.0
Toluene	ND		1.0	ND		1.0
Ethyl Benzene	ND		1.0	ND		1.0
m,p-Xylene	ND		1.0	ND		1.0
o-Xylene	ND		1.0	ND		1.0
Surrogate Recovery:						
Fluorobenzene	102%			102%		

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Lab Traveler: 0909-130
Project: 555-1647-019 02/0303 Riverside

**BTEX
EPA 8021B**

Date Extracted: 9-17-09
Date Analyzed: 9-17-09

Matrix: Water
Units: ug/L (ppb)

Client ID: **BC-5-14**
Lab ID: 09-130-05

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
Surrogate Recovery: Fluorobenzene	102%		

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Lab Traveler: 0909-130
Project: 555-1647-019 02/0303 Riverside

**BTEX
EPA 8021B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-17-09
Date Analyzed: 9-17-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0917W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0

Surrogate Recovery:
Fluorobenzene 103%

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Lab Traveler: 0909-130
 Project: 555-1647-019 02/0303 Riverside

**BTEX
 EPA 8021B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID:	09-130-01 Original	09-130-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
Surrogate Recovery: Fluorobenzene	102%	101%		

Date of Report: September 25, 2009
 Samples Submitted: September 15, 2009
 Lab Traveler: 0909-130
 Project: 555-1647-019 02/0303 Riverside

**BTEX
 EPA 8021B
 SB/SBD QUALITY CONTROL**

Date Extracted: 9-17-09
 Date Analyzed: 9-17-09

Matrix: Water
 Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	SB0917W1 SB	Percent Recovery	SBD0917W1 SBD	Percent Recovery	RPD	Flags
Benzene	48.5	97	49.6	99	2	
Toluene	54.2	108	55.2	110	2	
Ethyl Benzene	57.3	115	58.4	117	2	
m,p-Xylene	57.7	115	58.8	118	2	
o-Xylene	57.5	115	58.7	117	2	

Surrogate Recovery:
 Fluorobenzene 104% 105%

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Laboratory Reference: 0909-130
Project: 555-1647-019 02/0303 Riverside

**DISSOLVED ARSENIC
EPA 200.8**

Date Analyzed: 9-23-09

Matrix: Water

Units: ug/L (ppb)

Client ID	Lab ID	Result	PQL
RMW-6-15	09-130-02	5.1	3.0
BC-5-14	09-130-05	6.6	3.0
RMW-10-32	09-130-06	4.7	3.0
RMW-7-21	09-130-08	4.0	3.0

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Laboratory Reference: 0909-130
Project: 555-1647-019 02/0303 Riverside

**DISSOLVED ARSENIC
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 9-23-09
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0923D1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Laboratory Reference: 0909-130
Project: 555-1647-019 02/0303 Riverside

**DISSOLVED ARSENIC
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Analyzed: 9-23-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 09-130-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	5.08	4.90	4	3.0	

Date of Report: September 25, 2009
Samples Submitted: September 15, 2009
Laboratory Reference: 0909-130
Project: 555-1647-019 02/0303 Riverside

**DISSOLVED ARSENIC
EPA 200.8
MS/MSD QUALITY CONTROL**

Date Analyzed: 9-23-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: 09-130-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	227	111	224	109	2	



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Company: Parametrix Project Number: 555-1647-019 Project Name: Bothell Crossing, Riverside Project Manager: Scott Elkind Sampled by: L. Vagelatos						Turnaround Request (In working days)		Laboratory Number: 09-130																	
						(Check One)		Requested Analysis																	
						<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Standard (7 working days) (TPH analysis 5 working days) <input type="checkbox"/> _____ (other)		NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	BTEX	Arsenic (Filtered)			% Moisture
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.																				
1	RMW-4-13	9/14/09	1012	H ₂ O	6			X			X							X							
2	RMW-6-15	9/14/09	1100	H ₂ O	4				X										X						
3	RMW-5-15	9/14/09	1145	H ₂ O	4			X										X							
4	RMW-11-22	9/14/09	1345	H ₂ O	3				X																
5	BC-5-14	9/14/09	1500	H ₂ O	6 #			X										X	X						
6	RMW-10-32	9/15/09	1110	H ₂ O	4				X										X						
7	BC3-18	9/15/09	1208	H ₂ O	3				X																
8	RMW-7-21	9/15/09	1430	H ₂ O	4				X										X						
Signature		Company				Date		Time		Comments/Special Instructions:															
Relinquished by		Parametrix				9/15/09		1530																	
Received by		OSE				9/15/09		1600																	
Relinquished by																									
Received by																									
Relinquished by																									
Received by																									
Reviewed by/Date						Reviewed by/Date						Chromatograms with final report <input type="checkbox"/>													



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

September 25, 2009

Scott Elkind
Parametrix
411 108th Avenue NE, Suite 1800
Bellevue, WA 98004

Re: Analytical Data for Project 555-1647-019 02/0303 / Riverside
Laboratory Reference No. 0909-166

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 17, 2009.

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,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 25, 2009
Samples Submitted: September 17, 2009
Laboratory Reference: 0909-166
Project: 555-1647-019 02/0303 / Riverside

Case Narrative

Samples were collected on September 15 and 17, 2009, and received by the laboratory on September 17, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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.

Date of Report: September 25, 2009
Samples Submitted: September 17, 2009
Laboratory Reference: 0909-166
Project: 555-1647-019 02/0303 / Riverside

NWTPH-Gx/BTEX

Date Extracted: 9-21-09
Date Analyzed: 9-21-09

Matrix: Water
Units: ug/L (ppb)

Client ID: TRIP BLANK
Lab ID: 09-166-04

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	98%		

Date of Report: September 25, 2009
Samples Submitted: September 17, 2009
Laboratory Reference: 0909-166
Project: 555-1647-019 02/0303 / Riverside

NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-21-09
Date Analyzed: 9-21-09

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0921W2

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Surrogate Recovery:			
Fluorobenzene	98%		

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL

Date Extracted: 9-21-09
 Date Analyzed: 9-21-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID:	09-172-02 Original	09-172-02 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	99%	98%		

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

NWTPH-Gx/BTEX
 SB/SBD QUALITY CONTROL

Date Extracted: 9-21-09
 Date Analyzed: 9-21-09

Matrix: Water
 Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	SB0921W1 SB	Percent Recovery	SBD0921W1 SBD	Percent Recovery	RPD	Flags
Benzene	50.5	101	51.8	104	3	
Toluene	52.9	106	54.7	109	3	
Ethyl Benzene	55.0	110	57.2	114	4	
m,p-Xylene	56.0	112	58.0	116	4	
o-Xylene	55.7	111	57.8	116	4	
Surrogate Recovery: Fluorobenzene	101%		99%			

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 9-22-09
 Date Analyzed: 9-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-166-01
 Client ID: RMW-9-25

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	0.31		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 09-166-01
 Client ID: RMW-9-25

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	86	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	85	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 9-22-09
 Date Analyzed: 9-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-166-02
 Client ID: RMW-8-25

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	0.36		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	1.3		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	2.6		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 09-166-02
 Client ID: RMW-8-25

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.46		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	92	71-126
Toluene-d8	92	76-116
4-Bromofluorobenzene	91	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 9-22-09
 Date Analyzed: 9-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-166-03
 Client ID: RMW-8-25-2

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	0.36		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	1.3		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	2.6		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 09-166-03
 Client ID: RMW-8-25-2

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	0.48		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	88	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	87	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Date Extracted: 9-22-09
 Date Analyzed: 9-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-166-04
 Client ID: TRIP BLANK

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Lab ID: 09-166-04
 Client ID: TRIP BLANK

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	71-126
Toluene-d8	90	76-116
4-Bromofluorobenzene	91	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL
 page 1 of 2

Date Extracted: 9-22-09
 Date Analyzed: 9-22-09
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0922W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL
 page 2 of 2

Lab ID: MB0922W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	71-126
Toluene-d8	93	76-116
4-Bromofluorobenzene	94	70-123

Date of Report: September 25, 2009
 Samples Submitted: September 17, 2009
 Laboratory Reference: 0909-166
 Project: 555-1647-019 02/0303 / Riverside

HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL

Date Extracted: 9-22-09
 Date Analyzed: 9-22-09

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0922W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	9.05	91	8.29	83	70-130	
Benzene	10.0	9.72	97	9.54	95	70-130	
Trichloroethene	10.0	9.77	98	9.04	90	70-123	
Toluene	10.0	9.82	98	9.34	93	77-120	
Chlorobenzene	10.0	10.0	100	9.34	93	73-115	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	9	21	
Benzene	2	18	
Trichloroethene	8	18	
Toluene	5	17	
Chlorobenzene	7	18	



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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

April 12, 2010

David Dinkuhn
Parametrix, Inc.
4660 Kitsap Way, Suite A
Bremerton, WA 98312

Re: Analytical Data for Project 555 1647 019 07/0703
Laboratory Reference No. 1003-233

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on March 31, 2010.

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,

A handwritten signature in black ink, appearing to read 'DB' followed by a flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

Case Narrative

Samples were collected on March 31, 2010 and received by the laboratory on March 31, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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/BTEX and Halogenated Volatiles EPA 8260B Analysis (Soil)

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.

NWTPH Gx/BTEX Analysis (Water)

Sample CH-SB03-GW-0175 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

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

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-SB04-SO-0100					
Laboratory ID:	03-233-02					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.054	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.054	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.054	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.054	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	5.4	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	55-127				
Client ID:	CH-SB03-SO-0150					
Laboratory ID:	03-233-04					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.073	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.073	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.073	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.073	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	7.3	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	105	55-127				
Client ID:	CH-SB02-SO-0160					
Laboratory ID:	03-233-08					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.059	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.059	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.059	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.059	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	5.9	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	55-127				

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405S1					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.050	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.050	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.050	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.050	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	5.0	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	101	55-127				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-233-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	94	55-127		

SPIKE BLANKS

Laboratory ID:	SB0405S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.831	0.869	1.00	1.00	83	87	75-113	4	9
Toluene	0.890	0.925	1.00	1.00	89	93	75-116	4	10
Ethyl Benzene	0.920	0.955	1.00	1.00	92	96	82-117	4	10
m,p-Xylene	0.918	0.949	1.00	1.00	92	95	81-122	3	10
o-Xylene	0.922	0.953	1.00	1.00	92	95	83-118	3	10
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					91	94	55-127		

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-SB03-GW-0175					
Laboratory ID:	03-233-05					
Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Toluene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
m,p-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
o-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Gasoline	ND	100	NWTPH-Gx	4-1-10	4-1-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	74-121				
Client ID:	CH-SB00-TB-0000					
Laboratory ID:	03-233-06					
Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Toluene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
m,p-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
o-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Gasoline	ND	100	NWTPH-Gx	4-1-10	4-1-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	74-121				
Client ID:	CH-SB02-GW-0175					
Laboratory ID:	03-233-09					
Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Toluene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
m,p-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
o-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Gasoline	ND	100	NWTPH-Gx	4-1-10	4-1-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	74-121				

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0401W1					
Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Toluene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-1-10	4-1-10	
m,p-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
o-Xylene	ND	1.0	EPA 8021	4-1-10	4-1-10	
Gasoline	ND	100	NWTPH-Gx	4-1-10	4-1-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	74-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-235-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	2.78	2.53	NA	NA	NA	9	30	
o-Xylene	1.59	1.46	NA	NA	NA	9	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				88	88	74-121		

MATRIX SPIKES

Laboratory ID:	03-210-21									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	53.3	56.0	50.0	50.0	2.84	101	106	78-118	5	8
Toluene	51.8	54.3	50.0	50.0	ND	104	109	81-119	5	8
Ethyl Benzene	56.0	59.8	50.0	50.0	3.29	105	113	81-121	7	8
m,p-Xylene	55.7	59.5	50.0	50.0	2.85	106	113	79-123	7	8
o-Xylene	53.3	57.1	50.0	50.0	ND	107	114	79-121	7	8
<i>Surrogate:</i>										
<i>Fluorobenzene</i>					101	100	74-121			

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

NWTPH-Dx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Date	Date	Flags
			Prepared	Analyzed	
Lab ID:	03-233-02				
Client ID:	CH-SB04-SO-0010				
Diesel Range	ND	27	4-6-10	4-6-10	Y
Lube Oil Range	ND	54	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	77%	50-150			

Lab ID:	03-233-08				
Client ID:	CH-SB02-SO-0160				
Diesel Range	ND	29	4-6-10	4-6-10	Y
Lube Oil Range	ND	59	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	64%	50-150			

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0406S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 84%

Flags: Y

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-233-02 03-233-02 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 77% 72%

Flags: Y Y

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Date	Date	Flags
			Prepared	Analyzed	
<hr/>					
Lab ID:	03-233-05				
Client ID:	CH-SB03-GW-0175				
Diesel Range	ND	0.29	4-6-10	4-6-10	Y
Lube Oil Range	ND	0.46	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	75%	50-150			

Lab ID:	03-233-09				
Client ID:	CH-SB02-GW-0175				
Diesel Range	ND	0.31	4-6-10	4-6-10	Y
Lube Oil Range	ND	0.49	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	77%	50-150			

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0406W1

Diesel Range: **ND**
PQL: 0.13
Identification: ---

Lube Oil Range: **ND**
PQL: 0.20
Identification: ---

Surrogate Recovery
o-Terphenyl: 74%

Flags: Y

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Water
Units: mg/L (ppm)

Lab ID: 03-237-01 03-237-01 DUP

Diesel Range: **ND** **ND**
PQL: 0.26 0.25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 78% 77%

Flags: Y Y

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 3-31-10
 Date Analyzed: 3-31-10
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 03-233-02
 Client ID: CH-SB04-SO-0010

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.034
Chloromethane	ND		0.17
Vinyl Chloride	ND		0.034
Bromomethane	ND		0.034
Chloroethane	ND		0.17
Trichlorofluoromethane	ND		0.034
1,1-Dichloroethene	ND		0.034
Iodomethane	ND		0.17
Methylene Chloride	ND		0.17
(trans) 1,2-Dichloroethene	ND		0.034
1,1-Dichloroethane	ND		0.034
2,2-Dichloropropane	ND		0.034
(cis) 1,2-Dichloroethene	ND		0.034
Bromochloromethane	ND		0.034
Chloroform	ND		0.034
1,1,1-Trichloroethane	ND		0.034
Carbon Tetrachloride	ND		0.034
1,1-Dichloropropene	ND		0.034
1,2-Dichloroethane	ND		0.034
Trichloroethene	ND		0.034
1,2-Dichloropropane	ND		0.034
Dibromomethane	ND		0.034
Bromodichloromethane	ND		0.034
2-Chloroethyl Vinyl Ether	ND		0.17
(cis) 1,3-Dichloropropene	ND		0.034
(trans) 1,3-Dichloropropene	ND		0.034

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 03-233-02
 Client ID: CH-SB04-SO-0010

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.034
Tetrachloroethene	ND		0.034
1,3-Dichloropropane	ND		0.034
Dibromochloromethane	ND		0.034
1,2-Dibromoethane	ND		0.034
Chlorobenzene	ND		0.034
1,1,1,2-Tetrachloroethane	ND		0.034
Bromoform	ND		0.034
Bromobenzene	ND		0.034
1,1,2,2-Tetrachloroethane	ND		0.034
1,2,3-Trichloropropane	ND		0.034
2-Chlorotoluene	ND		0.034
4-Chlorotoluene	ND		0.034
1,3-Dichlorobenzene	ND		0.034
1,4-Dichlorobenzene	ND		0.034
1,2-Dichlorobenzene	ND		0.034
1,2-Dibromo-3-chloropropane	ND		0.17
1,2,4-Trichlorobenzene	ND		0.034
Hexachlorobutadiene	ND		0.17
1,2,3-Trichlorobenzene	ND		0.034

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	84	66-128
Toluene-d8	95	68-126
4-Bromofluorobenzene	88	53-134

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 3-31-10
 Date Analyzed: 3-31-10
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0331S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0331S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	66-128
Toluene-d8	100	68-126
4-Bromofluorobenzene	96	53-134

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 3-31-10
 Date Analyzed: 3-31-10
 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0331S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0441	88	0.0482	96	70-130	
Benzene	0.0500	0.0464	93	0.0490	98	70-121	
Trichloroethene	0.0500	0.0485	97	0.0530	106	70-124	
Toluene	0.0500	0.0451	90	0.0489	98	70-123	
Chlorobenzene	0.0500	0.0411	82	0.0447	89	71-119	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	9	14	
Benzene	5	10	
Trichloroethene	9	12	
Toluene	8	12	
Chlorobenzene	8	9	

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 03-233-05
Client ID: CH-SB03-GW-0175

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 03-233-05
 Client ID: CH-SB03-GW-0175

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	87	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	92	70-123

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 03-233-06
 Client ID: CH-SB00-TB-0000

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 03-233-06
 Client ID: CH-SB00-TB-0000

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	87	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	90	70-123

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 03-233-09
Client ID: CH-SB02-GW-0175

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: 03-233-09
Client ID: CH-SB02-GW-0175

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	89	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	91	70-123

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0401W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0401W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	78	71-126
Toluene-d8	80	76-116
4-Bromofluorobenzene	81	70-123

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0401W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	9.43	94	9.26	93	70-130	
Benzene	10.0	8.96	90	8.80	88	73-130	
Trichloroethene	10.0	9.45	95	9.10	91	79-122	
Toluene	10.0	9.49	95	9.27	93	80-121	
Chlorobenzene	10.0	10.7	107	10.4	104	83-116	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	2	15	
Benzene	2	14	
Trichloroethene	4	14	
Toluene	2	13	
Chlorobenzene	3	13	

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

PAHs by EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-SB04-SO-0010					
Laboratory ID:	03-233-02					
Naphthalene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
2-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
1-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Acenaphthylene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Acenaphthene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Fluorene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Phenanthrene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Anthracene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Fluoranthene	0.0078	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Pyrene	0.0075	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[a]anthracene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Chrysene	0.0099	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[b]fluoranthene	0.010	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[k]fluoranthene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[a]pyrene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[g,h,i]perylene	0.0078	0.0073	EPA 8270/SIM	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>87</i>	<i>45 - 101</i>				
<i>Pyrene-d10</i>	<i>91</i>	<i>52 - 118</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>41 - 106</i>				

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0405S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Acenaphthene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Fluorene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Phenanthrene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Anthracene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Fluoranthene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Pyrene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Chrysene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>83</i>	<i>45 - 101</i>				
<i>Pyrene-d10</i>	<i>87</i>	<i>52 - 118</i>				
<i>Terphenyl-d14</i>	<i>72</i>	<i>41 - 106</i>				

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**PAHs by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-233-02										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0740	0.0719	0.0833	0.0833	ND	89	86	31 - 115	3	19	
Acenaphthylene	0.0848	0.0841	0.0833	0.0833	ND	102	101	40 - 134	1	22	
Acenaphthene	0.0781	0.0775	0.0833	0.0833	ND	94	93	48 - 118	1	17	
Fluorene	0.0801	0.0799	0.0833	0.0833	ND	96	96	54 - 122	0	16	
Phenanthrene	0.0829	0.0821	0.0833	0.0833	ND	100	99	46 - 123	1	19	
Anthracene	0.0771	0.0766	0.0833	0.0833	ND	93	92	53 - 123	1	27	
Fluoranthene	0.0876	0.0862	0.0833	0.0833	0.00715	97	95	47 - 132	2	26	
Pyrene	0.0845	0.0827	0.0833	0.0833	0.00690	93	91	41 - 137	2	25	
Benzo[a]anthracene	0.0748	0.0729	0.0833	0.0833	ND	90	88	43 - 132	3	26	
Chrysene	0.0839	0.0801	0.0833	0.0833	0.00912	90	85	46 - 126	5	24	
Benzo[b]fluoranthene	0.0794	0.0748	0.0833	0.0833	0.00956	84	78	44 - 134	6	24	
Benzo[k]fluoranthene	0.0604	0.0563	0.0833	0.0833	ND	73	68	45 - 132	7	20	
Benzo[a]pyrene	0.0837	0.0802	0.0833	0.0833	ND	100	96	36 - 136	4	23	
Indeno(1,2,3-c,d)pyrene	0.0824	0.0792	0.0833	0.0833	ND	99	95	40 - 136	4	16	
Dibenz[a,h]anthracene	0.0824	0.0806	0.0833	0.0833	ND	99	97	40 - 142	2	13	
Benzo[g,h,i]perylene	0.0894	0.0855	0.0833	0.0833	0.00712	99	94	37 - 137	4	18	
<i>Surrogate:</i>											
2-Fluorobiphenyl						92	89	45 - 101			
Pyrene-d10						93	93	52 - 118			
Terphenyl-d14						78	73	41 - 106			

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

PAHs by EPA 8270D/SIM

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-SB03GW-0175					
Laboratory ID:	03-233-05					
Naphthalene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
2-Methylnaphthalene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
1-Methylnaphthalene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Acenaphthylene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Acenaphthene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Fluorene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Phenanthrene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Anthracene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Fluoranthene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Pyrene	ND	0.11	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[a]anthracene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
Chrysene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[b]fluoranthene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[k]fluoranthene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[a]pyrene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[g,h,i]perylene	ND	0.011	EPA 8270/SIM	4-2-10	4-2-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	123	47 - 105				Q
Pyrene-d10	49	35 - 129				
Terphenyl-d14	36	36 - 106				

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

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

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0402W1					
Naphthalene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Acenaphthylene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Acenaphthene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Fluorene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Phenanthrene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Anthracene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Fluoranthene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Pyrene	ND	0.10	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
Chrysene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[k]fluoranthene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	4-2-10	4-2-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>95</i>	<i>47 - 105</i>				
<i>Pyrene-d10</i>	<i>109</i>	<i>35 - 129</i>				
<i>Terphenyl-d14</i>	<i>100</i>	<i>36 - 106</i>				

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**PAHs by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0402W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.342	0.304	0.500	0.500	68	61	49 - 101	12	34	
Acenaphthylene	0.367	0.372	0.500	0.500	73	74	54 - 113	1	27	
Acenaphthene	0.362	0.349	0.500	0.500	72	70	55 - 101	4	24	
Fluorene	0.397	0.390	0.500	0.500	79	78	60 - 104	2	20	
Phenanthrene	0.417	0.412	0.500	0.500	83	82	61 - 99	1	16	
Anthracene	0.437	0.437	0.500	0.500	87	87	60 - 109	0	16	
Fluoranthene	0.475	0.474	0.500	0.500	95	95	66 - 111	0	16	
Pyrene	0.473	0.476	0.500	0.500	95	95	66 - 113	1	17	
Benzo[a]anthracene	0.408	0.416	0.500	0.500	82	83	56 - 111	2	17	
Chrysene	0.428	0.436	0.500	0.500	86	87	55 - 102	2	19	
Benzo[b]fluoranthene	0.440	0.454	0.500	0.500	88	91	60 - 112	3	17	
Benzo[k]fluoranthene	0.449	0.456	0.500	0.500	90	91	45 - 114	2	21	
Benzo[a]pyrene	0.451	0.461	0.500	0.500	90	92	52 - 113	2	19	
Indeno(1,2,3-c,d)pyrene	0.463	0.475	0.500	0.500	93	95	34 - 124	3	21	
Dibenz[a,h]anthracene	0.462	0.471	0.500	0.500	92	94	26 - 129	2	31	
Benzo[g,h,i]perylene	0.457	0.465	0.500	0.500	91	93	26 - 127	2	25	
<i>Surrogate:</i>										
2-Fluorobiphenyl					69	63	47 - 105			
Pyrene-d10					94	93	35 - 129			
Terphenyl-d14					85	85	36 - 106			

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Lab Traveler: 1003-233
 Project: 555 1647 019 07/0703

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-SB04-SO-0010					
Laboratory ID:	03-233-02					
Aroclor 1016	ND	0.054	EPA 8082	4-7-10	4-7-10	
Aroclor 1221	ND	0.054	EPA 8082	4-7-10	4-7-10	
Aroclor 1232	ND	0.054	EPA 8082	4-7-10	4-7-10	
Aroclor 1242	ND	0.054	EPA 8082	4-7-10	4-7-10	
Aroclor 1248	ND	0.054	EPA 8082	4-7-10	4-7-10	
Aroclor 1254	ND	0.054	EPA 8082	4-7-10	4-7-10	
Aroclor 1260	ND	0.054	EPA 8082	4-7-10	4-7-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	85	46-122				

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Lab Traveler: 1003-233
 Project: 555 1647 019 07/0703

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0407S1					
Aroclor 1016	ND	0.050	EPA 8082	4-7-10	4-7-10	
Aroclor 1221	ND	0.050	EPA 8082	4-7-10	4-7-10	
Aroclor 1232	ND	0.050	EPA 8082	4-7-10	4-7-10	
Aroclor 1242	ND	0.050	EPA 8082	4-7-10	4-7-10	
Aroclor 1248	ND	0.050	EPA 8082	4-7-10	4-7-10	
Aroclor 1254	ND	0.050	EPA 8082	4-7-10	4-7-10	
Aroclor 1260	ND	0.050	EPA 8082	4-7-10	4-7-10	
Surrogate:	Percent Recovery	Control Limits				
DCB	91	46-122				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-233-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.375	0.432	0.500	0.500	ND	75	86	36-121	14	15	
Surrogate:											
DCB						77	86	46-122			

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**TOTAL METALS
 EPA 6010B/7471A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-233-02					
Client ID:	CH-SB04-SO-0010					
Arsenic	ND	11	6010B	4-6-10	4-6-10	
Cadmium	ND	0.54	6010B	4-6-10	4-6-10	
Chromium	26	0.54	6010B	4-6-10	4-6-10	
Lead	140	5.4	6010B	4-6-10	4-6-10	
Mercury	ND	0.27	7471A	4-5-10	4-5-10	

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

**TOTAL METALS
EPA 6010B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0406S2

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

**TOTAL METALS
EPA 7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-5-10
Date Analyzed: 4-5-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0405S1

Analyte	Method	Result	PQL
Mercury	7471A	ND	0.25

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**TOTAL METALS
 EPA 6010B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 4-6-10

Date Analyzed: 4-6-10

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-219-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	29.4	27.0	8	0.50	
Lead	5.59	ND	NA	5.0	

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

**TOTAL METALS
EPA 7471A
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-5-10

Date Analyzed: 4-5-10

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-215-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**TOTAL METALS
 EPA 6010B
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-6-10

Date Analyzed: 4-6-10

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-219-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	97.3	97	91.1	91	7	
Cadmium	50	48.5	97	46.5	93	4	
Chromium	100	129	99	125	95	3	
Lead	250	245	96	233	91	5	

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

**TOTAL METALS
EPA 7471A
MS/MSD QUALITY CONTROL**

Date Extracted: 4-5-10

Date Analyzed: 4-5-10

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-215-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.50	0.502	100	0.484	97	4	

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

DISSOLVED METALS
EPA 200.8/7470A

Date Filtered: 4-1-10
Date Analyzed: 4-1&6-10

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-233-01
Client ID: **CH-SB03-GW-0175**

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

**DISSOLVED METALS
EPA 200.8/7470A
METHOD BLANK QUALITY CONTROL**

Date Filtered: 4-1-10
Date Analyzed: 4-1&6-10

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0401F1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

**DISSOLVED METALS
 EPA 200.8/7470A
 DUPLICATE QUALITY CONTROL**

Date Filtered: 3-29-10
 Date Analyzed: 4-1&6-10

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: 03-207-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	3.27	3.21	2	3.0	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.50	

Date of Report: April 12, 2010
 Samples Submitted: March 31, 2010
 Laboratory Reference: 1003-233
 Project: 555 1647 019 07/0703

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

Date Filtered: 3-29-10
 Date Analyzed: 4-1&6-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 03-207-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	213	105	213	105	0	
Cadmium	200	205	102	206	103	0	
Chromium	200	201	100	203	101	1	
Lead	200	196	98	197	98	0	
Mercury	12.5	11.9	95	11.7	94	2	

Date of Report: April 12, 2010
Samples Submitted: March 31, 2010
Laboratory Reference: 1003-233
Project: 555 1647 019 07/0703

% MOISTURE

Date Analyzed: 3-31&4-5-10

Client ID	Lab ID	% Moisture
CH-SB04-SO-0010	03-233-02	8
CH-SB03-SO-0150	03-233-04	17
CH-SB02-SO-0160	03-233-08	15



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 April 2010

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 555 1647 019 07/0703
ARI Job No: QQ95

Dear David:

Please find enclosed the chain-of-custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted three soil samples on April 1, 2010. The samples were analyzed for grain size as requested.

An electronic copy of these reports will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Mark D. Harris".

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file QQ95

MDH/esj



Cooler Receipt Form

ARI Client: ONSITE

Project Name: N/A

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: Q095

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of cooler? YES (NO)

Were custody papers included with the cooler? (YES) NO

Were custody papers properly filled out (ink, signed, etc.) (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.6

If cooler temperature is out of compliance fill out form D0070F Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 4/1/10 Time: 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA (YES) NO

Were all bottles sealed in individual plastic bags? (YES) NO

Did all bottles arrive in good condition (unbroken)? (YES) NO

Were all bottle labels complete and legible? (YES) NO

Did the number of containers listed on COC match with the number of containers received? (YES) NO

Did all bottle labels and tags agree with custody papers? (YES) NO

Were all bottles used correct for the requested analyses? (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES (NO)

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? (YES) NO

Date VOC Trip Blank was made at ARI: (NA)

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JP Date: 4/1/10 Time: 1740

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"



Client: Onsite Environmental, Inc

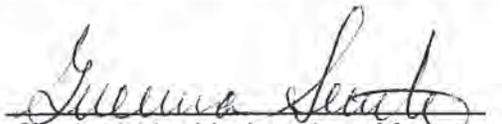
ARI Project No.: QQ95

Client Project: 555 1647 019 07/0703

Case Narrative

1. Three samples were submitted for analysis on April 2, 2010, and were in good condition.
2. The samples were submitted for grain size distribution according to ASTM D422, mechanical analysis.
3. The data is provided in summary tables and plots.
4. There were no further anomalies in the samples or test method.

Approved by:


Geotechnical Laboratory Manager

Date:



OnSite Environmental, Inc.
55 1647 019 07/0703

Percent Finer Than Indicated Size, By ASTM D422

Sample ID	5"	3"	2"	1.5"	1"	3/4"	1/2"	3/8"	#4	#10	#20	#40	#60	#100	#200
CH-SB04-S0-00660	100.00	100.0	100.0	100.0	90.2	90.2	74.7	68.6	58.5	51.6	44.6	28.2	11.9	5.7	3.0
CH-SB03-S0-0100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.1	93.2	90.6	70.5	30.0	11.1	4.1
CH-SB02-S0-0130	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	96.6	81.9	55.8	32.8	12.8

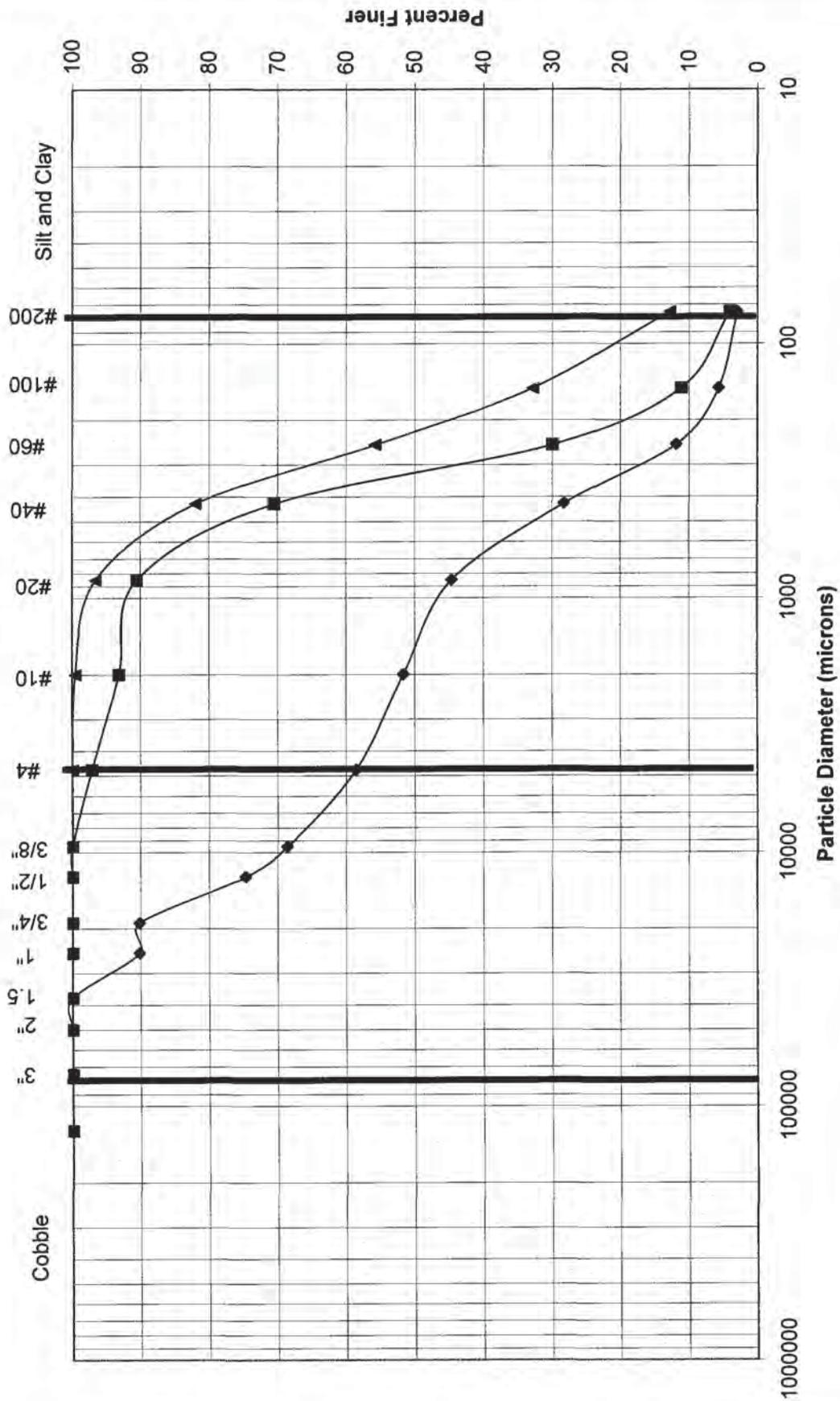
OnSite Environmental, Inc.
55 1647 019 07/0703

Percent Retained in Each Size Fraction, By ASTM D422

Sieve Size (microns)	5"-3"	3-2"	2-1.5"	1.5-1"	1-3/4"	3/4-1/2"	1/2-3/8"	3/8-#4	4750-2000	2000-850	850-425	425-250	250-150	150-75	<75
CH-SB04-S0-00660	0.0	0.0	0.0	9.8	0.0	15.5	6.1	10.0	6.9	7.0	16.4	16.3	6.2	2.7	3.0
CH-SB03-S0-0100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	4.0	2.6	20.1	40.5	18.8	7.1	4.1
CH-SB02-S0-0130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	14.7	26.1	23.0	20.0	12.8

QQ95

Grain Size Distribution By ASTM D422





MVA OnSite Environmental Inc.
 14648 NE 95th Street • Redmond, VA 99052
 Phone: (425) 853-3891 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
 (TPH analysis 5 working days)

(other)

Laboratory Number:

03-233

Requested Analysis

NWTPH-HCID
NWTPH-Gx/BTEX
NWTPH-Dx
Volatiles by 8260B
Halogenated Volatiles by 8260B
Semivolatiles by 8270D / SIM
PAHs by 8270D / SIM
PCBs by 8082
Pesticides by 8081A
Herbicides by 8151A
Total RCRA Metals (8)
FCLP Metals MICA HEM by 1664

Gram Size (Sieve)
 Dissolved metals

% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cans	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	FCLP Metals MICA HEM by 1664	Gram Size (Sieve)	Dissolved metals	% Moisture	
1	CH-5B04-50-0060	3/31/10	0830	Soil	1																
2	CH-5B04-50-0010	3/31/10	0900	Soil	6		X	X		X		X	X					X			X
3	CH-5B03-50-0100	3/31/10	1631	Soil	1																
4	CH-5B03-50-0150	3/31/10	1041	Soil	3		X			X		X									X
5	CH-5B03-50-0175	3/31/10	1146	H ₂ O	16		X	X		X		X									
6	CH-5B00-7B-0006	3/30/10	0000	H ₂ O	34		X			X											
7	CH-5B02-50-0130	3/31/10	1326	Soil	1																
8	CH-5B02-50-0160	3/31/10	1333	Soil	3		X	X													
9	CH-5B02-50-0175	3/31/10	1400	H ₂ O	7		X	X		X											X

Relinquished by	Signature	Company	Date	Time	Comments/Special Instructions
Received by	<i>Lily Vogelatos</i>	Para Matrix	3/31/10	1505	<i>ELM EDS</i>
Relinquished by	<i>Patricia Peterson</i>	OSE	3.31.10	3:05P	
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					
Relinquished by					
Reviewed by/Date					Chromatograms with final report <input type="checkbox"/>



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

April 12, 2010

David Dinkuhn
Parametrix, Inc.
4660 Kitsap Way, Suite A
Bremerton, WA 98312

Re: Analytical Data for Project 555-1647-019 (07/0703)
Laboratory Reference No. 1004-007

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on April 1, 2010.

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,

A handwritten signature in black ink, appearing to read 'DB' followed by a flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

Case Narrative

Samples were collected on April 1, 2010 and received by the laboratory on April 1, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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/BTEX and Halogenated Volatiles EPA 8260B 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.

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.

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-SB01-SO-0140					
Laboratory ID:	04-007-02					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.055	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.055	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.055	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.055	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	5.5	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	55-127				
Client ID:	CH-SB01-SO-2140					
Laboratory ID:	04-007-03					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.061	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.061	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.061	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.061	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	6.1	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	55-127				
Client ID:	CH-1DW-SO-0000					
Laboratory ID:	04-007-12					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.062	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.062	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.062	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.062	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	6.2	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	55-127				

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405S1					
Benzene	ND	0.020	EPA 8021	4-5-10	4-5-10	
Toluene	ND	0.050	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	0.050	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	0.050	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	0.050	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	5.0	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>101</i>	<i>55-127</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-233-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	94	55-127		

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-SB01-GW-0175					
Laboratory ID:	04-007-04					
Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Toluene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	100	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	74-121				
Client ID:	CH-SB01-GW-2175					
Laboratory ID:	04-007-05					
Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Toluene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	100	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	74-121				
Client ID:	CH-SB11-TB-0000 (Trip Blank)					
Laboratory ID:	04-007-11					
Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Toluene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	100	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	74-121				
Client ID:	CH-1DW-GW-0000					
Laboratory ID:	04-007-13					
Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Toluene	1.2	1.0	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	100	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	74-121				

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W1					
Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Toluene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Ethyl Benzene	ND	1.0	EPA 8021	4-5-10	4-5-10	
m,p-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
o-Xylene	ND	1.0	EPA 8021	4-5-10	4-5-10	
Gasoline	ND	100	NWTPH-Gx	4-5-10	4-5-10	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	99	74-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-007-05							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
Fluorobenzene				99	99	74-121		

MATRIX SPIKES

Laboratory ID:	04-007-04									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	50.8	48.5	50.0	50.0	ND	102	97	78-118	5	8
Toluene	54.0	51.1	50.0	50.0	ND	108	102	81-119	6	8
Ethyl Benzene	55.3	51.9	50.0	50.0	ND	111	104	81-121	6	8
m,p-Xylene	55.7	51.8	50.0	50.0	ND	111	104	79-123	7	8
o-Xylene	55.5	51.9	50.0	50.0	ND	111	104	79-121	7	8
<i>Surrogate:</i>										
Fluorobenzene					105	100	74-121			

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

NWTPH-Dx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Date	Date	Flags
			Prepared	Analyzed	
Lab ID:	04-007-02				
Client ID:	CH-SB01-SO-0140				
Diesel Range	ND	27	4-6-10	4-6-10	Y
Lube Oil Range	ND	54	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	80%	50-150			

Lab ID:	04-007-03				
Client ID:	CH-SB01-SO-2140				
Diesel Range	ND	27	4-6-10	4-6-10	Y
Lube Oil Range	ND	53	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	72%	50-150			

Lab ID:	04-007-12				
Client ID:	CH-1DW-SO-0000				
Diesel Range	ND	28	4-6-10	4-6-10	Y
Lube Oil Range	ND	56	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	72%	50-150			

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0406S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 84%

Flags: Y

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-007-02 04-007-02 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 80% 83%

Flags: Y Y

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Date		Flags
			Prepared	Analyzed	
Lab ID:	04-007-04				
Client ID:	CH-SB01-GW-0175				
Diesel Range	ND	0.31	4-6-10	4-6-10	Y
Lube Oil Range	ND	0.49	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	73%	50-150			

Lab ID:	04-007-05				
Client ID:	CH-SB01-GW-2175				
Diesel Range	ND	0.16	4-6-10	4-6-10	Y
Lube Oil Range	ND	0.25	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	88%	50-150			

Lab ID:	04-007-13				
Client ID:	CH-1DW-GW-0000				
Diesel Range	ND	0.16	4-6-10	4-6-10	Y
Lube Oil Range	ND	0.25	4-6-10	4-6-10	Y
Surrogate: o-terphenyl	77%	50-150			

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0406W1

Diesel Range: **ND**
PQL: 0.13
Identification: ---

Lube Oil Range: **ND**
PQL: 0.20
Identification: ---

Surrogate Recovery
o-Terphenyl: 74%

Flags: Y

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Water
Units: mg/L (ppm)

Lab ID: 03-237-01 03-237-01 DUP

Diesel Range: **ND** **ND**
PQL: 0.26 0.25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 78% 77%

Flags: Y Y

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-007-07
 Client ID: CH-SB05-SO-0170

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0057
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0057
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0057
Methylene Chloride	ND		0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0057
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-007-07
 Client ID: CH-SB05-SO-0170

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0057
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0057
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	66-128
Toluene-d8	108	68-126
4-Bromofluorobenzene	93	53-134

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 04-007-08
 Client ID: CH-SB05-SO-2170

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0056
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0056
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Iodomethane	ND		0.0056
Methylene Chloride	ND		0.0056
(trans) 1,2-Dichloroethene	ND		0.0011
1,1-Dichloroethane	ND		0.0011
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0056
(cis) 1,3-Dichloropropene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-007-08
 Client ID: CH-SB05-SO-2170

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Bromoform	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0056
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0056
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	66-128
Toluene-d8	97	68-126
4-Bromofluorobenzene	87	53-134

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0401S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Iodomethane	ND		0.0050
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
1,1-Dichloroethane	ND		0.0010
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0401S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Bromoform	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	94	66-128
Toluene-d8	103	68-126
4-Bromofluorobenzene	100	53-134

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 4-1-10
 Date Analyzed: 4-1-10
 Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0401S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0457	91	0.0456	91	70-130	
Benzene	0.0500	0.0487	97	0.0490	98	70-121	
Trichloroethene	0.0500	0.0520	104	0.0508	102	70-124	
Toluene	0.0500	0.0505	101	0.0495	99	70-123	
Chlorobenzene	0.0500	0.0442	88	0.0457	91	71-119	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	0	14	
Benzene	1	10	
Trichloroethene	2	12	
Toluene	2	12	
Chlorobenzene	3	9	

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-2-10
 Date Analyzed: 4-2-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-007-09
Client ID: CH-SB05-GW-0175

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-007-09
 Client ID: CH-SB05-GW-0175

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	3.7		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	84	71-126
Toluene-d8	85	76-116
4-Bromofluorobenzene	91	70-123

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-2-10
 Date Analyzed: 4-2-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-007-10
Client ID: CH-SB05-GW-2175

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-007-10
 Client ID: CH-SB05-GW-2175

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	3.1		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	85	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	92	70-123

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 4-2-10

Date Analyzed: 4-2-10

Matrix: Water

Units: ug/L (ppb)

Lab ID: 04-007-11

Client ID: CH-SB11-TB-0000 (Trip Blank)

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

HALOGENATED VOLATILES by EPA 8260B

Page 2 of 2

Lab ID: 04-007-11
 Client ID: CH-SB11-TB-0000 (Trip Blank)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	86	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	90	70-123

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Date Extracted: 4-2-10
 Date Analyzed: 4-2-10
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB0402W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Iodomethane	ND		1.0
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
1,1-Dichloroethane	ND		0.20
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Lab ID: MB0402W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Bromoform	ND		1.0
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	78	71-126
Toluene-d8	83	76-116
4-Bromofluorobenzene	85	70-123

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 4-2-10
 Date Analyzed: 4-2-10

Matrix: Water
 Units: ug/L (ppb)

Lab ID: SB0402W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	10.0	9.54	95	9.36	94	70-130	
Benzene	10.0	8.82	88	9.09	91	73-130	
Trichloroethene	10.0	9.14	91	9.12	91	79-122	
Toluene	10.0	9.27	93	9.35	94	80-121	
Chlorobenzene	10.0	10.8	108	10.5	105	83-116	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	2	15	
Benzene	3	14	
Trichloroethene	0	14	
Toluene	1	13	
Chlorobenzene	2	13	

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**TOTAL METALS
 EPA 6010B/7471A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-007-12					
Client ID:	CH-1DW-SO-0000					
Arsenic	ND	11	6010B	4-6-10	4-6-10	
Cadmium	ND	0.56	6010B	4-6-10	4-6-10	
Chromium	24	0.56	6010B	4-6-10	4-6-10	
Lead	ND	5.6	6010B	4-6-10	4-6-10	
Mercury	ND	0.28	7471A	4-5-10	4-5-10	

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

**TOTAL METALS
EPA 6010B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-6-10
Date Analyzed: 4-6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0406S2

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

**TOTAL METALS
EPA 7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-5-10
Date Analyzed: 4-5-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0405S1

Analyte	Method	Result	PQL
Mercury	7471A	ND	0.25

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**TOTAL METALS
 EPA 6010B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 4-6-10

Date Analyzed: 4-6-10

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-219-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	29.4	27.0	8	0.50	
Lead	5.59	ND	NA	5.0	

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

**TOTAL METALS
EPA 7471A
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-5-10
Date Analyzed: 4-5-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-215-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

Date of Report: April 12, 2010
 Samples Submitted: April 1, 2010
 Laboratory Reference: 1004-007
 Project: 555-1647-019 (07/0703)

**TOTAL METALS
 EPA 6010B
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-6-10

Date Analyzed: 4-6-10

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-219-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	97.3	97	91.1	91	7	
Cadmium	50	48.5	97	46.5	93	4	
Chromium	100	129	99	125	95	3	
Lead	250	245	96	233	91	5	

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

**TOTAL METALS
EPA 7471A
MS/MSD QUALITY CONTROL**

Date Extracted: 4-5-10

Date Analyzed: 4-5-10

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-215-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.50	0.502	100	0.484	97	4	

Date of Report: April 12, 2010
Samples Submitted: April 1, 2010
Laboratory Reference: 1004-007
Project: 555-1647-019 (07/0703)

% MOISTURE

Date Analyzed: 4-1&5-10

Client ID	Lab ID	% Moisture
CH-SB01-SO-0140	04-007-02	7
CH-SB01-SO-2140	04-007-03	7
CH-SB05-SO-0170	04-007-07	12
CH-SB05-SO-2170	04-007-08	7
CH-1DW-SO-0000	04-007-12	11



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-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 April 2010

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 555 1647 019 07/0703
ARI Job No: QQ96

Dear David:

Please find enclosed the chain-of-custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted two soil samples on April 1, 2010. The samples were analyzed for grain size as requested.

An electronic copy of these reports will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Mark D. Harris".

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file QQ96

MDH/esj



Cooler Receipt Form

ARI Client: Onsite

Project Name: N/A

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: QQ96

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)

Were custody papers included with the cooler? (YES) NO

Were custody papers properly filled out (ink, signed, etc.) (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.6

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 909411019

Cooler Accepted by: AV Date: 4/1/10 Time: 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA (YES) NO

Were all bottles sealed in individual plastic bags? (YES) NO

Did all bottles arrive in good condition (unbroken)? (YES) NO

Were all bottle labels complete and legible? (YES) NO

Did the number of containers listed on COC match with the number of containers received? (YES) NO

Did all bottle labels and tags agree with custody papers? (YES) NO

Were all bottles used correct for the requested analyses? (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES (NO)

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? (YES) NO

Date VOC Trip Blank was made at ARI: (NA)

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SP Date: 4/1/10 Time: 1750

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

<p>Small Air Bubbles ~2mm</p>	<p>Peabubbles 2-4 mm</p>	<p>LARGE Air Bubbles > 4 mm</p>	Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"



Client: Onsite Environmental, Inc

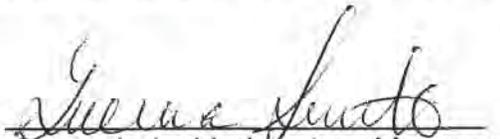
ARI Project No.: QQ96

Client Project: 555 1647 019 07/0703

Case Narrative

1. Two samples were submitted for analysis on April 2, 2010, and were in good condition.
2. The samples were submitted for grain size distribution according to ASTM D422, mechanical analysis.
3. The data is provided in summary tables and plots.
4. There were no further anomalies in the samples or test method.

Approved by:


Geotechnical Laboratory Manager

Date:



OnSite Environmental, Inc.
555-1647-019 (07/0703)

Percent Finer Than Indicated Size, By ASTM D422

Sample ID	5"	3"	2"	1.5"	1"	3/4"	1/2"	3/8"	#4	#10	#20	#40	#60	#100	#200
CH-SB01-S0-0110	100.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	98.7	78.5	36.4	15.7	6.3
CH-SB05-S0-0130	100.0	100.0	100.0	100.0	100.0	100.0	94.3	90.8	86.1	81.5	74.1	45.9	18.5	9.2	4.8

OnSite Environmental, Inc.
 555-1647-019 (07/0703)

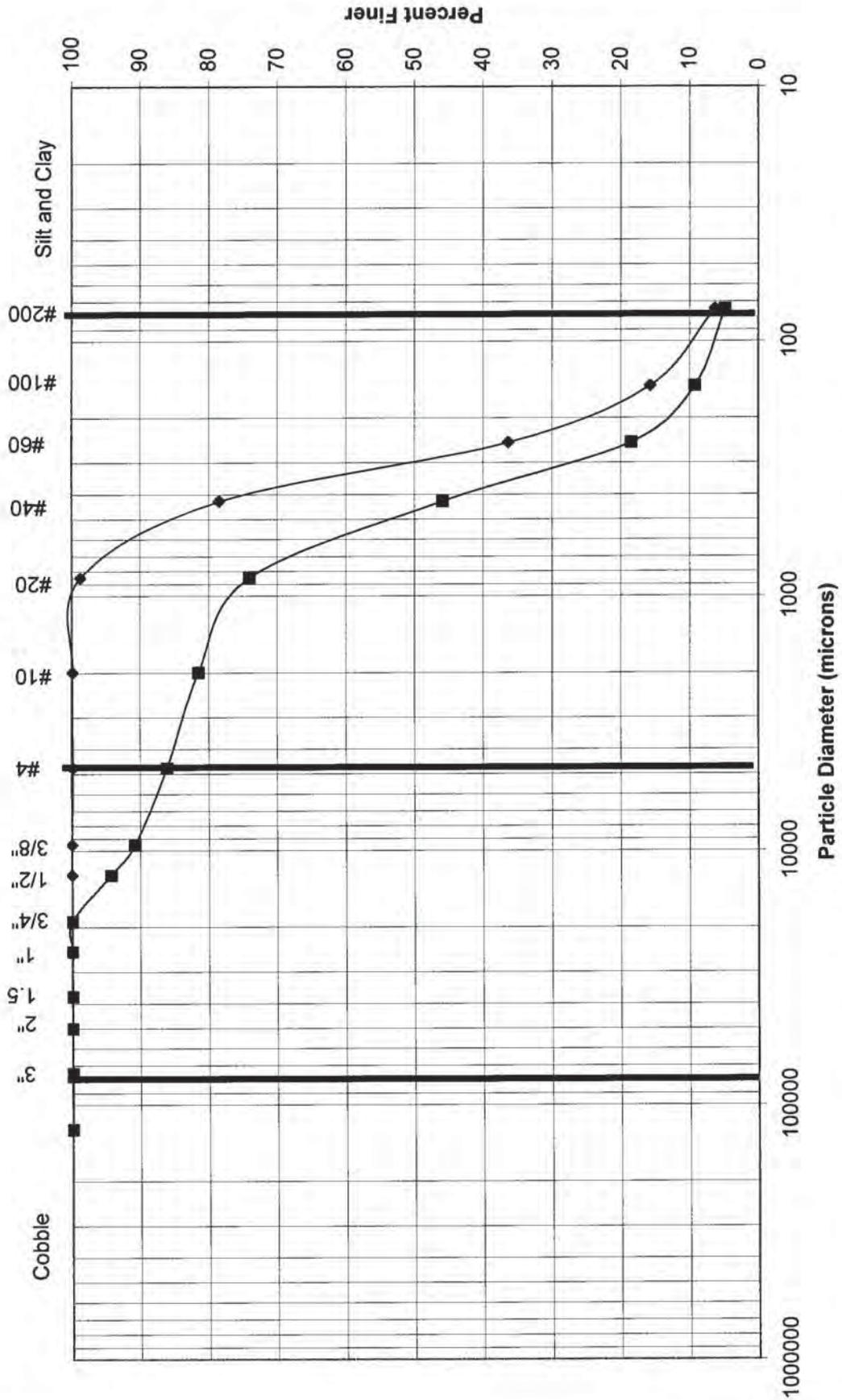
Percent Retained in Each Size Fraction, By ASTM D422

Sieve Size (microns)	5"-3"	3-2"	2-1.5"	1.5-1"	1-3/4"	3/4-1/2"	1/2-3/8"	3/8-#4	4750-2000	2000-850	850-425	425-250	250-150	150-75	<75
CH-SB01-S0-0110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.1	20.3	42.1	20.6	9.4	6.3
CH-SB05-S0-0130	0.0	0.0	0.0	0.0	0.0	5.7	3.5	4.7	4.6	7.4	28.2	27.4	9.3	4.4	4.8

QQ96

QQ96 : 00006

Grain Size Distribution By ASTM D422



Legend:
 ◆ CH-SB01-S0-0110
 ■ CH-SB05-S0-0130



Mn OnSite
Environmental Inc.
 14644 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.on-site-en.com

Chain of Custody

Turnaround Request
 (in working days)

Laboratory Number:

04-007

Requested Analysis

(Check One)

- Same Day 1 Day
- 2 Day 3 Day
- Standard (7 working days)
 (TPH analysis 5 working days)
- (other)

Company: **Parametrix**
 Project Number: **555-1647-019 (07/0703)**
 Project Name: **Bothell City Hall**
 Project Manager: **David Dinkuhn**
 Sampled by: **Lily Vagelatos**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
1	CH-SB01-SO-0110	4/1/10	0854	Soil	1
2	CH-SB01-SO-0140	4/1/10	0900	Soil	3
3	CH-SB01-SO-2140	4/1/10	0905	Soil	3
4	CH-SB01-GW-0175	4/1/10	0945	Soil	4
5	CH-SB01-GW-2175	4/1/10	0950	H ₂ O	4
6	CH-SB05-SO-0130	4/1/10	1135	soil	1
7	CH-SB05-SO-0170	4/1/10	1150	soil	23
8	CH-SB05-SO-2170	4/1/10	1155	soil	23
9	CH-SB05-GW-0175	4/1/10	1200	H ₂ O	3
10	CH-SB05-GW-02175	4/1/10	1205	H ₂ O	3

Requested Analysis	Requested
NWTPH-HCID	
NWTPH-Gx/BTEX	X
NWTPH-Dx	X
Volatiles by 8260B	
Halogenated Volatiles by 8260B	
Semivolatiles by 8270D / SIM	
PAHs by 8270D / SIM	
PCBs by 8082	
Pesticides by 8081A	
Herbicides by 8151A	
Total RCRA Metals (8)	
TCLP Metals	
HEM by 1664	
Grain Size	X
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Lily Vagelatos</i>	Parametrix	4/1/10	1400	EIM EDD
<i>[Signature]</i>	Parametrix	4/1/10	1400	

Relinquished by _____

Received by _____

Relinquished by _____

Received by _____

Relinquished by _____

Received by _____

Reviewed by/Date _____

Reviewed by/Date _____

Chromatograms with final report



Environmental Inc.
 14648 NE 96th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.on-site-env.com

Chain of Custody

Company: **Parametrix**

Project Number: **655-1647-619 (07/0703)**

Project Name: **Bothell City Hall**

Project Manager: **David Dinkuh**

Sampled by: **Lilly Vagelatos**

Turnaround Request
(in working days)

(Check One)

Same Day

1 Day

2 Day

3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Laboratory Number:

Requested Analysis

04-007

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Bott.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total PCBs Metals (E)	MTCA	TCLP Metals	HEM by 1664	% Moisture
11	CH-SB11 - TB - 0000 (Trip Blank)	3/3/10	0000	H2O	4		X			X										
12	CH-IDW-S0 - 0000	4/1/10	1220	Soil	4		X	X									X			
13	CH-IDW-GW - 0000	4/1/10	1230	H2O	4		X	X												

Signature	Company	Date	Time	Comments/Special Instructions
<i>Lilly Vagelatos</i>	Parametrix	4/1/10	1400	E/M BDD

Relinquished by _____

Received by _____

Relinquished by _____

Received by _____

Relinquished by _____

Received by _____

Reviewed by/Date _____

Reviewed by/Date _____

Chromatograms with final report



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

July 12, 2011

Pam Morrill
CDM
14432 SE Eastgate Way, Suite 100
Bellevue, WA 98007-6493

Re: Analytical Data for Project 19897.82614
Laboratory Reference No. 1106-228

Dear Pam:

Enclosed are the analytical results and associated quality control data for samples submitted on June 28, 2011.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 12, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-228
Project: 19897.82614

Case Narrative

Samples were collected on June 27 and 28, 2011 and received by the laboratory on June 28, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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/BTEX (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 8260B (soil) Analysis

Method 5035A low-level VOAs containing stir bars were not provided for sample RC-B29-6. The sample was therefore extracted from a 4-ounce jar for analysis.

Acetone and Methylene Chloride are common laboratory solvents that may have been introduced during sample preparation for sample RC-B29-6 and thereby be impacting the sample results.

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.

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.

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B19-06/27					
Laboratory ID:	06-228-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	2.4	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B19-06/27					
Laboratory ID:	06-228-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	1.4	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B20-06/27					
Laboratory ID:	06-228-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B20-06/27					
Laboratory ID:	06-228-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B21-06/27					
Laboratory ID:	06-228-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	2.6	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B21-06/27					
Laboratory ID:	06-228-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B22-06/27					
Laboratory ID:	06-228-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B22-06/27					
Laboratory ID:	06-228-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B23-06/27					
Laboratory ID:	06-228-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B23-06/27					
Laboratory ID:	06-228-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B24-06/27					
Laboratory ID:	06-228-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B24-06/27					
Laboratory ID:	06-228-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B25-06/27					
Laboratory ID:	06-228-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B25-06/27					
Laboratory ID:	06-228-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	0.40	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B26-06/27					
Laboratory ID:	06-228-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B26-06/27					
Laboratory ID:	06-228-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B27-06/28					
Laboratory ID:	06-228-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	0.82	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B27-06/28					
Laboratory ID:	06-228-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B28-06/28					
Laboratory ID:	06-228-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	1.0	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B28-06/28					
Laboratory ID:	06-228-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	2.1	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B29-06/28					
Laboratory ID:	06-228-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	2.7	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	0.32	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	0.58	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B29-06/28					
Laboratory ID:	06-228-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B0-06/28					
Laboratory ID:	06-228-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	1.1	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B0-06/28					
Laboratory ID:	06-228-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	2.7	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-BB2-06/27					
Laboratory ID:	06-228-14					
Dichlorodifluoromethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	2.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.40	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	2.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.40	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	2.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	2.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.40	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-BB2-06/27					
Laboratory ID:	06-228-14					
1,1,2-Trichloroethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	76	0.40	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	2.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.40	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.40	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.40	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	92	68-120				
<i>Toluene-d8</i>	89	73-120				
<i>4-Bromofluorobenzene</i>	79	65-120				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-BB3-06/28					
Laboratory ID:	06-228-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	0.21	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-BB3-06/28					
Laboratory ID:	06-228-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	06-228-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	06-228-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0705W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0705W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0705W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.38	9.47	10.0	10.0	94	95	70-130	1	11	
Benzene	8.32	8.65	10.0	10.0	83	87	75-123	4	8	
Trichloroethene	8.76	8.71	10.0	10.0	88	87	80-113	1	9	
Toluene	8.51	8.66	10.0	10.0	85	87	80-113	2	8	
Chlorobenzene	8.96	8.79	10.0	10.0	90	88	80-111	2	8	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	101	68-120			
<i>Toluene-d8</i>					100	102	73-120			
<i>4-Bromofluorobenzene</i>					98	102	65-120			

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

NWTPH-HCID
 (with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B20-6					
Laboratory ID:	06-228-16					
Gasoline Range Organics	ND	71	NWTPH-HCID	6-29-11	7-1-11	U1
Diesel Fuel #2	Detected	56	NWTPH-HCID	6-29-11	7-1-11	
Lube Oil	Detected	110	NWTPH-HCID	6-29-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>140</i>	<i>50-150</i>				

Client ID:	RC-B29-6					
Laboratory ID:	06-228-17					
Gasoline Range Organics	ND	42	NWTPH-HCID	6-29-11	7-1-11	U1
Diesel Range Organics	Detected	56	NWTPH-HCID	6-29-11	7-1-11	N
Lube Oil	Detected	110	NWTPH-HCID	6-29-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>143</i>	<i>50-150</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**NWTPH-HCID
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	6-29-11	7-1-11	
Diesel Range Organics	ND	50	NWTPH-HCID	6-29-11	7-1-11	
Lube Oil Range Organics	ND	100	NWTPH-HCID	6-29-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>141</i>	<i>50-150</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-Drum-0					
Laboratory ID:	06-228-18					
Benzene	ND	0.020	EPA 8021	7-1-11	7-1-11	
Toluene	ND	0.060	EPA 8021	7-1-11	7-1-11	
Ethyl Benzene	ND	0.060	EPA 8021	7-1-11	7-1-11	
m,p-Xylene	ND	0.060	EPA 8021	7-1-11	7-1-11	
o-Xylene	ND	0.060	EPA 8021	7-1-11	7-1-11	
Gasoline	ND	6.0	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>111</i>	<i>68-124</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701S1					
Benzene	ND	0.020	EPA 8021	7-1-11	7-1-11	
Toluene	ND	0.050	EPA 8021	7-1-11	7-1-11	
Ethyl Benzene	ND	0.050	EPA 8021	7-1-11	7-1-11	
m,p-Xylene	ND	0.050	EPA 8021	7-1-11	7-1-11	
o-Xylene	ND	0.050	EPA 8021	7-1-11	7-1-11	
Gasoline	ND	5.0	NWTPH-Gx	7-1-11	7-1-11	
Surrogate:	Percent Recovery Control Limits					

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-262-03							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:	Fluorobenzene							
				113	116	68-124		

SPIKE BLANKS

Laboratory ID:	SB	SBD	SB	SBD	SB	SBD			
SB0701S1									
Benzene	0.897	0.917	1.00	1.00	90	92	77-114	2	9
Toluene	0.985	1.04	1.00	1.00	99	104	80-115	5	9
Ethyl Benzene	0.990	1.01	1.00	1.00	99	101	80-118	2	9
m,p-Xylene	1.01	1.05	1.00	1.00	101	105	82-118	4	9
o-Xylene	1.01	1.03	1.00	1.00	101	103	82-116	2	9
Surrogate:	Fluorobenzene								
					100	101	68-124		

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-Drum-0					
Laboratory ID:	06-228-18					
Diesel Range Organics	ND	27	NWTPH-Dx	6-29-11	6-29-11	
Lube Oil	320	55	NWTPH-Dx	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>105</i>	<i>50-150</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629S1					
Diesel Range Organics	ND	25	NWTPH-Dx	6-29-11	6-29-11	
Lube Oil Range Organics	ND	50	NWTPH-Dx	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>114</i>	<i>50-150</i>				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-228-18					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil	290	191		41	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			105 105	50-150		

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B00-06/28					
Laboratory ID:	06-228-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	2.3	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	0.30	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	0.56	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B00-06/28					
Laboratory ID:	06-228-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0705W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloromethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Iodomethane	ND	1.0	EPA 8260	7-5-11	7-5-11	
Methylene Chloride	ND	1.0	EPA 8260	7-5-11	7-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chloroform	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Trichloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromomethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-5-11	7-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-5-11	7-5-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0705W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Chlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
Bromoform	ND	1.0	EPA 8260	7-5-11	7-5-11	
Bromobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-5-11	7-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-5-11	7-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-5-11	7-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-5-11	7-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>65-120</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0705W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.38	9.47	10.0	10.0	94	95	70-130	1	11	
Benzene	8.32	8.65	10.0	10.0	83	87	75-123	4	8	
Trichloroethene	8.76	8.71	10.0	10.0	88	87	80-113	1	9	
Toluene	8.51	8.66	10.0	10.0	85	87	80-113	2	8	
Chlorobenzene	8.96	8.79	10.0	10.0	90	88	80-111	2	8	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	101	68-120			
<i>Toluene-d8</i>					100	102	73-120			
<i>4-Bromofluorobenzene</i>					98	102	65-120			

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B29-6					
Laboratory ID:	06-228-17					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Chloromethane	ND	0.0056	EPA 8260	6-30-11	6-30-11	
Vinyl Chloride	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Bromomethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Chloroethane	ND	0.0056	EPA 8260	6-30-11	6-30-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Acetone	0.11	0.0056	EPA 8260	6-30-11	6-30-11	H
Iodomethane	ND	0.0056	EPA 8260	6-30-11	6-30-11	
Carbon Disulfide	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Methylene Chloride	0.12	0.0056	EPA 8260	6-30-11	6-30-11	H
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Vinyl Acetate	ND	0.0056	EPA 8260	6-30-11	6-30-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
2-Butanone	ND	0.0056	EPA 8260	6-30-11	6-30-11	
Bromochloromethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Chloroform	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Benzene	0.0016	0.0011	EPA 8260	6-30-11	6-30-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Trichloroethene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Dibromomethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Bromodichloromethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	6-30-11	6-30-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260	6-30-11	6-30-11	
Toluene	ND	0.0056	EPA 8260	6-30-11	6-30-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-30-11	6-30-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B29-6					
Laboratory ID:	06-228-17					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Tetrachloroethene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
2-Hexanone	ND	0.0056	EPA 8260	6-30-11	6-30-11	
Dibromochloromethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Chlorobenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Ethylbenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
m,p-Xylene	0.012	0.0022	EPA 8260	6-30-11	6-30-11	
o-Xylene	0.0022	0.0011	EPA 8260	6-30-11	6-30-11	
Styrene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Bromoform	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Isopropylbenzene	0.019	0.0011	EPA 8260	6-30-11	6-30-11	
Bromobenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	6-30-11	6-30-11	
n-Propylbenzene	0.028	0.0011	EPA 8260	6-30-11	6-30-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,2,4-Trimethylbenzene	0.14	0.0011	EPA 8260	6-30-11	6-30-11	
sec-Butylbenzene	0.014	0.0011	EPA 8260	6-30-11	6-30-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
p-Isopropyltoluene	0.0063	0.0011	EPA 8260	6-30-11	6-30-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
n-Butylbenzene	0.0077	0.0011	EPA 8260	6-30-11	6-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	6-30-11	6-30-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	6-30-11	6-30-11	
Naphthalene	0.022	0.0011	EPA 8260	6-30-11	6-30-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>73</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>69</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>67</i>	<i>55-121</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-Drum-0					
Laboratory ID:	06-228-18					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chloromethane	ND	0.0052	EPA 8260	6-30-11	6-30-11	
Vinyl Chloride	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromomethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chloroethane	ND	0.0052	EPA 8260	6-30-11	6-30-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Iodomethane	ND	0.0052	EPA 8260	6-30-11	6-30-11	
Methylene Chloride	ND	0.0052	EPA 8260	6-30-11	6-30-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromochloromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chloroform	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Trichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Dibromomethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromodichloromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260	6-30-11	6-30-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-30-11	6-30-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-Drum-0					
Laboratory ID:	06-228-18					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Tetrachloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Dibromochloromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromoform	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260	6-30-11	6-30-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Hexachlorobutadiene	ND	0.0052	EPA 8260	6-30-11	6-30-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>81</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>55-121</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0630S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chloromethane	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Vinyl Chloride	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromomethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chloroethane	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Acetone	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Iodomethane	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Carbon Disulfide	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Methylene Chloride	ND	0.0050	EPA 8260	6-30-11	6-30-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Vinyl Acetate	ND	0.0050	EPA 8260	6-30-11	6-30-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
2-Butanone	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Bromochloromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chloroform	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Benzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Trichloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Dibromomethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromodichloromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	6-30-11	6-30-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Toluene	ND	0.0050	EPA 8260	6-30-11	6-30-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-30-11	6-30-11	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0630S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Tetrachloroethene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
2-Hexanone	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Dibromochloromethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Chlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Ethylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
m,p-Xylene	ND	0.0020	EPA 8260	6-30-11	6-30-11	
o-Xylene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Styrene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromoform	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Isopropylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Bromobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	6-30-11	6-30-11	
n-Propylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
n-Butylbenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	6-30-11	6-30-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	6-30-11	6-30-11	
Naphthalene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>81</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>83</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>55-121</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0630S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0566	0.0576	0.0500	0.0500	113	115	70-130	2	19	
Benzene	0.0471	0.0481	0.0500	0.0500	94	96	70-125	2	15	
Trichloroethene	0.0494	0.0493	0.0500	0.0500	99	99	70-122	0	14	
Toluene	0.0487	0.0473	0.0500	0.0500	97	95	73-120	3	16	
Chlorobenzene	0.0515	0.0483	0.0500	0.0500	103	97	74-109	6	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					72	72	63-127			
<i>Toluene-d8</i>					73	75	65-129			
<i>4-Bromofluorobenzene</i>					77	77	55-121			

Date of Report: July 12, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-228
Project: 19897.82614

**TOTAL LEAD
EPA 6010B**

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-228-17					
Client ID:	RC-B29-6					
Lead	30	5.6	6010B	7-6-11	7-6-11	

Date of Report: July 12, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-228
Project: 19897.82614

**TOTAL LEAD
EPA 6010B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-6-11
Date Analyzed: 7-6-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0706S2

Analyte	Method	Result	PQL
Lead	6010B	ND	5.0

Date of Report: July 12, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-228
Project: 19897.82614

**TOTAL LEAD
EPA 6010B
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-6-11

Date Analyzed: 7-6-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-214-25

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

Date of Report: July 12, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-228
Project: 19897.82614

**TOTAL LEAD
EPA 6010B
MS/MSD QUALITY CONTROL**

Date Extracted: 7-6-11

Date Analyzed: 7-6-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-214-25

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	251	100	249	100	1	

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RC-B20-6					
Laboratory ID:	06-228-16					
Diesel Fuel #2	780	28	NWTPH-Dx	7-8-11	7-8-11	
Lube Oil	530	56	NWTPH-Dx	7-8-11	7-8-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>103</i>	<i>50-150</i>				
Client ID:	RC-B29-6					
Laboratory ID:	06-228-17					
Diesel Range Organics	200	28	NWTPH-Dx	7-8-11	7-11-11	N
Lube Oil	1900	56	NWTPH-Dx	7-8-11	7-11-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>102</i>	<i>50-150</i>				

Date of Report: July 12, 2011
 Samples Submitted: June 28, 2011
 Laboratory Reference: 1106-228
 Project: 19897.82614

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0708S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-8-11	7-8-11	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-8-11	7-8-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	07-039-02					
	ORIG	DUP				
Diesel Fuel #2	111	89.7		21	NA	N
Lube Oil	369	321		14	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			81 88	50-150		

Date of Report: July 12, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-228
Project: 19897.82614

% MOISTURE

Date Analyzed: 6-29-11

Client ID	Lab ID	% Moisture
RC-B20-6	06-228-16	10
RC-B29-6	06-228-17	10
RC-Drum-0	06-228-18	8



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

Chain of Custody

06-228

Company: CDM

Project Number: 19897.82614

Project Name: Former Raincheck Cleaners

Project Manager: Pam Morrill

Sampled by: August Welch

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: 06-228

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	% Moisture	
1	RC-B19-06/27	6/27/11	0855	W	3						X											
2	RC-B20-06/27	↓	0940	↓							X											
3	RC-B21-06/27		1040		X																	
4	RC-B22-06/27		1120		X																	
5	RC-B23-06/27		1220		X																	
6	RC-B24-06/27		1320		X																	
7	RC-B25-06/27		1400		X																	
8	RC-B26-06/27		6/27/11		1435	X																
9	RC-B27-06/28	6/28/11	0900	↓						X												
10	RC-B28-06/28	6/28/11	0935	W							X											

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>August Welch</u>	<u>CDM</u>	<u>6/28/11</u>	<u>1342</u>	<u>Added 6/28/11 - DB</u>
Received	<u>[Signature]</u>	<u>ORE</u>	<u>6/28/11</u>	<u>1342</u>	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/>

Chain of Custody

Company: CDM

Project Number: 19897-82614

Project Name: Former Raincheck Cleaners

Project Manager: Pam Morrill

Sampled by: August Wedel

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **06-228**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total PCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Lead	Hold	% Moisture	
11	RC-B29-06/28	6/28/11	1000	W	3						X													
12	RC-B0-06/28	6/28/11	0940	W	3						X													
13	RC-B00-06/28	6/28/11	1005	W	3						X												X	
14	RC-BB2-06/27	6/27/11	1150	W	3						X													
15	RC-BB3-06/28	6/28/11	0715	W	3						X													
16	RC-B20-6	6/27/11	950	S	5	X																	X	X
17	RC-B29-6	6/28/11	0955	S	2	X															X		X	X
18	RC-Drum-φ	6/28/11	1100	S	5	X	X				X													X
19	Trip Blank	-	-	W	3						X													

Signature	Company	Date	Time	Comments/Special Instructions
<u>August Wedel</u>	<u>CDM</u>	<u>6/28/11</u>	<u>1342</u>	<u>⊗ Added 6/28/11 .PB (STA)</u> <u>○ Added 7/15/11 .PB (STA)</u>
<u>[Signature]</u>	<u>OSB</u>	<u>6/28/11</u>	<u>1342</u>	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>		



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

October 6, 2011

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-937
Laboratory Reference No. 1109-208

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on September 29, 2011.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 6, 2011
Samples Submitted: September 29, 2011
Laboratory Reference: 1109-208
Project: 2007-098-937

Case Narrative

Samples were collected on September 29, 2011 and received by the laboratory on September 29, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles (soil) EPA 8260B 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.

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.

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-4					
Laboratory ID:	09-208-01					
Dichlorodifluoromethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0047	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0047	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0047	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0047	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-4					
Laboratory ID:	09-208-01					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0047	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-8					
Laboratory ID:	09-208-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0059	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0059	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0059	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0059	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-8					
Laboratory ID:	09-208-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0059	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-13					
Laboratory ID:	09-208-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	0.0067	0.0057	EPA 8260	9-30-11	9-30-11	H
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-13					
Laboratory ID:	09-208-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0057	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>85</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B6-4					
Laboratory ID:	09-208-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0063	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B6-4					
Laboratory ID:	09-208-04					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0063	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B6-8					
Laboratory ID:	09-208-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0052	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0052	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0052	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0052	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B6-8					
Laboratory ID:	09-208-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0052	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-4					
Laboratory ID:	09-208-07					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0064	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0064	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0064	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0064	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-4					
Laboratory ID:	09-208-07					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0064	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-8					
Laboratory ID:	09-208-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0063	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-8					
Laboratory ID:	09-208-08					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0063	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-13					
Laboratory ID:	09-208-09					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0061	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0061	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0061	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0061	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-13					
Laboratory ID:	09-208-09					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0061	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B10-4					
Laboratory ID:	09-208-12					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0062	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0062	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0062	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0062	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B10-4					
Laboratory ID:	09-208-12					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0062	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B10-8					
Laboratory ID:	09-208-13					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0057	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B10-8					
Laboratory ID:	09-208-13					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0057	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0930S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chloromethane	ND	0.0050	EPA 8260	9-30-11	9-30-11	
Vinyl Chloride	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromomethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chloroethane	ND	0.0050	EPA 8260	9-30-11	9-30-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Iodomethane	ND	0.0050	EPA 8260	9-30-11	9-30-11	
Methylene Chloride	ND	0.0050	EPA 8260	9-30-11	9-30-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromochloromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chloroform	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Trichloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Dibromomethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromodichloromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	9-30-11	9-30-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	9-30-11	9-30-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0930S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Tetrachloroethene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Dibromochloromethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Chlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromoform	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Bromobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	9-30-11	9-30-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	9-30-11	9-30-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	9-30-11	9-30-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	9-30-11	9-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>120</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>55-121</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0930S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0515	0.0461	0.0500	0.0500	103	92	70-130	11	19	
Benzene	0.0515	0.0471	0.0500	0.0500	103	94	70-125	9	15	
Trichloroethene	0.0526	0.0484	0.0500	0.0500	105	97	70-122	8	14	
Toluene	0.0535	0.0594	0.0500	0.0500	107	119	73-120	10	16	
Chlorobenzene	0.0455	0.0466	0.0500	0.0500	91	93	74-109	2	12	
<i>Surrogate:</i>										
Dibromofluoromethane					100	88	63-127			
Toluene-d8					103	115	65-129			
4-Bromofluorobenzene					88	90	55-121			

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B6-W					
Laboratory ID:	09-208-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloromethane	2.2	1.0	EPA 8260	10-3-11	10-3-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Iodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Methylene Chloride	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroform	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Trichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-3-11	10-3-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B6-W					
Laboratory ID:	09-208-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Tetrachloroethene	1.3	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Bromobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-120</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-W					
Laboratory ID:	09-208-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloromethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Iodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Methylene Chloride	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroform	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Trichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-3-11	10-3-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B7-W					
Laboratory ID:	09-208-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Bromobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-W					
Laboratory ID:	09-208-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloromethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Iodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Methylene Chloride	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroform	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Trichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-3-11	10-3-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B5-W					
Laboratory ID:	09-208-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Tetrachloroethene	7.5	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Bromobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>84</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>79</i>	<i>65-120</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B10-W					
Laboratory ID:	09-208-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloromethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Iodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Methylene Chloride	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroform	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Trichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-3-11	10-3-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B10-W					
Laboratory ID:	09-208-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Bromobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>79</i>	<i>65-120</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1					
Laboratory ID:	09-208-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloromethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Iodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Methylene Chloride	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroform	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Trichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-3-11	10-3-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1					
Laboratory ID:	09-208-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Bromobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>84</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1003W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloromethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Iodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Methylene Chloride	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chloroform	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Trichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-3-11	10-3-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1003W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Chlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Bromobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>81</i>	<i>65-120</i>				

Date of Report: October 6, 2011
 Samples Submitted: September 29, 2011
 Laboratory Reference: 1109-208
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1003W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.63	8.50	10.0	10.0	86	85	70-130	2	11	
Benzene	8.81	8.84	10.0	10.0	88	88	75-123	0	8	
Trichloroethene	9.49	9.29	10.0	10.0	95	93	80-113	2	9	
Toluene	9.25	9.21	10.0	10.0	93	92	80-113	0	8	
Chlorobenzene	9.89	9.55	10.0	10.0	99	96	80-111	3	8	
<i>Surrogate:</i>										
Dibromofluoromethane					81	79	68-120			
Toluene-d8					84	79	73-120			
4-Bromofluorobenzene					78	74	65-120			

Date of Report: October 6, 2011
Samples Submitted: September 29, 2011
Laboratory Reference: 1109-208
Project: 2007-098-937

% MOISTURE

Date Analyzed: 9-30-11

Client ID	Lab ID	% Moisture
CH-B5-4	09-208-01	3
CH-B5-8	09-208-02	4
CH-B5-13	09-208-03	3
CH-B6-4	09-208-04	9
CH-B6-8	09-208-05	3
CH-B7-4	09-208-07	2
CH-B7-8	09-208-08	3
CH-B7-13	09-208-09	5
CH-B10-4	09-208-12	7
CH-B10-8	09-208-13	11



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



HWA GEOSCIENCES INC.

19730 64th Ave. W., Suite 200, Lynnwood, WA 98036 (425) 774-0106

Chain of Custody and Laboratory Analysis Request

DATE: 9/24/11
PAGE: 1 of 1

09-208

PROJECT NAME: Bedwell Crossroads # 2007-098-937

SITE CODE: _____

SAMPLERS NAME: P. Peron PHONE: 206 394 3113

SAMPLERS SIGNATURE: _____

HWA CONTACT: A. Sygar PHONE: 425 394 0106

HWA SAMPLE ID DATE TIME MATRIX LAB ID # OF BOTTLE REMARKS

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE	REMARKS
CH-B5-f	9/24/11	9:10	S	1	4	X STD TAR
CH-B5-8		9:20	S	2	4	
CH-B5-13		9:30	S	3	4	
CH-B6-f		11:10	S	4	4	
CH-B6-8		11:20	S	5	4	
CH-B6-w		12:20	H ₂ O	6	2	
CH-B7-f		12:40	S	7	4	
CH-B7-8		12:50	S	8	4	
CH-B7-13		13:00	S	9	4	
CH-B7-w		13:30	H ₂ O	10	2	
CH-B5-w		14:30	H ₂ O	11	2	
CH-B10-f		15:10	S	12	4	
CH-B10-8		15:20	S	13	4	
CH-B10-w		15:30	H ₂ O	14	2	
CH-B10-f						
CH-B10-8						
CH-B10-w						
TR						

ANALYSIS REQUESTED									
M VOCs									

PRINT NAME SIGNATURE COMPANY DATE TIME REMARKS

Relinquished by: Rob Pearson [Signature] HWA 9/29/11 16:00

Received by: Vance Adams [Signature] HWA 9/24/11 16:00

Relinquished by: [Signature] [Signature] [Signature] 9/29/11 15:30

Received by: MVON [Signature] [Signature] 9/29/11 16:30

DISTRIBUTION: WHITE - Return to HWA; YELLOW - Retain by Lab; PINK - Retain by Sampler



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

October 10, 2011

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-937
Laboratory Reference No. 1109-230

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on September 30, 2011.

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

Date of Report: October 10, 2011
Samples Submitted: September 30, 2011
Laboratory Reference: 1109-230
Project: 2007-098-937

Case Narrative

Samples were collected on September 30, 2011 and received by the laboratory on September 30, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles (soil) EPA 8260B 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.

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.

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B1-3					
Laboratory ID:	09-230-04					
Dichlorodifluoromethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0069	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0069	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0069	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0069	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B1-3					
Laboratory ID:	09-230-04					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	0.18	0.0014	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0069	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B1-7					
Laboratory ID:	09-230-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0056	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B1-7					
Laboratory ID:	09-230-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	0.0041	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-2					
Laboratory ID:	09-230-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chloromethane	ND	0.0054	EPA 8260	10-7-11	10-7-11	
Vinyl Chloride	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromomethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chloroethane	ND	0.0054	EPA 8260	10-7-11	10-7-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Iodomethane	ND	0.0054	EPA 8260	10-7-11	10-7-11	
Methylene Chloride	ND	0.0054	EPA 8260	10-7-11	10-7-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromochloromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chloroform	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Trichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Dibromomethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromodichloromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260	10-7-11	10-7-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-7-11	10-7-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-2					
Laboratory ID:	09-230-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Tetrachloroethene	0.017	0.0011	EPA 8260	10-7-11	10-7-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Dibromochloromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chlorobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromoform	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260	10-7-11	10-7-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Hexachlorobutadiene	ND	0.0054	EPA 8260	10-7-11	10-7-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-4					
Laboratory ID:	09-230-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chloromethane	ND	0.0054	EPA 8260	10-7-11	10-7-11	
Vinyl Chloride	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromomethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chloroethane	ND	0.0054	EPA 8260	10-7-11	10-7-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Iodomethane	ND	0.0054	EPA 8260	10-7-11	10-7-11	
Methylene Chloride	0.0091	0.0054	EPA 8260	10-7-11	10-7-11	H
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromochloromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chloroform	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Trichloroethene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Dibromomethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromodichloromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260	10-7-11	10-7-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-7-11	10-7-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-4					
Laboratory ID:	09-230-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Tetrachloroethene	0.016	0.0011	EPA 8260	10-7-11	10-7-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Dibromochloromethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Chlorobenzene	ND	0.0011	EPA 8260	10-7-11	10-7-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromoform	ND	0.0011	EPA 8260	10-7-11	10-7-11	
Bromobenzene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	10-7-11	10-8-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	10-7-11	10-8-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	10-7-11	10-8-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	10-7-11	10-8-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-8-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-6					
Laboratory ID:	09-230-09					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0056	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-6					
Laboratory ID:	09-230-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-3					
Laboratory ID:	09-230-11					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0057	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0057	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0057	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0057	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-3					
Laboratory ID:	09-230-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0057	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	63-127				
<i>Toluene-d8</i>	99	65-129				
<i>4-Bromofluorobenzene</i>	99	55-121				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-6					
Laboratory ID:	09-230-12					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0056	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-6					
Laboratory ID:	09-230-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-8					
Laboratory ID:	09-230-13					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0054	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0054	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0054	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0054	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-8					
Laboratory ID:	09-230-13					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0054	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-3					
Laboratory ID:	09-230-15					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0065	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0065	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0065	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0065	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-3					
Laboratory ID:	09-230-15					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0065	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-6					
Laboratory ID:	09-230-16					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0060	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0060	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0060	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0060	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-6					
Laboratory ID:	09-230-16					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0060	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-8					
Laboratory ID:	09-230-17					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0061	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0061	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0061	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0061	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-8					
Laboratory ID:	09-230-17					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0061	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B9-1.5					
Laboratory ID:	09-230-22					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0058	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0058	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0058	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0058	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B9-1.5					
Laboratory ID:	09-230-22					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0058	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B9-7					
Laboratory ID:	09-230-23					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0059	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0059	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0059	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0059	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B9-7					
Laboratory ID:	09-230-23					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Tetrachloroethene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0059	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1006S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Chloromethane	ND	0.0050	EPA 8260	10-6-11	10-6-11	
Vinyl Chloride	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Bromomethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Chloroethane	ND	0.0050	EPA 8260	10-6-11	10-6-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Iodomethane	ND	0.0050	EPA 8260	10-6-11	10-6-11	
Methylene Chloride	ND	0.0050	EPA 8260	10-6-11	10-6-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Bromochloromethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Chloroform	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Trichloroethene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Dibromomethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Bromodichloromethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	10-6-11	10-6-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	10-6-11	10-6-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1006S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Tetrachloroethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Dibromochloromethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Chlorobenzene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Bromoform	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Bromobenzene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	10-6-11	10-6-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	10-6-11	10-6-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	10-6-11	10-6-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	10-6-11	10-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1007S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Chloromethane	ND	0.0050	EPA 8260	10-7-11	10-7-11	
Vinyl Chloride	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Bromomethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Chloroethane	ND	0.0050	EPA 8260	10-7-11	10-7-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Iodomethane	ND	0.0050	EPA 8260	10-7-11	10-7-11	
Methylene Chloride	ND	0.0050	EPA 8260	10-7-11	10-7-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Bromochloromethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Chloroform	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Trichloroethene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Dibromomethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Bromodichloromethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	10-7-11	10-7-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	10-7-11	10-7-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1007S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Tetrachloroethene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Dibromochloromethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Chlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Bromoform	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Bromobenzene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	10-7-11	10-7-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	10-7-11	10-7-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	10-7-11	10-7-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	10-7-11	10-7-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>55-121</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1006S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0560	0.0605	0.0500	0.0500	112	121	70-130	8	19	
Benzene	0.0476	0.0516	0.0500	0.0500	95	103	70-125	8	15	
Trichloroethene	0.0496	0.0534	0.0500	0.0500	99	107	70-122	7	14	
Toluene	0.0482	0.0521	0.0500	0.0500	96	104	73-120	8	16	
Chlorobenzene	0.0503	0.0545	0.0500	0.0500	101	109	74-109	8	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					100	107	63-127			
<i>Toluene-d8</i>					100	106	65-129			
<i>4-Bromofluorobenzene</i>					99	106	55-121			
Laboratory ID:	SB1007S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0603	0.0628	0.0500	0.0500	121	126	70-130	4	19	
Benzene	0.0520	0.0540	0.0500	0.0500	104	108	70-125	4	15	
Trichloroethene	0.0541	0.0553	0.0500	0.0500	108	111	70-122	2	14	
Toluene	0.0526	0.0539	0.0500	0.0500	105	108	73-120	2	16	
Chlorobenzene	0.0536	0.0541	0.0500	0.0500	107	108	74-109	1	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					111	111	63-127			
<i>Toluene-d8</i>					110	110	65-129			
<i>4-Bromofluorobenzene</i>					110	111	55-121			

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B8-W					
Laboratory ID:	09-230-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Acetone	ND	5.0	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Carbon Disulfide	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Vinyl Acetate	ND	2.0	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Butanone	ND	5.0	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Benzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	10-5-11	10-5-11	
Toluene	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B8-W					
Laboratory ID:	09-230-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Hexanone	ND	2.0	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Ethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
m,p-Xylene	ND	0.40	EPA 8260	10-5-11	10-5-11	
o-Xylene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Styrene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Isopropylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
n-Propylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
tert-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
sec-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
n-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Naphthalene	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B1-W					
Laboratory ID:	09-230-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	0.84	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	3.1	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B1-W					
Laboratory ID:	09-230-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	46	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>84</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-W					
Laboratory ID:	09-230-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	0.75	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	1.0	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B2-W					
Laboratory ID:	09-230-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	31	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-W					
Laboratory ID:	09-230-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B3-W					
Laboratory ID:	09-230-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	3.6	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-W					
Laboratory ID:	09-230-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B4-W					
Laboratory ID:	09-230-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	0.30	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>81</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B11-W					
Laboratory ID:	09-230-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B11-W					
Laboratory ID:	09-230-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B12-W					
Laboratory ID:	09-230-20					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B12-W					
Laboratory ID:	09-230-20					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B13-W					
Laboratory ID:	09-230-21					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B13-W					
Laboratory ID:	09-230-21					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B9-W					
Laboratory ID:	09-230-24					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Acetone	ND	5.0	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Carbon Disulfide	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Vinyl Acetate	ND	2.0	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Butanone	ND	5.0	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Benzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	10-5-11	10-5-11	
Toluene	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-B9-W					
Laboratory ID:	09-230-24					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Hexanone	ND	2.0	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Ethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
m,p-Xylene	ND	0.40	EPA 8260	10-5-11	10-5-11	
o-Xylene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Styrene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Isopropylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
n-Propylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
tert-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
sec-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
n-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Naphthalene	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>79</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-DUP-1					
Laboratory ID:	09-230-25					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	0.71	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	0.98	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CH-DUP-1					
Laboratory ID:	09-230-25					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	34	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-2					
Laboratory ID:	09-230-26					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-2					
Laboratory ID:	09-230-26					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1005W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloromethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Acetone	ND	5.0	EPA 8260	10-5-11	10-5-11	
Iodomethane	ND	1.0	EPA 8260	10-5-11	10-5-11	
Carbon Disulfide	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methylene Chloride	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Vinyl Acetate	ND	2.0	EPA 8260	10-5-11	10-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Butanone	ND	5.0	EPA 8260	10-5-11	10-5-11	
Bromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chloroform	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Benzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Trichloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Dibromomethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-5-11	10-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	10-5-11	10-5-11	
Toluene	ND	1.0	EPA 8260	10-5-11	10-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-5-11	10-5-11	

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1005W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Hexanone	ND	2.0	EPA 8260	10-5-11	10-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Chlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
Ethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
m,p-Xylene	ND	0.40	EPA 8260	10-5-11	10-5-11	
o-Xylene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Styrene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromoform	ND	1.0	EPA 8260	10-5-11	10-5-11	
Isopropylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Bromobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-5-11	10-5-11	
n-Propylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
tert-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
sec-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
n-Butylbenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	10-5-11	10-5-11	
Naphthalene	ND	1.0	EPA 8260	10-5-11	10-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-5-11	10-5-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: October 10, 2011
 Samples Submitted: September 30, 2011
 Laboratory Reference: 1109-230
 Project: 2007-098-937

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1005W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.61	8.58	10.0	10.0	86	86	70-130	0	11	
Benzene	9.13	9.33	10.0	10.0	91	93	75-123	2	8	
Trichloroethene	9.37	9.32	10.0	10.0	94	93	80-113	1	9	
Toluene	9.34	9.29	10.0	10.0	93	93	80-113	1	8	
Chlorobenzene	9.78	9.63	10.0	10.0	98	96	80-111	2	8	
<i>Surrogate:</i>										
Dibromofluoromethane					84	82	68-120			
Toluene-d8					84	80	73-120			
4-Bromofluorobenzene					78	77	65-120			

Date of Report: October 10, 2011
Samples Submitted: September 30, 2011
Laboratory Reference: 1109-230
Project: 2007-098-937

% MOISTURE

Date Analyzed: 10-6-11

Client ID	Lab ID	% Moisture
CH-B1-3	09-230-04	25
CH-B1-7	09-230-05	18
CH-B2-2	09-230-07	5
CH-B2-4	09-230-08	4
CH-B2-6	09-230-09	4
CH-B3-3	09-230-11	6
CH-B3-6	09-230-12	2
CH-B3-8	09-230-13	3
CH-B4-3	09-230-15	4
CH-B4-6	09-230-16	2
CH-B4-8	09-230-17	3
CH-B9-1.5	09-230-22	4
CH-B9-7	09-230-23	11



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference



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

November 16, 2011

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098
Laboratory Reference No. 1111-078

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 11, 2011.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: November 16, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-078
Project: 2007-098

Case Narrative

Samples were collected on November 10, 2011 and received by the laboratory on November 11, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles (soil) EPA 8260B 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.

Internal Standard 1,4-Dichlorobenzene-d4 does not meet acceptance criteria for sample SD-3-S due to sample matrix effects. The sample was re-analyzed with similar results. All results, including Practical Quantitation Limits, from Bromobenzene onward should be considered estimates.

Halogenated Volatiles (water) EPA 8260B Analysis

Some MTCA Method A cleanup levels are non-achievable for samples SD-3-W, SS-1-W, and SS-2-W due to sample matrix effects.

The VOA vials provided for samples SS-1-W and SS-2-W contained headspace.

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.

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-1-W					
Laboratory ID:	11-078-01					
Dichlorodifluoromethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Chloromethane	ND	20	EPA 8260	11-14-11	11-14-11	
Vinyl Chloride	20	4.0	EPA 8260	11-14-11	11-14-11	
Bromomethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Chloroethane	ND	20	EPA 8260	11-14-11	11-14-11	
Trichlorofluoromethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethene	ND	4.0	EPA 8260	11-14-11	11-14-11	
Iodomethane	ND	20	EPA 8260	11-14-11	11-14-11	
Methylene Chloride	ND	20	EPA 8260	11-14-11	11-14-11	
(trans) 1,2-Dichloroethene	4.7	4.0	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
2,2-Dichloropropane	ND	4.0	EPA 8260	11-14-11	11-14-11	
(cis) 1,2-Dichloroethene	420	4.0	EPA 8260	11-14-11	11-14-11	
Bromochloromethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Chloroform	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,1,1-Trichloroethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Carbon Tetrachloride	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,1-Dichloropropene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,2-Dichloroethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Trichloroethene	95	4.0	EPA 8260	11-14-11	11-14-11	
1,2-Dichloropropane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Dibromomethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Bromodichloromethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260	11-14-11	11-14-11	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260	11-14-11	11-14-11	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260	11-14-11	11-14-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-1-W					
Laboratory ID:	11-078-01					
1,1,2-Trichloroethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Tetrachloroethene	330	4.0	EPA 8260	11-14-11	11-14-11	
1,3-Dichloropropane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Dibromochloromethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,2-Dibromoethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Chlorobenzene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
Bromoform	ND	20	EPA 8260	11-14-11	11-14-11	
Bromobenzene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichloropropane	ND	4.0	EPA 8260	11-14-11	11-14-11	
2-Chlorotoluene	ND	4.0	EPA 8260	11-14-11	11-14-11	
4-Chlorotoluene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,3-Dichlorobenzene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,4-Dichlorobenzene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,2-Dichlorobenzene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260	11-14-11	11-14-11	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260	11-14-11	11-14-11	
Hexachlorobutadiene	ND	4.0	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260	11-14-11	11-14-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>81</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-2-W					
Laboratory ID:	11-078-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromomethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
Iodomethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Methylene Chloride	ND	1.0	EPA 8260	11-14-11	11-14-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
(cis) 1,2-Dichloroethene	0.31	0.20	EPA 8260	11-14-11	11-14-11	
Bromochloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloroform	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Trichloroethene	0.43	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Dibromomethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-14-11	11-14-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-2-W					
Laboratory ID:	11-078-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Tetrachloroethene	2.4	0.20	EPA 8260	11-14-11	11-14-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromoform	ND	1.0	EPA 8260	11-14-11	11-14-11	
Bromobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-14-11	11-14-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-3-W					
Laboratory ID:	11-078-04					
Dichlorodifluoromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Chloromethane	ND	5.0	EPA 8260	11-14-11	11-14-11	
Vinyl Chloride	ND	1.0	EPA 8260	11-14-11	11-14-11	
Bromomethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Chloroethane	ND	5.0	EPA 8260	11-14-11	11-14-11	
Trichlorofluoromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethene	ND	1.0	EPA 8260	11-14-11	11-14-11	
Iodomethane	ND	5.0	EPA 8260	11-14-11	11-14-11	
Methylene Chloride	ND	5.0	EPA 8260	11-14-11	11-14-11	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
2,2-Dichloropropane	ND	1.0	EPA 8260	11-14-11	11-14-11	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260	11-14-11	11-14-11	
Bromochloromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Chloroform	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,1,1-Trichloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Carbon Tetrachloride	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,1-Dichloropropene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2-Dichloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Trichloroethene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2-Dichloropropane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Dibromomethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Bromodichloromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260	11-14-11	11-14-11	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260	11-14-11	11-14-11	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260	11-14-11	11-14-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-3-W					
Laboratory ID:	11-078-04					
1,1,2-Trichloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Tetrachloroethene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,3-Dichloropropane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Dibromochloromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2-Dibromoethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Chlorobenzene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Bromoform	ND	5.0	EPA 8260	11-14-11	11-14-11	
Bromobenzene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichloropropane	ND	1.0	EPA 8260	11-14-11	11-14-11	
2-Chlorotoluene	ND	1.0	EPA 8260	11-14-11	11-14-11	
4-Chlorotoluene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,3-Dichlorobenzene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,4-Dichlorobenzene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2-Dichlorobenzene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260	11-14-11	11-14-11	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260	11-14-11	11-14-11	
Hexachlorobutadiene	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260	11-14-11	11-14-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>77</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>79</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-1-W					
Laboratory ID:	11-078-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chloromethane	ND	5.0	EPA 8260	11-15-11	11-15-11	
Vinyl Chloride	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromomethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chloroethane	ND	5.0	EPA 8260	11-15-11	11-15-11	
Trichlorofluoromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1-Dichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
Iodomethane	ND	5.0	EPA 8260	11-15-11	11-15-11	
Methylene Chloride	ND	5.0	EPA 8260	11-15-11	11-15-11	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1-Dichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
2,2-Dichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromochloromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chloroform	6.3	1.0	EPA 8260	11-15-11	11-15-11	
1,1,1-Trichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Carbon Tetrachloride	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1-Dichloropropene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Trichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Dibromomethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromodichloromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260	11-15-11	11-15-11	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260	11-15-11	11-15-11	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260	11-15-11	11-15-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-1-W					
Laboratory ID:	11-078-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Tetrachloroethene	8.7	1.0	EPA 8260	11-15-11	11-15-11	
1,3-Dichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Dibromochloromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dibromoethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromoform	ND	5.0	EPA 8260	11-15-11	11-15-11	
Bromobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2,3-Trichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
2-Chlorotoluene	ND	1.0	EPA 8260	11-15-11	11-15-11	
4-Chlorotoluene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,3-Dichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,4-Dichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260	11-15-11	11-15-11	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
Hexachlorobutadiene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>82</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>76</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-2-W					
Laboratory ID:	11-078-07					
Dichlorodifluoromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chloromethane	ND	5.0	EPA 8260	11-15-11	11-15-11	
Vinyl Chloride	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromomethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chloroethane	ND	5.0	EPA 8260	11-15-11	11-15-11	
Trichlorofluoromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1-Dichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
Iodomethane	ND	5.0	EPA 8260	11-15-11	11-15-11	
Methylene Chloride	ND	5.0	EPA 8260	11-15-11	11-15-11	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1-Dichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
2,2-Dichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromochloromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chloroform	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1,1-Trichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Carbon Tetrachloride	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1-Dichloropropene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Trichloroethene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Dibromomethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromodichloromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260	11-15-11	11-15-11	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260	11-15-11	11-15-11	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260	11-15-11	11-15-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-2-W					
Laboratory ID:	11-078-07					
1,1,2-Trichloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Tetrachloroethene	6.5	1.0	EPA 8260	11-15-11	11-15-11	
1,3-Dichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Dibromochloromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dibromoethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Chlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromoform	ND	5.0	EPA 8260	11-15-11	11-15-11	
Bromobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2,3-Trichloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
2-Chlorotoluene	ND	1.0	EPA 8260	11-15-11	11-15-11	
4-Chlorotoluene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,3-Dichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,4-Dichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260	11-15-11	11-15-11	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
Hexachlorobutadiene	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260	11-15-11	11-15-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>83</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>78</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-3-W					
Laboratory ID:	11-078-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromomethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
Iodomethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Methylene Chloride	ND	1.0	EPA 8260	11-14-11	11-14-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
(cis) 1,2-Dichloroethene	0.76	0.20	EPA 8260	11-14-11	11-14-11	
Bromochloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloroform	7.7	0.20	EPA 8260	11-14-11	11-14-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Trichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Dibromomethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromodichloromethane	0.32	0.20	EPA 8260	11-14-11	11-14-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-14-11	11-14-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-3-W					
Laboratory ID:	11-078-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Tetrachloroethene	12	0.20	EPA 8260	11-14-11	11-14-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromoform	ND	1.0	EPA 8260	11-14-11	11-14-11	
Bromobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-14-11	11-14-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>82</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1114W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloromethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromomethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloroethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
Iodomethane	ND	1.0	EPA 8260	11-14-11	11-14-11	
Methylene Chloride	ND	1.0	EPA 8260	11-14-11	11-14-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromochloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chloroform	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Trichloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Dibromomethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-14-11	11-14-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-14-11	11-14-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1114W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Tetrachloroethene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Chlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
Bromoform	ND	1.0	EPA 8260	11-14-11	11-14-11	
Bromobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-14-11	11-14-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-14-11	11-14-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-14-11	11-14-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-14-11	11-14-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-14-11	11-14-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>83</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1115W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Chloromethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-15-11	11-15-11	
Bromomethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Chloroethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-15-11	11-15-11	
Iodomethane	ND	1.0	EPA 8260	11-15-11	11-15-11	
Methylene Chloride	ND	1.0	EPA 8260	11-15-11	11-15-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-15-11	11-15-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-15-11	11-15-11	
Bromochloromethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Chloroform	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Trichloroethene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Dibromomethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-15-11	11-15-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-15-11	11-15-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-15-11	11-15-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1115W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Tetrachloroethene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Chlorobenzene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
Bromoform	ND	1.0	EPA 8260	11-15-11	11-15-11	
Bromobenzene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-15-11	11-15-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-15-11	11-15-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-15-11	11-15-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-15-11	11-15-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-15-11	11-15-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-15-11	11-15-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>82</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>78</i>	<i>65-120</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1114W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	12.0	12.0	10.0	10.0	120	120	70-130	0	11	
Benzene	9.46	9.51	10.0	10.0	95	95	75-123	1	8	
Trichloroethene	10.2	10.6	10.0	10.0	102	106	80-113	4	9	
Toluene	9.70	10.0	10.0	10.0	97	100	80-113	3	8	
Chlorobenzene	9.68	10.3	10.0	10.0	97	103	80-111	6	8	
<i>Surrogate:</i>										
Dibromofluoromethane					85	82	68-120			
Toluene-d8					87	83	73-120			
4-Bromofluorobenzene					81	79	65-120			

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1115W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.9	12.1	10.0	10.0	119	121	70-130	2	11	
Benzene	9.73	10.3	10.0	10.0	97	103	75-123	6	8	
Trichloroethene	10.1	10.5	10.0	10.0	101	105	80-113	4	9	
Toluene	9.70	10.4	10.0	10.0	97	104	80-113	7	8	
Chlorobenzene	10.1	10.1	10.0	10.0	101	101	80-111	0	8	
<i>Surrogate:</i>										
Dibromofluoromethane					85	87	68-120			
Toluene-d8					82	82	73-120			
4-Bromofluorobenzene					78	77	65-120			

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-2-S					
Laboratory ID:	11-078-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Chloromethane	ND	0.0067	EPA 8260	11-11-11	11-11-11	
Vinyl Chloride	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Bromomethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Chloroethane	ND	0.0067	EPA 8260	11-11-11	11-11-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Iodomethane	ND	0.0067	EPA 8260	11-11-11	11-11-11	
Methylene Chloride	ND	0.0067	EPA 8260	11-11-11	11-11-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
(cis) 1,2-Dichloroethene	0.0015	0.0013	EPA 8260	11-11-11	11-11-11	
Bromochloromethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Chloroform	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Trichloroethene	0.0078	0.0013	EPA 8260	11-11-11	11-11-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Dibromomethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Bromodichloromethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260	11-11-11	11-11-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	11-11-11	11-11-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-2-S					
Laboratory ID:	11-078-03					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Tetrachloroethene	0.0039	0.0013	EPA 8260	11-11-11	11-11-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Dibromochloromethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Chlorobenzene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Bromoform	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Bromobenzene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	11-11-11	11-11-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260	11-11-11	11-11-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
Hexachlorobutadiene	ND	0.0067	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	11-11-11	11-11-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>81</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>85</i>	<i>55-121</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-3-S					
Laboratory ID:	11-078-05					
Dichlorodifluoromethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Chloromethane	ND	0.0068	EPA 8260	11-11-11	11-11-11	
Vinyl Chloride	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Bromomethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Chloroethane	ND	0.0068	EPA 8260	11-11-11	11-11-11	
Trichlorofluoromethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Iodomethane	ND	0.0068	EPA 8260	11-11-11	11-11-11	
Methylene Chloride	ND	0.0068	EPA 8260	11-11-11	11-11-11	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
2,2-Dichloropropane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Bromochloromethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Chloroform	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Carbon Tetrachloride	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,1-Dichloropropene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,2-Dichloroethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Trichloroethene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,2-Dichloropropane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Dibromomethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Bromodichloromethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260	11-11-11	11-11-11	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260	11-11-11	11-11-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD-3-S					
Laboratory ID:	11-078-05					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Tetrachloroethene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,3-Dichloropropane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Dibromochloromethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,2-Dibromoethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Chlorobenzene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Bromoform	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Bromobenzene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260	11-11-11	11-11-11	
2-Chlorotoluene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
4-Chlorotoluene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260	11-11-11	11-11-11	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
Hexachlorobutadiene	ND	0.0068	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260	11-11-11	11-11-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>75</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>70</i>	<i>55-121</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-SED					
Laboratory ID:	11-078-09					
Dichlorodifluoromethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Chloromethane	ND	0.025	EPA 8260	11-11-11	11-11-11	
Vinyl Chloride	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Bromomethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Chloroethane	ND	0.025	EPA 8260	11-11-11	11-11-11	
Trichlorofluoromethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethene	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Iodomethane	ND	0.025	EPA 8260	11-11-11	11-11-11	
Methylene Chloride	ND	0.025	EPA 8260	11-11-11	11-11-11	
(trans) 1,2-Dichloroethene	ND	0.0050	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
2,2-Dichloropropane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
(cis) 1,2-Dichloroethene	0.075	0.0050	EPA 8260	11-11-11	11-11-11	
Bromochloromethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Chloroform	ND	0.0050	EPA 8260	11-11-11	11-11-11	
1,1,1-Trichloroethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Carbon Tetrachloride	ND	0.0050	EPA 8260	11-11-11	11-11-11	
1,1-Dichloropropene	ND	0.0050	EPA 8260	11-11-11	11-11-11	
1,2-Dichloroethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Trichloroethene	0.034	0.0050	EPA 8260	11-11-11	11-11-11	
1,2-Dichloropropane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Dibromomethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Bromodichloromethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
2-Chloroethyl Vinyl Ether	ND	0.025	EPA 8260	11-11-11	11-11-11	
(cis) 1,3-Dichloropropene	ND	0.0050	EPA 8260	11-11-11	11-11-11	
(trans) 1,3-Dichloropropene	ND	0.46	EPA 8260	11-11-11	11-11-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-SED					
Laboratory ID:	11-078-09					
1,1,2-Trichloroethane	ND	0.46	EPA 8260	11-11-11	11-11-11	
Tetrachloroethene	0.75	0.46	EPA 8260	11-11-11	11-11-11	
1,3-Dichloropropane	ND	0.46	EPA 8260	11-11-11	11-11-11	
Dibromochloromethane	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,2-Dibromoethane	ND	0.46	EPA 8260	11-11-11	11-11-11	
Chlorobenzene	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,1,1,2-Tetrachloroethane	ND	0.46	EPA 8260	11-11-11	11-11-11	
Bromoform	ND	0.46	EPA 8260	11-11-11	11-11-11	
Bromobenzene	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,1,2,2-Tetrachloroethane	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichloropropane	ND	0.46	EPA 8260	11-11-11	11-11-11	
2-Chlorotoluene	ND	0.46	EPA 8260	11-11-11	11-11-11	
4-Chlorotoluene	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,3-Dichlorobenzene	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,4-Dichlorobenzene	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,2-Dichlorobenzene	ND	0.46	EPA 8260	11-11-11	11-11-11	
1,2-Dibromo-3-chloropropane	ND	2.3	EPA 8260	11-11-11	11-11-11	
1,2,4-Trichlorobenzene	ND	0.46	EPA 8260	11-11-11	11-11-11	
Hexachlorobutadiene	ND	2.3	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichlorobenzene	ND	0.46	EPA 8260	11-11-11	11-11-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>84</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>70</i>	<i>55-121</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1111S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Chloromethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Vinyl Chloride	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Bromomethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Chloroethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Iodomethane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
Methylene Chloride	ND	0.0050	EPA 8260	11-11-11	11-11-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Bromochloromethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Chloroform	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Trichloroethene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Dibromomethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Bromodichloromethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	11-11-11	11-11-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	11-11-11	11-11-11	

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1111S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Tetrachloroethene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Dibromochloromethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Chlorobenzene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Bromoform	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Bromobenzene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	11-11-11	11-11-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	11-11-11	11-11-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	11-11-11	11-11-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	11-11-11	11-11-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>55-121</i>				

Date of Report: November 16, 2011
 Samples Submitted: November 11, 2011
 Laboratory Reference: 1111-078
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1111S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0511	0.0549	0.0500	0.0500	102	110	70-130	7	19	
Benzene	0.0439	0.0467	0.0500	0.0500	88	93	70-125	6	15	
Trichloroethene	0.0455	0.0465	0.0500	0.0500	91	93	70-122	2	14	
Toluene	0.0452	0.0460	0.0500	0.0500	90	92	73-120	2	16	
Chlorobenzene	0.0475	0.0487	0.0500	0.0500	95	97	74-109	2	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					76	80	63-127			
<i>Toluene-d8</i>					83	85	65-129			
<i>4-Bromofluorobenzene</i>					82	82	55-121			

Date of Report: November 16, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-078
Project: 2007-098

% MOISTURE

Date Analyzed: 11-11-11

Client ID	Lab ID	% Moisture
SD-2-S	11-078-03	23
SD-3-S	11-078-05	27
SS-SED	11-078-09	82



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



MVA OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

Laboratory Number:

11-078

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days) (TPH analysis 5 Days)

_____ (other)

Company: HVA Geo Services
 Project Number: 2007-098
 Project Name: Boston - Case Property
 Project Manager: A. Sugar
 Sampled by: ATKINS

Lab ID	Sample Identification	Date			Matrix	No. of Cont.	Laboratory Tests																	
		Sampled	Time Sampled	Received			NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture	
1	SD-1-w	11/10/11	1500		w	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
2	SD-2-w		1530		w	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
3	SD-2-s		1540		s	4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X
4	SD-3-w		1545		w	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X
5	SD-3-s		1605		s	4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X
6	SS-1-w		1645		w	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
7	SS-2-w		1700		w	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
8	SS-3-w		1715		w	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
9	SS-SSD		1730		s	4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X

Signature

Company

HVA

Date

11/11/11

Time

1025

Comments/Special Instructions

Case Site

11/11/11

1025

Reviewed/Date

Reviewed/Date

Chromatograms with final report



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

November 21, 2011

Pete Pearson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098
Laboratory Reference No. 1111-141

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on November 18, 2011.

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

Date of Report: November 21, 2011
Samples Submitted: November 18, 2011
Laboratory Reference: 1111-141
Project: 2007-098

Case Narrative

Samples were collected on November 18, 2011 and received by the laboratory on November 18, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles (soil) EPA 8260B 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.

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.

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-1111					
Laboratory ID:	11-141-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	1.0	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroform	1.2	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Trichloroethene	0.36	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-1111					
Laboratory ID:	11-141-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	8.4	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	1.0	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>80</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>74</i>	<i>65-120</i>				

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-1111					
Laboratory ID:	11-141-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	1.0	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	0.29	0.20	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroform	1.2	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-1111					
Laboratory ID:	11-141-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	3.2	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	1.0	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>82</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>73</i>	<i>65-120</i>				

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-1111					
Laboratory ID:	11-141-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	1.0	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-1111					
Laboratory ID:	11-141-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	0.94	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	1.0	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-120</i>				

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD4W					
Laboratory ID:	11-141-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	1.0	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SD4W					
Laboratory ID:	11-141-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	1.0	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-120</i>				

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	1.0	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	1.0	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>82</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>76</i>	<i>65-120</i>				

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1121W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.63	8.24	10.0	10.0	86	82	70-130	5	11	
Benzene	8.18	8.09	10.0	10.0	82	81	75-123	1	8	
Trichloroethene	9.45	9.13	10.0	10.0	95	91	80-113	3	9	
Toluene	9.27	8.96	10.0	10.0	93	90	80-113	3	8	
Chlorobenzene	9.47	9.26	10.0	10.0	95	93	80-111	2	8	
<i>Surrogate:</i>										
Dibromofluoromethane					84	84	68-120			
Toluene-d8					83	82	73-120			
4-Bromofluorobenzene					73	75	65-120			

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HH-1-4					
Laboratory ID:	11-141-02					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Chloromethane	ND	0.0063	EPA 8260	11-18-11	11-18-11	
Vinyl Chloride	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Bromomethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Chloroethane	ND	0.0063	EPA 8260	11-18-11	11-18-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Iodomethane	ND	0.0063	EPA 8260	11-18-11	11-18-11	
Methylene Chloride	ND	0.0063	EPA 8260	11-18-11	11-18-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Bromochloromethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Chloroform	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Trichloroethene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Dibromomethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Bromodichloromethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260	11-18-11	11-18-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	11-18-11	11-18-11	

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HH-1-4					
Laboratory ID:	11-141-02					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Tetrachloroethene	0.0019	0.0013	EPA 8260	11-18-11	11-18-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Dibromochloromethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Chlorobenzene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Bromoform	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Bromobenzene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	11-18-11	11-18-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260	11-18-11	11-18-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
Hexachlorobutadiene	ND	0.0063	EPA 8260	11-18-11	11-18-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	11-18-11	11-18-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	63-127				
<i>Toluene-d8</i>	95	65-129				
<i>4-Bromofluorobenzene</i>	89	55-121				

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1118S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Chloromethane	ND	0.0050	EPA 8260	11-18-11	11-18-11	
Vinyl Chloride	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Bromomethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Chloroethane	ND	0.0050	EPA 8260	11-18-11	11-18-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Iodomethane	ND	0.0050	EPA 8260	11-18-11	11-18-11	
Methylene Chloride	ND	0.0050	EPA 8260	11-18-11	11-18-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Bromochloromethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Chloroform	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Trichloroethene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Dibromomethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Bromodichloromethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	11-18-11	11-18-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	11-18-11	11-18-11	

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1118S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Tetrachloroethene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Dibromochloromethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Chlorobenzene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Bromoform	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Bromobenzene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	11-18-11	11-18-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	11-18-11	11-18-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	11-18-11	11-18-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	11-18-11	11-18-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>55-121</i>				

Date of Report: November 21, 2011
 Samples Submitted: November 18, 2011
 Laboratory Reference: 1111-141
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1118S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0486	0.0500	0.0500	0.0500	97	100	70-130	3	19	
Benzene	0.0444	0.0454	0.0500	0.0500	89	91	70-125	2	15	
Trichloroethene	0.0458	0.0456	0.0500	0.0500	92	91	70-122	0	14	
Toluene	0.0460	0.0474	0.0500	0.0500	92	95	73-120	3	16	
Chlorobenzene	0.0463	0.0481	0.0500	0.0500	93	96	74-109	4	12	
<i>Surrogate:</i>										
Dibromofluoromethane					80	77	63-127			
Toluene-d8					88	85	65-129			
4-Bromofluorobenzene					83	81	55-121			

Date of Report: November 21, 2011
Samples Submitted: November 18, 2011
Laboratory Reference: 1111-141
Project: 2007-098

% MOISTURE

Date Analyzed: 11-18-11

Client ID	Lab ID	% Moisture
HH-1-4	11-141-02	7



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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

November 22, 2011

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098
Laboratory Reference No. 1111-152

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 21, 2011.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right from the end of the signature.

David Baumeister
Project Manager

Enclosures

Date of Report: November 22, 2011
Samples Submitted: November 21, 2011
Laboratory Reference: 1111-152
Project: 2007-098

Case Narrative

Samples were collected on November 21, 2011 and received by the laboratory on November 21, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles (soil) EPA 8260B 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.

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.

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Vent-1					
Laboratory ID:	11-152-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	1.0	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Vent-1					
Laboratory ID:	11-152-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	1.1	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	1.0	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>81</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>74</i>	<i>65-120</i>				

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	1.0	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	1.0	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	11-21-11	11-21-11	

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	1.0	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>82</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>76</i>	<i>65-120</i>				

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1121W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.63	8.24	10.0	10.0	86	82	70-130	5	11	
Benzene	8.18	8.09	10.0	10.0	82	81	75-123	1	8	
Trichloroethene	9.45	9.13	10.0	10.0	95	91	80-113	3	9	
Toluene	9.27	8.96	10.0	10.0	93	90	80-113	3	8	
Chlorobenzene	9.47	9.26	10.0	10.0	95	93	80-111	2	8	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>84</i>	<i>84</i>	<i>68-120</i>			
<i>Toluene-d8</i>					<i>83</i>	<i>82</i>	<i>73-120</i>			
<i>4-Bromofluorobenzene</i>					<i>73</i>	<i>75</i>	<i>65-120</i>			

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-N					
Laboratory ID:	11-152-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	0.0056	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	11-21-11	11-21-11	

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-N					
Laboratory ID:	11-152-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	0.0098	0.0011	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>55-121</i>				

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-S					
Laboratory ID:	11-152-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	0.0056	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	11-21-11	11-21-11	

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

HALOGENATED VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-S					
Laboratory ID:	11-152-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	0.0092	0.0011	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>55-121</i>				

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Chloromethane	ND	0.0050	EPA 8260	11-21-11	11-21-11	
Vinyl Chloride	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Bromomethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Chloroethane	ND	0.0050	EPA 8260	11-21-11	11-21-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Iodomethane	ND	0.0050	EPA 8260	11-21-11	11-21-11	
Methylene Chloride	ND	0.0050	EPA 8260	11-21-11	11-21-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Bromochloromethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Chloroform	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Trichloroethene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Dibromomethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Bromodichloromethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	11-21-11	11-21-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	11-21-11	11-21-11	

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Tetrachloroethene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Dibromochloromethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Chlorobenzene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Bromoform	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Bromobenzene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	11-21-11	11-21-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	11-21-11	11-21-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	11-21-11	11-21-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	11-21-11	11-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>55-121</i>				

Date of Report: November 22, 2011
 Samples Submitted: November 21, 2011
 Laboratory Reference: 1111-152
 Project: 2007-098

**HALOGENATED VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1121S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0489	0.0493	0.0500	0.0500	98	99	70-130	1	19	
Benzene	0.0456	0.0454	0.0500	0.0500	91	91	70-125	0	15	
Trichloroethene	0.0460	0.0454	0.0500	0.0500	92	91	70-122	1	14	
Toluene	0.0467	0.0469	0.0500	0.0500	93	94	73-120	0	16	
Chlorobenzene	0.0469	0.0458	0.0500	0.0500	94	92	74-109	2	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>81</i>	<i>80</i>	<i>63-127</i>			
<i>Toluene-d8</i>					<i>89</i>	<i>89</i>	<i>65-129</i>			
<i>4-Bromofluorobenzene</i>					<i>86</i>	<i>84</i>	<i>55-121</i>			

Date of Report: November 22, 2011
Samples Submitted: November 21, 2011
Laboratory Reference: 1111-152
Project: 2007-098

% MOISTURE

Date Analyzed: 11-21-11

Client ID	Lab ID	% Moisture
SB-N	11-152-02	8
SB-S	11-152-03	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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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

December 23, 2011

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098
Laboratory Reference No. 1112-122

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on December 16, 2011.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: December 23, 2011
Samples Submitted: December 16, 2011
Laboratory Reference: 1112-122
Project: 2007-098

Case Narrative

Samples were collected on December 14 and 15, 2011 and received by the laboratory on December 16, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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 8260B (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.

The values reported for Acetone in samples PSD-B4-2 and PSD-B4-4 exceed the calibration range and are therefore estimates. The samples were re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

Internal Standard 1,4-Dichlorobenzene-d4 is outside control limits for sample PSD-B1-5 due to sample matrix effects. The sample was re-analyzed with similar results. All results, including Practical Quantitation Limits, from Bromobenzene onward should be considered estimates.

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.

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B3-3					
Laboratory ID:	12-122-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0054	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0054	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.011	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0054	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0054	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0054	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0054	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Trichloroethene	0.0063	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0054	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0054	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B3-3					
Laboratory ID:	12-122-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	0.15	0.0011	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0054	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0021	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0054	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B3-6					
Laboratory ID:	12-122-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloromethane	ND	0.0054	EPA 8260	12-21-11	12-21-11	
Vinyl Chloride	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromomethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloroethane	ND	0.0054	EPA 8260	12-21-11	12-21-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Acetone	ND	0.011	EPA 8260	12-21-11	12-21-11	
Iodomethane	ND	0.0054	EPA 8260	12-21-11	12-21-11	
Carbon Disulfide	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methylene Chloride	ND	0.0054	EPA 8260	12-21-11	12-21-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Vinyl Acetate	ND	0.0054	EPA 8260	12-21-11	12-21-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Butanone	ND	0.0054	EPA 8260	12-21-11	12-21-11	
Bromochloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloroform	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Benzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Trichloroethene	0.013	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Dibromomethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromodichloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260	12-21-11	12-21-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methyl Isobutyl Ketone	ND	0.0054	EPA 8260	12-21-11	12-21-11	
Toluene	ND	0.0054	EPA 8260	12-21-11	12-21-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B3-6					
Laboratory ID:	12-122-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Tetrachloroethene	0.12	0.071	EPA 8260	12-21-11	12-21-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Hexanone	ND	0.0054	EPA 8260	12-21-11	12-21-11	
Dibromochloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Ethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
m,p-Xylene	ND	0.0022	EPA 8260	12-21-11	12-21-11	
o-Xylene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Styrene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromoform	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Isopropylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.0054	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B4-2					
Laboratory ID:	12-122-03					
Dichlorodifluoromethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0074	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0074	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Acetone	0.77	0.015	EPA 8260	12-20-11	12-20-11	E
Iodomethane	ND	0.0074	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0074	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0074	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	0.0029	0.0015	EPA 8260	12-20-11	12-20-11	
2-Butanone	0.15	0.0074	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Trichloroethene	0.0024	0.0015	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0074	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0074	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B4-2					
Laboratory ID:	12-122-03					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0074	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0030	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0015	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.11	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.11	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.55	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.55	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.11	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.11	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>72</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B4-4					
Laboratory ID:	12-122-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0053	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0053	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Acetone	0.32	0.011	EPA 8260	12-20-11	12-20-11	E
Iodomethane	ND	0.0053	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0053	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0053	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	0.0013	0.0011	EPA 8260	12-20-11	12-20-11	
2-Butanone	0.047	0.0053	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0053	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B4-4					
Laboratory ID:	12-122-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0053	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0021	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.075	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.075	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.38	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.38	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.075	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.075	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>69</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B1-2					
Laboratory ID:	12-122-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.011	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0056	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0056	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0056	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B1-2					
Laboratory ID:	12-122-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0022	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B1-5					
Laboratory ID:	12-122-06					
Dichlorodifluoromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Acetone	0.018	0.014	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0069	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0069	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0069	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B1-5					
Laboratory ID:	12-122-06					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0028	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B1-8					
Laboratory ID:	12-122-07					
Dichlorodifluoromethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0049	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0049	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Acetone	0.026	0.0097	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0049	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0049	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0049	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0049	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0049	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B1-8					
Laboratory ID:	12-122-07					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0049	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0019	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0049	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-2					
Laboratory ID:	12-122-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0065	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0065	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.013	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0065	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0065	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0065	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0065	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0065	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0065	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-2					
Laboratory ID:	12-122-08					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0065	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0026	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0065	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-5					
Laboratory ID:	12-122-09					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0062	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0062	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.012	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0062	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0062	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0062	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0062	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0062	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-5					
Laboratory ID:	12-122-09					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0062	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0025	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0062	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-8					
Laboratory ID:	12-122-10					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloromethane	ND	0.0055	EPA 8260	12-21-11	12-21-11	
Vinyl Chloride	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromomethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloroethane	ND	0.0055	EPA 8260	12-21-11	12-21-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Acetone	0.077	0.011	EPA 8260	12-21-11	12-21-11	
Iodomethane	ND	0.0055	EPA 8260	12-21-11	12-21-11	
Carbon Disulfide	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methylene Chloride	ND	0.0055	EPA 8260	12-21-11	12-21-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Vinyl Acetate	ND	0.0055	EPA 8260	12-21-11	12-21-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Butanone	0.014	0.0055	EPA 8260	12-21-11	12-21-11	
Bromochloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloroform	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Benzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Trichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Dibromomethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromodichloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260	12-21-11	12-21-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260	12-21-11	12-21-11	
Toluene	ND	0.0055	EPA 8260	12-21-11	12-21-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-8					
Laboratory ID:	12-122-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Tetrachloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Hexanone	ND	0.0055	EPA 8260	12-21-11	12-21-11	
Dibromochloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Ethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
m,p-Xylene	ND	0.0022	EPA 8260	12-21-11	12-21-11	
o-Xylene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Styrene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromoform	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Isopropylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.0055	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B5-3					
Laboratory ID:	12-122-12					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloromethane	ND	0.0057	EPA 8260	12-21-11	12-21-11	
Vinyl Chloride	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromomethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloroethane	ND	0.0057	EPA 8260	12-21-11	12-21-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Acetone	0.20	0.011	EPA 8260	12-21-11	12-21-11	
Iodomethane	ND	0.0057	EPA 8260	12-21-11	12-21-11	
Carbon Disulfide	0.0011	0.0011	EPA 8260	12-21-11	12-21-11	
Methylene Chloride	ND	0.0057	EPA 8260	12-21-11	12-21-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Vinyl Acetate	ND	0.0057	EPA 8260	12-21-11	12-21-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Butanone	0.047	0.0057	EPA 8260	12-21-11	12-21-11	
Bromochloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chloroform	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Benzene	0.0014	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Trichloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Dibromomethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromodichloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260	12-21-11	12-21-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260	12-21-11	12-21-11	
Toluene	ND	0.0057	EPA 8260	12-21-11	12-21-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-21-11	12-21-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B5-3					
Laboratory ID:	12-122-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Tetrachloroethene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Hexanone	ND	0.0057	EPA 8260	12-21-11	12-21-11	
Dibromochloromethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Chlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Ethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
m,p-Xylene	ND	0.0023	EPA 8260	12-21-11	12-21-11	
o-Xylene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Styrene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromoform	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Isopropylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Bromobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	0.0038	0.0011	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.0057	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>81</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B5-6					
Laboratory ID:	12-122-13					
Dichlorodifluoromethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Chloromethane	ND	0.0049	EPA 8260	12-21-11	12-21-11	
Vinyl Chloride	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Bromomethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Chloroethane	ND	0.0049	EPA 8260	12-21-11	12-21-11	
Trichlorofluoromethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Acetone	ND	0.0099	EPA 8260	12-21-11	12-21-11	
Iodomethane	ND	0.0049	EPA 8260	12-21-11	12-21-11	
Carbon Disulfide	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Methylene Chloride	ND	0.0049	EPA 8260	12-21-11	12-21-11	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Methyl t-Butyl Ether	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Vinyl Acetate	ND	0.0049	EPA 8260	12-21-11	12-21-11	
2,2-Dichloropropane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
2-Butanone	ND	0.0049	EPA 8260	12-21-11	12-21-11	
Bromochloromethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Chloroform	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Carbon Tetrachloride	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,1-Dichloropropene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Benzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2-Dichloroethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Trichloroethene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2-Dichloropropane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Dibromomethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Bromodichloromethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260	12-21-11	12-21-11	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260	12-21-11	12-21-11	
Toluene	ND	0.0049	EPA 8260	12-21-11	12-21-11	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260	12-21-11	12-21-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B5-6					
Laboratory ID:	12-122-13					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Tetrachloroethene	0.0068	0.00099	EPA 8260	12-21-11	12-21-11	
1,3-Dichloropropane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
2-Hexanone	ND	0.0049	EPA 8260	12-21-11	12-21-11	
Dibromochloromethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2-Dibromoethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Chlorobenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Ethylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
m,p-Xylene	ND	0.0020	EPA 8260	12-21-11	12-21-11	
o-Xylene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Styrene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Bromoform	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Isopropylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Bromobenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.0049	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B6-3					
Laboratory ID:	12-122-15					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chloromethane	ND	0.0059	EPA 8260	12-21-11	12-21-11	
Vinyl Chloride	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromomethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chloroethane	ND	0.0059	EPA 8260	12-21-11	12-21-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Acetone	ND	0.012	EPA 8260	12-21-11	12-21-11	
Iodomethane	ND	0.0059	EPA 8260	12-21-11	12-21-11	
Carbon Disulfide	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Methylene Chloride	ND	0.0059	EPA 8260	12-21-11	12-21-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Vinyl Acetate	ND	0.0059	EPA 8260	12-21-11	12-21-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Butanone	ND	0.0059	EPA 8260	12-21-11	12-21-11	
Bromochloromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chloroform	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Benzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Trichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Dibromomethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromodichloromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260	12-21-11	12-21-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260	12-21-11	12-21-11	
Toluene	ND	0.0059	EPA 8260	12-21-11	12-21-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-21-11	12-21-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B6-3					
Laboratory ID:	12-122-15					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Tetrachloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Hexanone	ND	0.0059	EPA 8260	12-21-11	12-21-11	
Dibromochloromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Ethylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
m,p-Xylene	ND	0.0023	EPA 8260	12-21-11	12-21-11	
o-Xylene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Styrene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromoform	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Isopropylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.0059	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B6-6					
Laboratory ID:	12-122-16					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chloromethane	ND	0.0062	EPA 8260	12-21-11	12-21-11	
Vinyl Chloride	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromomethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chloroethane	ND	0.0062	EPA 8260	12-21-11	12-21-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Acetone	ND	0.012	EPA 8260	12-21-11	12-21-11	
Iodomethane	ND	0.0062	EPA 8260	12-21-11	12-21-11	
Carbon Disulfide	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Methylene Chloride	ND	0.0062	EPA 8260	12-21-11	12-21-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Vinyl Acetate	ND	0.0062	EPA 8260	12-21-11	12-21-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Butanone	ND	0.0062	EPA 8260	12-21-11	12-21-11	
Bromochloromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chloroform	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Benzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Trichloroethene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Dibromomethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromodichloromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260	12-21-11	12-21-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260	12-21-11	12-21-11	
Toluene	ND	0.0062	EPA 8260	12-21-11	12-21-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-21-11	12-21-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B6-6					
Laboratory ID:	12-122-16					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Tetrachloroethene	0.0026	0.0012	EPA 8260	12-21-11	12-21-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Hexanone	ND	0.0062	EPA 8260	12-21-11	12-21-11	
Dibromochloromethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Chlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Ethylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
m,p-Xylene	ND	0.0025	EPA 8260	12-21-11	12-21-11	
o-Xylene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Styrene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromoform	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Isopropylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Bromobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.0062	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.010	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0050	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0020	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1221S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Chloromethane	ND	0.0050	EPA 8260	12-21-11	12-21-11	
Vinyl Chloride	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Bromomethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Chloroethane	ND	0.0050	EPA 8260	12-21-11	12-21-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Acetone	ND	0.010	EPA 8260	12-21-11	12-21-11	
Iodomethane	ND	0.0050	EPA 8260	12-21-11	12-21-11	
Carbon Disulfide	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Methylene Chloride	ND	0.0050	EPA 8260	12-21-11	12-21-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Vinyl Acetate	ND	0.0050	EPA 8260	12-21-11	12-21-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
2-Butanone	ND	0.0050	EPA 8260	12-21-11	12-21-11	
Bromochloromethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Chloroform	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Benzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Trichloroethene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Dibromomethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Bromodichloromethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	12-21-11	12-21-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	12-21-11	12-21-11	
Toluene	ND	0.0050	EPA 8260	12-21-11	12-21-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-21-11	12-21-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1221S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Tetrachloroethene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
2-Hexanone	ND	0.0050	EPA 8260	12-21-11	12-21-11	
Dibromochloromethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Chlorobenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Ethylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
m,p-Xylene	ND	0.0020	EPA 8260	12-21-11	12-21-11	
o-Xylene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Styrene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Bromoform	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Isopropylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Bromobenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	12-21-11	12-21-11	
n-Propylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
n-Butylbenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	12-21-11	12-21-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	12-21-11	12-21-11	
Naphthalene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	12-21-11	12-21-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>55-121</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1220S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0571	0.0569	0.0500	0.0500	114	114	70-130	0	19	
Benzene	0.0509	0.0516	0.0500	0.0500	102	103	70-125	1	15	
Trichloroethene	0.0477	0.0465	0.0500	0.0500	95	93	70-122	3	14	
Toluene	0.0500	0.0475	0.0500	0.0500	100	95	73-120	5	16	
Chlorobenzene	0.0450	0.0427	0.0500	0.0500	90	85	74-109	5	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					83	85	63-127			
<i>Toluene-d8</i>					89	90	65-129			
<i>4-Bromofluorobenzene</i>					86	86	55-121			
Laboratory ID:	SB1221S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0573	0.0566	0.0500	0.0500	115	113	70-130	1	19	
Benzene	0.0529	0.0532	0.0500	0.0500	106	106	70-125	1	15	
Trichloroethene	0.0499	0.0483	0.0500	0.0500	100	97	70-122	3	14	
Toluene	0.0507	0.0495	0.0500	0.0500	101	99	73-120	2	16	
Chlorobenzene	0.0442	0.0438	0.0500	0.0500	88	88	74-109	1	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					83	82	63-127			
<i>Toluene-d8</i>					89	88	65-129			
<i>4-Bromofluorobenzene</i>					83	86	55-121			

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-W					
Laboratory ID:	12-122-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B2-W					
Laboratory ID:	12-122-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>65-120</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B5-W					
Laboratory ID:	12-122-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	2.0	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	4.1	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	0.59	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PSD-B5-W					
Laboratory ID:	12-122-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	1.3	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>65-120</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1-121511					
Laboratory ID:	12-122-17					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1-121511					
Laboratory ID:	12-122-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>84</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>65-120</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>65-120</i>				

Date of Report: December 23, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-122
 Project: 2007-098

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1220W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.6	10.0	10.0	107	106	70-130	1	11	
Benzene	9.05	9.19	10.0	10.0	91	92	75-123	2	8	
Trichloroethene	10.4	10.0	10.0	10.0	104	100	80-113	4	9	
Toluene	9.75	9.56	10.0	10.0	98	96	80-113	2	8	
Chlorobenzene	10.8	10.3	10.0	10.0	108	103	80-111	5	8	
<i>Surrogate:</i>										
Dibromofluoromethane					77	78	68-120			
Toluene-d8					83	83	73-120			
4-Bromofluorobenzene					82	83	65-120			

Date of Report: December 23, 2011
Samples Submitted: December 16, 2011
Laboratory Reference: 1112-122
Project: 2007-098

% MOISTURE

Date Analyzed: 12-20-11

Client ID	Lab ID	% Moisture
PSD-B3-3	12-122-01	7
PSD-B3-6	12-122-02	19
PSD-B4-2	12-122-03	29
PSD-B4-4	12-122-04	27
PSD-B1-2	12-122-05	8
PSD-B1-5	12-122-06	18
PSD-B1-8	12-122-07	20
PSD-B2-2	12-122-08	13
PSD-B2-5	12-122-09	16
PSD-B2-8	12-122-10	26
PSD-B5-3	12-122-12	11
PSD-B5-6	12-122-13	11
PSD-B6-3	12-122-15	13
PSD-B6-6	12-122-16	7



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



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

December 22, 2011

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098
Laboratory Reference No. 1112-123

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on December 16, 2011.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: December 22, 2011
Samples Submitted: December 16, 2011
Laboratory Reference: 1112-123
Project: 2007-098

Case Narrative

Samples were collected on December 16, 2011 and received by the laboratory on December 16, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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 8260B (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.

The value reported for Acetone in sample CB-6-5 exceeds the calibration range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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.

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-5					
Laboratory ID:	12-123-01					
Dichlorodifluoromethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.016	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.016	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Acetone	1.2	0.031	EPA 8260	12-20-11	12-20-11	E
Iodomethane	ND	0.016	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.016	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0031	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.016	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
2-Butanone	0.13	0.016	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Chloroform	0.0033	0.0031	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0031	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.016	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.016	EPA 8260	12-20-11	12-20-11	
Toluene	0.36	0.016	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0031	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-5					
Laboratory ID:	12-123-01					
1,1,2-Trichloroethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	0.014	0.0031	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.016	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0062	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0031	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.17	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.17	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	0.37	0.17	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.86	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.86	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.17	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.17	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.010	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0050	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0020	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1220S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0571	0.0569	0.0500	0.0500	114	114	70-130	0	19	
Benzene	0.0509	0.0516	0.0500	0.0500	102	103	70-125	1	15	
Trichloroethene	0.0477	0.0465	0.0500	0.0500	95	93	70-122	3	14	
Toluene	0.0500	0.0475	0.0500	0.0500	100	95	73-120	5	16	
Chlorobenzene	0.0450	0.0427	0.0500	0.0500	90	85	74-109	5	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					83	85	63-127			
<i>Toluene-d8</i>					89	90	65-129			
<i>4-Bromofluorobenzene</i>					86	86	55-121			

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-W					
Laboratory ID:	12-123-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	22	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	20	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	3.2	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	0.33	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-W					
Laboratory ID:	12-123-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	89	68-120				
<i>Toluene-d8</i>	89	73-120				
<i>4-Bromofluorobenzene</i>	93	65-120				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>65-120</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-123
 Project: 2007-098

VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1220W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.6	10.0	10.0	107	106	70-130	1	11	
Benzene	9.05	9.19	10.0	10.0	91	92	75-123	2	8	
Trichloroethene	10.4	10.0	10.0	10.0	104	100	80-113	4	9	
Toluene	9.75	9.56	10.0	10.0	98	96	80-113	2	8	
Chlorobenzene	10.8	10.3	10.0	10.0	108	103	80-111	5	8	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					77	78	68-120			
<i>Toluene-d8</i>					83	83	73-120			
<i>4-Bromofluorobenzene</i>					82	83	65-120			

Date of Report: December 22, 2011
Samples Submitted: December 16, 2011
Laboratory Reference: 1112-123
Project: 2007-098

% MOISTURE

Date Analyzed: 12-19-11

Client ID	Lab ID	% Moisture
CB-6-5	12-123-01	50



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



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

December 22, 2011

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098
Laboratory Reference No. 1112-124

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on December 16, 2011.

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

Date of Report: December 22, 2011
Samples Submitted: December 16, 2011
Laboratory Reference: 1112-124
Project: 2007-098

Case Narrative

Samples were collected on December 15, 2011 and received by the laboratory on December 16, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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 8260B (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.

The value reported for Acetone in sample ESS-B2-6 exceeds the calibration range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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.

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B1-5					
Laboratory ID:	12-124-01					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chloromethane	ND	0.0061	EPA 8260	12-19-11	12-19-11	
Vinyl Chloride	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromomethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chloroethane	ND	0.0061	EPA 8260	12-19-11	12-19-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Acetone	0.066	0.012	EPA 8260	12-19-11	12-19-11	
Iodomethane	ND	0.0061	EPA 8260	12-19-11	12-19-11	
Carbon Disulfide	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Methylene Chloride	ND	0.0061	EPA 8260	12-19-11	12-19-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Vinyl Acetate	ND	0.0061	EPA 8260	12-19-11	12-19-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Butanone	0.0064	0.0061	EPA 8260	12-19-11	12-19-11	
Bromochloromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chloroform	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Benzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Trichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Dibromomethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromodichloromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260	12-19-11	12-19-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Methyl Isobutyl Ketone	ND	0.0061	EPA 8260	12-19-11	12-19-11	
Toluene	ND	0.0061	EPA 8260	12-19-11	12-19-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-19-11	12-19-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B1-5					
Laboratory ID:	12-124-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Tetrachloroethene	0.0017	0.0012	EPA 8260	12-19-11	12-19-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Hexanone	ND	0.0061	EPA 8260	12-19-11	12-19-11	
Dibromochloromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Ethylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
m,p-Xylene	ND	0.0024	EPA 8260	12-19-11	12-19-11	
o-Xylene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Styrene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromoform	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Isopropylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
n-Propylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
n-Butylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260	12-19-11	12-19-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Hexachlorobutadiene	ND	0.0061	EPA 8260	12-19-11	12-19-11	
Naphthalene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B2-6					
Laboratory ID:	12-124-03					
Dichlorodifluoromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	0.0024	0.0014	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Acetone	0.40	0.014	EPA 8260	12-20-11	12-20-11	E
Iodomethane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0069	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0069	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	0.0041	0.0014	EPA 8260	12-20-11	12-20-11	
2-Butanone	0.077	0.0069	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0069	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B2-6					
Laboratory ID:	12-124-03					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0028	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0069	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>79</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B1-7					
Laboratory ID:	12-124-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.011	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0056	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0056	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0056	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B1-7					
Laboratory ID:	12-124-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0023	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0056	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B2-7					
Laboratory ID:	12-124-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chloromethane	ND	0.0060	EPA 8260	12-19-11	12-19-11	
Vinyl Chloride	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromomethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chloroethane	ND	0.0060	EPA 8260	12-19-11	12-19-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Acetone	ND	0.012	EPA 8260	12-19-11	12-19-11	
Iodomethane	ND	0.0060	EPA 8260	12-19-11	12-19-11	
Carbon Disulfide	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Methylene Chloride	ND	0.0060	EPA 8260	12-19-11	12-19-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Vinyl Acetate	ND	0.0060	EPA 8260	12-19-11	12-19-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Butanone	ND	0.0060	EPA 8260	12-19-11	12-19-11	
Bromochloromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chloroform	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Benzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Trichloroethene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Dibromomethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromodichloromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260	12-19-11	12-19-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260	12-19-11	12-19-11	
Toluene	ND	0.0060	EPA 8260	12-19-11	12-19-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	12-19-11	12-19-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B2-7					
Laboratory ID:	12-124-07					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Tetrachloroethene	0.0084	0.0012	EPA 8260	12-19-11	12-19-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Hexanone	ND	0.0060	EPA 8260	12-19-11	12-19-11	
Dibromochloromethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Chlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Ethylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
m,p-Xylene	ND	0.0024	EPA 8260	12-19-11	12-19-11	
o-Xylene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Styrene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromoform	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Isopropylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Bromobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	12-19-11	12-19-11	
n-Propylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
n-Butylbenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260	12-19-11	12-19-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
Hexachlorobutadiene	ND	0.0060	EPA 8260	12-19-11	12-19-11	
Naphthalene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	12-19-11	12-19-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1219S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Chloromethane	ND	0.0050	EPA 8260	12-19-11	12-19-11	
Vinyl Chloride	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Bromomethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Chloroethane	ND	0.0050	EPA 8260	12-19-11	12-19-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Acetone	ND	0.010	EPA 8260	12-19-11	12-19-11	
Iodomethane	ND	0.0050	EPA 8260	12-19-11	12-19-11	
Carbon Disulfide	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Methylene Chloride	ND	0.0050	EPA 8260	12-19-11	12-19-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Vinyl Acetate	ND	0.0050	EPA 8260	12-19-11	12-19-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
2-Butanone	ND	0.0050	EPA 8260	12-19-11	12-19-11	
Bromochloromethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Chloroform	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Benzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Trichloroethene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Dibromomethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Bromodichloromethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	12-19-11	12-19-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	12-19-11	12-19-11	
Toluene	ND	0.0050	EPA 8260	12-19-11	12-19-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-19-11	12-19-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1219S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Tetrachloroethene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
2-Hexanone	ND	0.0050	EPA 8260	12-19-11	12-19-11	
Dibromochloromethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Chlorobenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Ethylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
m,p-Xylene	ND	0.0020	EPA 8260	12-19-11	12-19-11	
o-Xylene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Styrene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Bromoform	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Isopropylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Bromobenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	12-19-11	12-19-11	
n-Propylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
n-Butylbenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	12-19-11	12-19-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	12-19-11	12-19-11	
Naphthalene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	12-19-11	12-19-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Acetone	ND	0.010	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	0.0050	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Toluene	ND	0.0050	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.0020	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>55-121</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:		SB1219S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0559	0.0550	0.0500	0.0500	112	110	70-130	2	19	
Benzene	0.0514	0.0506	0.0500	0.0500	103	101	70-125	2	15	
Trichloroethene	0.0471	0.0470	0.0500	0.0500	94	94	70-122	0	14	
Toluene	0.0493	0.0484	0.0500	0.0500	99	97	73-120	2	16	
Chlorobenzene	0.0455	0.0432	0.0500	0.0500	91	86	74-109	5	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					89	84	63-127			
<i>Toluene-d8</i>					91	92	65-129			
<i>4-Bromofluorobenzene</i>					87	88	55-121			
Laboratory ID:		SB1220S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0571	0.0569	0.0500	0.0500	114	114	70-130	0	19	
Benzene	0.0509	0.0516	0.0500	0.0500	102	103	70-125	1	15	
Trichloroethene	0.0477	0.0465	0.0500	0.0500	95	93	70-122	3	14	
Toluene	0.0500	0.0475	0.0500	0.0500	100	95	73-120	5	16	
Chlorobenzene	0.0450	0.0427	0.0500	0.0500	90	85	74-109	5	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					83	85	63-127			
<i>Toluene-d8</i>					89	90	65-129			
<i>4-Bromofluorobenzene</i>					86	86	55-121			

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B1-W					
Laboratory ID:	12-124-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	0.28	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	0.58	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B1-W					
Laboratory ID:	12-124-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	13	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>65-120</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B2-W					
Laboratory ID:	12-124-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	0.22	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	0.61	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	0.25	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESS-B2-W					
Laboratory ID:	12-124-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	32	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>81</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>78</i>	<i>65-120</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B1-W					
Laboratory ID:	12-124-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	0.48	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	0.45	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	1.0	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B1-W					
Laboratory ID:	12-124-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	26	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>65-120</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B2-W					
Laboratory ID:	12-124-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	0.52	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	0.45	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ESD-B2-W					
Laboratory ID:	12-124-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	26	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>80</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>83</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>76</i>	<i>65-120</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloromethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Vinyl Chloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Acetone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Iodomethane	ND	1.0	EPA 8260	12-20-11	12-20-11	
Carbon Disulfide	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methylene Chloride	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Vinyl Acetate	ND	2.0	EPA 8260	12-20-11	12-20-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Butanone	ND	5.0	EPA 8260	12-20-11	12-20-11	
Bromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chloroform	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Benzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Trichloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Dibromomethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromodichloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	12-20-11	12-20-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Toluene	ND	1.0	EPA 8260	12-20-11	12-20-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	12-20-11	12-20-11	

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Tetrachloroethene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Hexanone	ND	2.0	EPA 8260	12-20-11	12-20-11	
Dibromochloromethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Chlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
Ethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
m,p-Xylene	ND	0.40	EPA 8260	12-20-11	12-20-11	
o-Xylene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Styrene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromoform	ND	1.0	EPA 8260	12-20-11	12-20-11	
Isopropylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Bromobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Propylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
2-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
4-Chlorotoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
tert-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
sec-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
n-Butylbenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	12-20-11	12-20-11	
Naphthalene	ND	1.0	EPA 8260	12-20-11	12-20-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	12-20-11	12-20-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>68-120</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>73-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>65-120</i>				

Date of Report: December 22, 2011
 Samples Submitted: December 16, 2011
 Laboratory Reference: 1112-124
 Project: 2007-098

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1220W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.6	10.0	10.0	107	106	70-130	1	11	
Benzene	9.05	9.19	10.0	10.0	91	92	75-123	2	8	
Trichloroethene	10.4	10.0	10.0	10.0	104	100	80-113	4	9	
Toluene	9.75	9.56	10.0	10.0	98	96	80-113	2	8	
Chlorobenzene	10.8	10.3	10.0	10.0	108	103	80-111	5	8	
<i>Surrogate:</i>										
Dibromofluoromethane					77	78	68-120			
Toluene-d8					83	83	73-120			
4-Bromofluorobenzene					82	83	65-120			

Date of Report: December 22, 2011
Samples Submitted: December 16, 2011
Laboratory Reference: 1112-124
Project: 2007-098

% MOISTURE

Date Analyzed: 12-19-11

Client ID	Lab ID	% Moisture
ESS-B1-5	12-124-01	22
ESS-B2-6	12-124-03	21
ESD-B1-7	12-124-05	10
ESD-B2-7	12-124-07	18



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-naphthalene) 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



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

May 17, 2013

Pam Morrill
CDM
14432 SE Eastgate Way, Suite 100
Bellevue, WA 98007-6493

Re: Analytical Data for Project 19897-96836
Laboratory Reference No. 1305-103

Dear Pam:

Enclosed are the analytical results and associated quality control data for samples submitted on May 10, 2013.

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

Date of Report: May 17, 2013
Samples Submitted: May 10, 2013
Laboratory Reference: 1305-103
Project: 19897-96836

Case Narrative

Samples were collected on May 9 and 10, 2013 and received by the laboratory on May 10, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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 and Halogenated Volatiles (soil) 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.

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.

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B30-8-05/13					
Laboratory ID:	05-103-08					
Gasoline	110	7.0	NWTPH-Gx	5-15-13	5-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	70-132				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515S1					
Gasoline	ND	5.0	NWTPH-Gx	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	70-132				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-111-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>			104	105	70-132			

Date of Report: May 17, 2013
Samples Submitted: May 10, 2013
Laboratory Reference: 1305-103
Project: 19897-96836

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B30-05/13					
Laboratory ID:	05-103-16					
Gasoline	330	100	NWTPH-Gx	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	71-116				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515W1					
Gasoline	ND	100	NWTPH-Gx	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	71-116				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-139-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				84	85	71-116		

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B37-14-05/13					
Laboratory ID:	05-103-01					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0058	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0058	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0058	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0076	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B37-14-05/13					
Laboratory ID:	05-103-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B36-3-05/13					
Laboratory ID:	05-103-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B36-3-05/13					
Laboratory ID:	05-103-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	0.0013	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B34-7-05/13					
Laboratory ID:	05-103-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0059	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0059	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0059	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0077	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B34-7-05/13					
Laboratory ID:	05-103-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	0.0015	0.0012	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	63-127				
<i>Toluene-d8</i>	93	65-129				
<i>4-Bromofluorobenzene</i>	83	52-125				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B33-7-05/13					
Laboratory ID:	05-103-04					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0096	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0019	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B33-7-05/13					
Laboratory ID:	05-103-04					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B32-2.5-05/13					
Laboratory ID:	05-103-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0070	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B32-2.5-05/13					
Laboratory ID:	05-103-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B00-2.5-05/13					
Laboratory ID:	05-103-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0071	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B00-2.5-05/13					
Laboratory ID:	05-103-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B31-9-05/13					
Laboratory ID:	05-103-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0074	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B31-9-05/13					
Laboratory ID:	05-103-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES + BTEX by EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B30-8-05/13					
Laboratory ID:	05-103-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0064	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0064	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0064	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0084	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Benzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Toluene	ND	0.0064	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES + BTEX by EPA 8260C

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B30-8-05/13					
Laboratory ID:	05-103-08					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Ethylbenzene	ND	0.071	EPA 8260C	5-16-13	5-16-13	
m,p-Xylene	ND	0.14	EPA 8260C	5-16-13	5-16-13	
o-Xylene	ND	0.071	EPA 8260C	5-16-13	5-16-13	
Bromoform	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0515S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Chloromethane	ND	0.0050	EPA 8260C	5-15-13	5-15-13	
Vinyl Chloride	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Bromomethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Chloroethane	ND	0.0050	EPA 8260C	5-15-13	5-15-13	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Iodomethane	ND	0.0050	EPA 8260C	5-15-13	5-15-13	
Methylene Chloride	ND	0.0065	EPA 8260C	5-15-13	5-15-13	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Bromochloromethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Chloroform	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Benzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Trichloroethene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	5-15-13	5-15-13	
Dibromomethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Bromodichloromethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	5-15-13	5-15-13	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Toluene	ND	0.0050	EPA 8260C	5-15-13	5-15-13	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0515S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Tetrachloroethene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Dibromochloromethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Chlorobenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Ethylbenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
m,p-Xylene	ND	0.0020	EPA 8260C	5-15-13	5-15-13	
o-Xylene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Bromoform	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Bromobenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
2-Chlorotoluene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
4-Chlorotoluene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	5-15-13	5-15-13	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	5-15-13	5-15-13	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	5-15-13	5-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0516S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Chloromethane	ND	0.0064	EPA 8260C	5-16-13	5-16-13	
Vinyl Chloride	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Bromomethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Chloroethane	ND	0.0050	EPA 8260C	5-16-13	5-16-13	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Iodomethane	ND	0.0050	EPA 8260C	5-16-13	5-16-13	
Methylene Chloride	ND	0.0069	EPA 8260C	5-16-13	5-16-13	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Bromochloromethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Chloroform	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Benzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Trichloroethene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	5-16-13	5-16-13	
Dibromomethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Bromodichloromethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	5-16-13	5-16-13	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Toluene	ND	0.0050	EPA 8260C	5-16-13	5-16-13	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0516S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Tetrachloroethene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	5-16-13	5-16-13	
Dibromochloromethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Chlorobenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Ethylbenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
m,p-Xylene	ND	0.0020	EPA 8260C	5-16-13	5-16-13	
o-Xylene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Bromoform	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Bromobenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	5-16-13	5-16-13	
2-Chlorotoluene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
4-Chlorotoluene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	5-16-13	5-16-13	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	5-16-13	5-16-13	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	5-16-13	5-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>52-125</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0515S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0365	0.0370	0.0500	0.0500	73	74	65-141	1	15	
Benzene	0.0397	0.0407	0.0500	0.0500	79	81	69-121	2	15	
Trichloroethene	0.0444	0.0451	0.0500	0.0500	89	90	75-120	2	15	
Toluene	0.0425	0.0433	0.0500	0.0500	85	87	75-120	2	15	
Chlorobenzene	0.0463	0.0467	0.0500	0.0500	93	93	75-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	96	63-127			
<i>Toluene-d8</i>					95	92	65-129			
<i>4-Bromofluorobenzene</i>					86	81	52-125			

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0516S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0456	0.0458	0.0500	0.0500	91	92	65-141	0	15	
Benzene	0.0432	0.0433	0.0500	0.0500	86	87	69-121	0	15	
Trichloroethene	0.0496	0.0499	0.0500	0.0500	99	100	75-120	1	15	
Toluene	0.0452	0.0464	0.0500	0.0500	90	93	75-120	3	15	
Chlorobenzene	0.0499	0.0507	0.0500	0.0500	100	101	75-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>97</i>	<i>100</i>	<i>63-127</i>			
<i>Toluene-d8</i>					<i>91</i>	<i>96</i>	<i>65-129</i>			
<i>4-Bromofluorobenzene</i>					<i>83</i>	<i>87</i>	<i>52-125</i>			

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B37-05/13					
Laboratory ID:	05-103-09					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	0.45	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	0.55	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B37-05/13					
Laboratory ID:	05-103-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	2.2	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B36-05/13					
Laboratory ID:	05-103-10					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B36-05/13					
Laboratory ID:	05-103-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B34-05/13					
Laboratory ID:	05-103-11					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	0.37	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	0.33	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B34-05/13					
Laboratory ID:	05-103-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	2.2	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B0-05/13					
Laboratory ID:	05-103-12					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	0.33	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	0.31	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B0-05/13					
Laboratory ID:	05-103-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	2.2	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B33-05/13					
Laboratory ID:	05-103-13					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	0.81	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B33-05/13					
Laboratory ID:	05-103-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B32-05/13					
Laboratory ID:	05-103-14					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B32-05/13					
Laboratory ID:	05-103-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B31-05/13					
Laboratory ID:	05-103-15					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B31-05/13					
Laboratory ID:	05-103-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES + BTEX by EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B30-05/13					
Laboratory ID:	05-103-16					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Benzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Toluene	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES + BTEX by EPA 8260C

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B30-05/13					
Laboratory ID:	05-103-16					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Ethylbenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
m,p-Xylene	ND	1.0	EPA 8260C	5-14-13	5-14-13	
o-Xylene	0.21	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IDW-W					
Laboratory ID:	05-103-17					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	4.2	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	1.6	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IDW-W					
Laboratory ID:	05-103-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	1.2	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-05/13					
Laboratory ID:	05-103-18					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

HALOGENATED VOLATILES by EPA 8260C
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-05/13					
Laboratory ID:	05-103-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0514W1					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Chloromethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroethane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Iodomethane	ND	1.3	EPA 8260C	5-14-13	5-14-13	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chloroform	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Benzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Trichloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromomethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Toluene	ND	1.0	EPA 8260C	5-14-13	5-14-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-13	5-14-13	

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0514W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Ethylbenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
m,p-Xylene	ND	1.0	EPA 8260C	5-14-13	5-14-13	
o-Xylene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
Bromoform	ND	1.0	EPA 8260C	5-14-13	5-14-13	
Bromobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-13	5-14-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-13	5-14-13	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	5-14-13	5-14-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-13	5-14-13	
1,2,3-Trichlorobenzene	ND	0.30	EPA 8260C	5-14-13	5-14-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>63-120</i>				

Date of Report: May 17, 2013
 Samples Submitted: May 10, 2013
 Laboratory Reference: 1305-103
 Project: 19897-96836

**HALOGENATED VOLATILES + BTEX by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0514W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.46	8.99	10.0	10.0	95	90	65-141	5	15	
Benzene	9.74	9.58	10.0	10.0	97	96	77-125	2	15	
Trichloroethene	9.80	9.67	10.0	10.0	98	97	80-125	1	15	
Toluene	9.67	9.70	10.0	10.0	97	97	80-125	0	15	
Chlorobenzene	10.5	10.2	10.0	10.0	105	102	80-140	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	98	66-120			
Toluene-d8					99	101	70-120			
4-Bromofluorobenzene					96	97	63-120			

Date of Report: May 17, 2013
Samples Submitted: May 10, 2013
Laboratory Reference: 1305-103
Project: 19897-96836

% MOISTURE

Date Analyzed: 5-14-13

Client ID	Lab ID	% Moisture
B37-14-05/13	05-103-01	21
B36-3-05/13	05-103-02	14
B34-7-05/13	05-103-03	21
B33-7-05/13	05-103-04	23
B32-2.5-05/13	05-103-05	12
B00-2.5-05/13	05-103-06	11
B31-9-05/13	05-103-07	16
B30-8-05/13	05-103-08	21



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-naphthalene) 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



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

June 29, 2016

Eric Buer
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1210-003
Laboratory Reference No. 1606-235B

Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on June 23, 2016.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 29, 2016
Samples Submitted: June 23, 2016
Laboratory Reference: 1606-235B
Project: 1210-003

Case Narrative

Samples were collected on June 22 and 23, 2016 and received by the laboratory on June 23, 2016. 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.



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-9-GW-22.0-062216					
Laboratory ID:	06-235-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloromethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromomethane	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Chloroethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Iodomethane	ND	1.5	EPA 8260C	6-27-16	6-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloroform	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Trichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromomethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-9-GW-22.0-062216					
Laboratory ID:	06-235-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Tetrachloroethene	0.86	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromoform	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Bromobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Hexachlorobutadiene	ND	0.25	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichlorobenzene	ND	1.4	EPA 8260C	6-27-16	6-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-9-GW-27.0-062216					
Laboratory ID:	06-235-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloromethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromomethane	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Chloroethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Iodomethane	ND	1.5	EPA 8260C	6-27-16	6-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloroform	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Trichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromomethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-9-GW-27.0-062216					
Laboratory ID:	06-235-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Tetrachloroethene	8.7	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromoform	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Bromobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Hexachlorobutadiene	ND	0.25	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichlorobenzene	ND	1.4	EPA 8260C	6-27-16	6-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-9-GW-32.0-062216					
Laboratory ID:	06-235-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloromethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromomethane	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Chloroethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Iodomethane	ND	1.5	EPA 8260C	6-27-16	6-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloroform	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Trichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromomethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-9-GW-32.0-062216					
Laboratory ID:	06-235-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Tetrachloroethene	5.8	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromoform	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Bromobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Hexachlorobutadiene	ND	0.25	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichlorobenzene	ND	1.4	EPA 8260C	6-27-16	6-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloromethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromomethane	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Chloroethane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Iodomethane	ND	1.5	EPA 8260C	6-27-16	6-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chloroform	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Trichloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromomethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-27-16	6-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-27-16	6-27-16	



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
Bromoform	ND	1.0	EPA 8260C	6-27-16	6-27-16	
Bromobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-27-16	6-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-27-16	6-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-27-16	6-27-16	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	6-27-16	6-27-16	
Hexachlorobutadiene	ND	0.25	EPA 8260C	6-27-16	6-27-16	
1,2,3-Trichlorobenzene	ND	1.4	EPA 8260C	6-27-16	6-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: June 29, 2016
 Samples Submitted: June 23, 2016
 Laboratory Reference: 1606-235B
 Project: 1210-003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0627W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.1	11.1	10.0	10.0	111	111	62-132	0	20	
Benzene	10.7	11.1	10.0	10.0	107	111	75-121	4	15	
Trichloroethene	9.80	9.65	10.0	10.0	98	97	65-115	2	15	
Toluene	10.6	10.6	10.0	10.0	106	106	78-120	0	15	
Chlorobenzene	10.0	10.1	10.0	10.0	100	101	77-118	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					108	110	71-131			
Toluene-d8					101	100	80-127			
4-Bromofluorobenzene					94	95	80-125			





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-naphthalene) 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





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

March 27, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-188

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 27, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-188
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 20, 2017 and received by the laboratory on March 21, 2017. 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.



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-10.5-GW					
Laboratory ID:	03-188-16					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Vinyl Chloride	0.20	0.20	EPA 8260C	3-22-17	3-22-17	
Bromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Iodomethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-22-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(cis) 1,2-Dichloroethene	3.1	0.20	EPA 8260C	3-22-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroform	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Trichloroethene	1.3	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-22-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-10.5-GW					
Laboratory ID:	03-188-16					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Tetrachloroethene	1.1	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-22-GW					
Laboratory ID:	03-188-17					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Iodomethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-22-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(cis) 1,2-Dichloroethene	9.0	0.20	EPA 8260C	3-22-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroform	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Trichloroethene	0.89	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-22-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-22-GW					
Laboratory ID:	03-188-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-36-GW					
Laboratory ID:	03-188-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Iodomethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-22-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroform	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Trichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-22-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-36-GW					
Laboratory ID:	03-188-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0322W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Iodomethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-22-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroform	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Trichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-22-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0322W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0322W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.5	11.2	10.0	10.0	115	112	63-127	3	17	
Benzene	11.0	11.1	10.0	10.0	110	111	76-121	1	12	
Trichloroethene	9.78	9.45	10.0	10.0	98	95	64-114	3	15	
Toluene	11.1	10.9	10.0	10.0	111	109	82-115	2	13	
Chlorobenzene	11.2	10.8	10.0	10.0	112	108	80-115	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					102	104	77-129			
Toluene-d8					101	100	80-127			
4-Bromofluorobenzene					95	98	80-125			



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-188-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-188-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0323W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0323W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0323W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	10.7	10.0	10.0	108	107	63-127	1	17	
Benzene	10.6	10.8	10.0	10.0	106	108	76-121	2	12	
Trichloroethene	9.81	9.43	10.0	10.0	98	94	64-114	4	15	
Toluene	11.1	10.9	10.0	10.0	111	109	82-115	2	13	
Chlorobenzene	11.0	10.5	10.0	10.0	110	105	80-115	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>101</i>	<i>110</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>99</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>94</i>	<i>97</i>	<i>80-125</i>			





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-naphthalene) 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





OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)
 (TPH analysis 5 Days)
- _____ (other)

Laboratory Number: **03-188**

Company: HWA Good Sciences
 Project Number: 2007-098-T2045
 Project Name: Ultral Purside HVC SR
 Project Manager: Arnie Sugar
 Sampled by: Nicole Kapsel

Lab ID Sample Identification Date Sampled Time Sampled Matrix

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	UCCB10-28.0	3/21/17	10:48	Soil
12	UCCB10-30.5		12:50	
13	UCCB10-33.0		12:47	
14	UCCB10-36.0		13:05	
15	UCCB10-38.0		13:10	
16	UCCB10-10.5 - GW		9:25	GW
17	UCCB10-22 - GW		12:35	GW
18	UCCB10-36 - GW		14:30	GW
19	TRIP BLANK			

Number of Containers

Parameter	Count
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

HOLD
 X X X X X

Signature Company Date Time Comments/Special Instructions

Relinquished	<u>[Signature]</u>	HWA	3/21/17	11:27am	
Received	<u>[Signature]</u>	ALPHA	3/21/17	11:27AM	
Relinquished	<u>[Signature]</u>	ALPHA	3/21/17	12:14PM	
Received	<u>[Signature]</u>	Q&E	3/21/17	12:14	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

March 31, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-188B

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 31, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-188B
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 20, 2017 and received by the laboratory on March 21, 2017. 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.

Halogenated 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.

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.



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-11.0					
Laboratory ID:	03-188-04					
Dichlorodifluoromethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB10-11.0					
Laboratory ID:	03-188-04					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-131</i>				



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0330S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0330S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-131</i>				



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-188B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0330S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0512	0.0556	0.0500	0.0500	102	111	66-127	8	15	
Benzene	0.0557	0.0587	0.0500	0.0500	111	117	76-122	5	15	
Trichloroethene	0.0556	0.0538	0.0500	0.0500	111	108	78-120	3	15	
Toluene	0.0587	0.0591	0.0500	0.0500	117	118	83-120	1	15	
Chlorobenzene	0.0558	0.0573	0.0500	0.0500	112	115	81-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					112	110	73-134			
<i>Toluene-d8</i>					106	107	81-124			
<i>4-Bromofluorobenzene</i>					104	107	80-131			



Date of Report: March 31, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-188B
Project: 2007-098-T2045

% MOISTURE

Date Analyzed: 3-30-17

Client ID	Lab ID	% Moisture
UCCB10-11.0	03-188-04	10





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-naphthalene) 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





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

March 24, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-196

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-196
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 21, 2017 and received by the laboratory on March 21, 2017. 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.



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-10-GW					
Laboratory ID:	03-196-17					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	3-3-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromomethane	ND	0.31	EPA 8260C	3-3-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Iodomethane	ND	1.4	EPA 8260C	3-3-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-3-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Chloroform	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Trichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-3-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-10-GW					
Laboratory ID:	03-196-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-25-GW					
Laboratory ID:	03-196-18					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	3-3-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromomethane	ND	0.31	EPA 8260C	3-3-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Iodomethane	ND	1.4	EPA 8260C	3-3-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-3-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
(cis) 1,2-Dichloroethene	3.7	0.20	EPA 8260C	3-3-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Chloroform	0.43	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Trichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-3-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-25-GW					
Laboratory ID:	03-196-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>120</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-37-GW					
Laboratory ID:	03-196-19					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	3-3-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromomethane	ND	0.31	EPA 8260C	3-3-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Iodomethane	ND	1.4	EPA 8260C	3-3-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-3-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Chloroform	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Trichloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-3-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-3-17	3-22-17	



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-37-GW					
Laboratory ID:	03-196-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-3-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-3-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-3-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-3-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0322W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloromethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Iodomethane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-22-17	3-22-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chloroform	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Trichloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromomethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-22-17	3-22-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-22-17	3-22-17	



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0322W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Bromoform	ND	1.0	EPA 8260C	3-22-17	3-22-17	
Bromobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-22-17	3-22-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-22-17	3-22-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-22-17	3-22-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0322W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.5	11.2	10.0	10.0	115	112	63-127	3	17	
Benzene	11.0	11.1	10.0	10.0	110	111	76-121	1	12	
Trichloroethene	9.78	9.45	10.0	10.0	98	95	64-114	3	15	
Toluene	11.1	10.9	10.0	10.0	111	109	82-115	2	13	
Chlorobenzene	11.2	10.8	10.0	10.0	112	108	80-115	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					102	104	77-129			
Toluene-d8					101	100	80-127			
4-Bromofluorobenzene					95	98	80-125			



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-196-27					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-196-27					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0323W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-23-17	3-23-17	



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0323W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	1.0	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-23-17	3-23-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: March 24, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0323W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	10.7	10.0	10.0	108	107	63-127	1	17	
Benzene	10.6	10.8	10.0	10.0	106	108	76-121	2	12	
Trichloroethene	9.81	9.43	10.0	10.0	98	94	64-114	4	15	
Toluene	11.1	10.9	10.0	10.0	111	109	82-115	2	13	
Chlorobenzene	11.0	10.5	10.0	10.0	110	105	80-115	5	14	
<i>Surrogate:</i>										
Dibromofluoromethane					101	110	77-129			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					94	97	80-125			





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-naphthalene) 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





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)
 (Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)
ATPH analysis 5 Days
- _____ (other)

Laboratory Number: 03-196

Company: HWA GeoSciences
 Project Number: 2007-098-T2045
 Project Name: Dike/Lowside HVC STA
 Project Manager: Arnie Sugar
 Sampled By: Nicole Karpse

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UCB1-3.0	3/21/17	7:48	Soil
2	UCB1-6.0		7:50	
3	UCB1-8.0		7:57	
4	UCB1-10.5		8:06	
5	UCB1-13.5		8:15	
6	UCB1-16.0		9:15	
7	UCB1-18.85		9:22	
8	UCB1-21.0		9:25	
9	UCB1-23.0		9:32	
10	UCB1-25.5		9:35	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1																		
4																		
4																		
4																		
4																		
4																		
4																		
4																		
4																		
4																		

Signature: Nicole Karpse
 Company: HWA
 Date: 3/21/17
 Time: 17:55

Comments/Special Instructions: ⓧ Add on 3/23/17 STA

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

March 31, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-196B

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: March 31, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-196B
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 21, 2017 and received by the laboratory on March 21, 2017. 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.

Halogenated 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.

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.



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-25.5					
Laboratory ID:	03-196-10					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	0.0016	0.00096	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB1-25.5					
Laboratory ID:	03-196-10					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-131</i>				



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0330S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0330S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-131</i>				



Date of Report: March 31, 2017
 Samples Submitted: March 21, 2017
 Laboratory Reference: 1703-196B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0330S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0512	0.0556	0.0500	0.0500	102	111	66-127	8	15	
Benzene	0.0557	0.0587	0.0500	0.0500	111	117	76-122	5	15	
Trichloroethene	0.0556	0.0538	0.0500	0.0500	111	108	78-120	3	15	
Toluene	0.0587	0.0591	0.0500	0.0500	117	118	83-120	1	15	
Chlorobenzene	0.0558	0.0573	0.0500	0.0500	112	115	81-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					112	110	73-134			
<i>Toluene-d8</i>					106	107	81-124			
<i>4-Bromofluorobenzene</i>					104	107	80-131			



Date of Report: March 31, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-196B
Project: 2007-098-T2045

% MOISTURE

Date Analyzed: 3-30-17

Client ID	Lab ID	% Moisture
UCCB1-25.5	03-196-10	12





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-naphthalene) 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





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

April 4, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-207

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 22, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 4, 2017
Samples Submitted: March 22, 2017
Laboratory Reference: 1703-207
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 22, 2017 and received by the laboratory on March 22, 2017. 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.

Halogenated 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.

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.



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-15-GW					
Laboratory ID:	03-207-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	1.1	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-15-GW					
Laboratory ID:	03-207-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-125</i>				



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-32-GW					
Laboratory ID:	03-207-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	0.43	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-32-GW					
Laboratory ID:	03-207-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	4.2	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	77-129				
<i>Toluene-d8</i>	113	80-127				
<i>4-Bromofluorobenzene</i>	109	80-125				



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-43-GW					
Laboratory ID:	03-207-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	1.6	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-43-GW					
Laboratory ID:	03-207-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	1.5	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-207-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-207-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>80-125</i>				



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0330W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0330W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0330W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.29	9.04	10.0	10.0	83	90	63-127	9	17	
Benzene	9.30	10.2	10.0	10.0	93	102	76-121	9	12	
Trichloroethene	8.64	9.71	10.0	10.0	86	97	64-120	12	15	
Toluene	10.1	11.4	10.0	10.0	101	114	82-120	12	13	
Chlorobenzene	9.28	10.2	10.0	10.0	93	102	80-120	9	14	
<i>Surrogate:</i>										
Dibromofluoromethane					94	91	77-129			
Toluene-d8					111	111	80-127			
4-Bromofluorobenzene					114	109	80-125			



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-36.0					
Laboratory ID:	03-207-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Chloromethane	ND	0.0057	EPA 8260C	4-3-17	4-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Bromomethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Chloroethane	ND	0.0057	EPA 8260C	4-3-17	4-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Iodomethane	ND	0.010	EPA 8260C	4-3-17	4-3-17	
Methylene Chloride	ND	0.0057	EPA 8260C	4-3-17	4-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Chloroform	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	4-3-17	4-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB5-36.0					
Laboratory ID:	03-207-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Bromoform	ND	0.0057	EPA 8260C	4-3-17	4-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	4-3-17	4-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	4-3-17	4-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-3-17	4-3-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-131</i>				



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0403S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Chloromethane	ND	0.0050	EPA 8260C	4-3-17	4-3-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Bromomethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Chloroethane	ND	0.0050	EPA 8260C	4-3-17	4-3-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Iodomethane	ND	0.0091	EPA 8260C	4-3-17	4-3-17	
Methylene Chloride	ND	0.0050	EPA 8260C	4-3-17	4-3-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Chloroform	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-3-17	4-3-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0403S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Bromoform	ND	0.0050	EPA 8260C	4-3-17	4-3-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	4-3-17	4-3-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-3-17	4-3-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-3-17	4-3-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



Date of Report: April 4, 2017
 Samples Submitted: March 22, 2017
 Laboratory Reference: 1703-207
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0403S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0517	0.0488	0.0500	0.0500	103	98	66-127	6	15	
Benzene	0.0546	0.0534	0.0500	0.0500	109	107	76-122	2	15	
Trichloroethene	0.0575	0.0548	0.0500	0.0500	115	110	78-120	5	15	
Toluene	0.0593	0.0563	0.0500	0.0500	119	113	83-120	5	15	
Chlorobenzene	0.0529	0.0489	0.0500	0.0500	106	98	81-120	8	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>94</i>	<i>98</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>102</i>	<i>105</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>105</i>	<i>103</i>	<i>80-131</i>			



Date of Report: April 4, 2017
Samples Submitted: March 22, 2017
Laboratory Reference: 1703-207
Project: 2007-098-T2045

% MOISTURE

Date Analyzed: 4-3-17

Client ID	Lab ID	% Moisture
UCCB5-36.0	03-207-06	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-naphthalene) 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





OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14649 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: HWA GeoSciences
 Project Number: 2007-098-T2045
 Project Name: Ultra/Riverside HVC
 Project Manager: Arrive Sugar
 Sampled by: Nicole Kapise

Turnaround Request
 (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: 03-207

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UCCB5-23.5	3/22/17	8:26	Soil
2	UCCB5-25.5		8:31	
3	UCCB5-28.0		8:38	
4	UCCB5-31.0		8:49	
5	UCCB5-34.0		8:51	
6	UCCB5-36.0		10:15	
7	UCCB5-38.0		10:30	
8	UCCB5-40.0		10:33	
9	UCCB5-43.0		10:40	
10	UCCB5-45.5		10:42	

Number of Containers
1
1
1
1
1
1
1
1
1
1

Parameter	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	<u>HWA-GeoSciences</u>	<u>3-22-17</u>	<u>1400</u>	<u>Added 3/29/17. DB (3 day TAT)</u> <u>Added 3/31/17. DB (STA)</u>
	<u>OnSite</u>	<u>3-22-17</u>	<u>1400</u>	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

March 27, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-226

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 23, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 27, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-226
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 22, 2017 and received by the laboratory on March 23, 2017. 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.



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-18-GW					
Laboratory ID:	03-226-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroform	1.2	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-18-GW					
Laboratory ID:	03-226-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>120</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-31-GW					
Laboratory ID:	03-226-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroform	0.74	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-31-GW					
Laboratory ID:	03-226-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	0.61	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-226-20					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroform	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	03-226-20					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0324W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chloroform	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-24-17	3-24-17	



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0324W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	1.0	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-24-17	3-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: March 27, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0324W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	10.9	10.0	10.0	108	109	63-127	1	17	
Benzene	10.6	11.1	10.0	10.0	106	111	76-121	5	12	
Trichloroethene	9.78	9.60	10.0	10.0	98	96	64-120	2	15	
Toluene	11.0	11.1	10.0	10.0	110	111	82-120	1	13	
Chlorobenzene	10.8	10.9	10.0	10.0	108	109	80-120	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>108</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>100</i>	<i>100</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>94</i>	<i>95</i>	<i>80-125</i>			





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-naphthalene) 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





MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)
(TPH analysis 5 Days)
- _____ (other)

Laboratory Number: **03-226**

Company: HWA GeoSciences

Project Number: 2007-098-T2045

Project Name: Ulla/Lewiside HVC Site

Project Manager: Arnie Sugar

Sampled by: Nicole Pappas

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	VCCB9-6.0	3/23/17	13:45	Soil	1
2	VCCB9-8.0		13:51		1
3	VCCB9-11.0		13:55		1
4	VCCB9-13.0		14:00		1
5	VCCB9-16.0		14:05		1
6	VCCB9-18.0		14:09		1
7	VCCB9-20.0		14:15		4
8	VCCB9-24.0		15:20		1
9	VCCB9-26.0		15:26		1
10	VCCB9-28.0		15:31		1

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1																			
1																			
1																			
1																			
1																			
1																			
4																			
1																			
1																			
1																			
1																			

Signature	Company	Date	Time	Comments/Special Instructions
<u>Nicole Pappas</u>	<u>HWA</u>	<u>3/23/17</u>	<u>11:28 AM</u>	
<u>Arnie Sugar</u>	<u>SPEEDY</u>	<u>3-23-17</u>	<u>11:28A</u>	
<u>Nicole Pappas</u>	<u>SPEEDY</u>	<u>3-23-17</u>	<u>11:53A</u>	
<u>Nicole Pappas</u>	<u>ORTE</u>	<u>3/23/17</u>	<u>1153</u>	

Relinquished _____

Received _____

Relinquished _____

Received _____

Relinquished _____

Received _____

Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

April 3, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-226B

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 23, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 3, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-226B
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 22, 2017 and received by the laboratory on March 23, 2017. 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.

Halogenated 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.

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.



Date of Report: April 3, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-35.5					
Laboratory ID:	03-226-13					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	0.0059	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.0019	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	0.0059	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	0.014	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	0.0059	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 3, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-35.5					
Laboratory ID:	03-226-13					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	0.0059	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



Date of Report: April 3, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0331S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.0016	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	0.012	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 3, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0331S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



Date of Report: April 3, 2017
 Samples Submitted: March 23, 2017
 Laboratory Reference: 1703-226B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0331S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0526	0.0468	0.0500	0.0500	105	94	66-127	12	15	
Benzene	0.0562	0.0511	0.0500	0.0500	112	102	76-122	10	15	
Trichloroethene	0.0577	0.0533	0.0500	0.0500	115	107	78-120	8	15	
Toluene	0.0599	0.0550	0.0500	0.0500	120	110	83-120	9	15	
Chlorobenzene	0.0531	0.0499	0.0500	0.0500	106	100	81-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					93	93	73-134			
<i>Toluene-d8</i>					104	104	81-124			
<i>4-Bromofluorobenzene</i>					106	106	80-131			



Date of Report: April 3, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-226B
Project: 2007-098-T2045

% MOISTURE

Date Analyzed: 3-30-17

Client ID	Lab ID	% Moisture
UCCB9-35.5	03-226-13	21





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-naphthalene) 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





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

March 28, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-244

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 24, 2017.

Please note that this is a *revised* report, and replaces the original due to a revision of the sample identification for sample UCCB9-31-GW, which was changed to UCCB9-41-GW.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-244
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 23, 2017 and received by the laboratory on March 24, 2017. 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.



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-41-GW					
Laboratory ID:	03-244-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	5.7	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	0.23	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB9-41-GW					
Laboratory ID:	03-244-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-9-GW					
Laboratory ID:	03-244-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-9-GW					
Laboratory ID:	03-244-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	77-129				
<i>Toluene-d8</i>	112	80-127				
<i>4-Bromofluorobenzene</i>	109	80-125				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-22-GW					
Laboratory ID:	03-244-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	1.4	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-22-GW					
Laboratory ID:	03-244-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-36-GW					
Laboratory ID:	03-244-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	1.8	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-36-GW					
Laboratory ID:	03-244-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-17-GW					
Laboratory ID:	03-244-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	0.27	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-17-GW					
Laboratory ID:	03-244-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-28-GW					
Laboratory ID:	03-244-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	2.3	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-28-GW					
Laboratory ID:	03-244-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-38-GW					
Laboratory ID:	03-244-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	2.1	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-38-GW					
Laboratory ID:	03-244-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP 1					
Laboratory ID:	03-244-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	1.6	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP 1					
Laboratory ID:	03-244-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	03-244-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	03-244-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0327W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0327W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0327W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.09	9.93	10.0	10.0	91	99	63-127	9	17	
Benzene	9.90	10.8	10.0	10.0	99	108	76-121	9	12	
Trichloroethene	9.37	9.91	10.0	10.0	94	99	64-120	6	15	
Toluene	10.9	11.5	10.0	10.0	109	115	82-120	5	13	
Chlorobenzene	10.0	10.8	10.0	10.0	100	108	80-120	8	14	
<i>Surrogate:</i>										
Dibromofluoromethane					97	96	77-129			
Toluene-d8					111	107	80-127			
4-Bromofluorobenzene					111	109	80-125			





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-naphthalene) 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





MVA Onsite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TTPH analysis 5 Days)

(other) _____

Laboratory Number: **03-244**

Company: **HWA GeoSciences**
Project Number: **2007-098-T2045**
Project Name: **Ultra/Loverside HWC**
Project Manager: **Arnie Sugar**
Sampled by: **Nicole Kay SR**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	UCCB9-31-GW	3/23/17	9:35	GW	3
2	UCCB10-11.0	3/23/17	9:30	Soil	4
3	UCCB10-25.5	3/23/17	11:01	Soil	1
4	UCCB10-38.0	3/23/17	12:45	Soil	1
5	UCCB10-9-GW	3/23/17	10:34	GW	3
6	UCCB10-22-GW	3/23/17	11:25	Soil	3
7	UCCB10-36-GW	3/23/17	13:53	Soil	3
8	UCCB7-20.0	3/23/17	10:20	Soil	4
9	UCCB7-30.5	3/23/17	17:15	Soil	4
10	UCCB7-39.0	3/23/17	17:30	Soil	4

Lab ID	Sample Identification	Date	Time	Comments/Special Instructions
1	UCCB9-31-GW	3/24/17	10:35am	Added 3/30/17 DB (STA)
2	UCCB10-11.0	3/24/17	10:35am	
3	UCCB10-25.5	3/24/17	10:35am	
4	UCCB10-38.0	3/24/17	11am	
5	UCCB10-9-GW	3/24/17	11am	
6	UCCB10-22-GW	3/24/17	11am	
7	UCCB10-36-GW	3/24/17	11am	
8	UCCB7-20.0	3/24/17	11am	
9	UCCB7-30.5	3/24/17	11am	
10	UCCB7-39.0	3/24/17	11am	

Relinquished: **Arnie Sugar** (Signature) **HWA** (Company) **3/24/17** (Date) **10:35am** (Time)

Received: **Arnie Sugar** (Signature) **HWA** (Company) **3/24/17** (Date) **10:35am** (Time)

Relinquished: **Arnie Sugar** (Signature) **HWA** (Company) **3/24/17** (Date) **11am** (Time)

Received: **Arnie Sugar** (Signature) **HWA** (Company) **3/24/17** (Date) **11am** (Time)

Relinquished: **Arnie Sugar** (Signature) **HWA** (Company) **3/24/17** (Date) **11am** (Time)

Received: **Arnie Sugar** (Signature) **HWA** (Company) **3/24/17** (Date) **11am** (Time)

Reviewed/Date: _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



MVA Onsite Environmental Inc.

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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: 03-244

Company: **HWA GeoSciences**

Project Number: **2007-098-T2045**

Project Name: **Utha/Everside HUC**

Project Manager: **Arnie Sugar**

Sampled by: **Nicole Kapsse**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	UCCB7-17-GW	3/23/17	16:05	GW
12	UCCB7-28-GW		16:58	
13	UCCB7-38-GW		17:52	
14	DUP 1		11:30	
15	TRIP BLANK			

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	X
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	X
PAHs 8270D/SIM (low-level)	X
PCBs 8082A	X
Organochlorine Pesticides 8081B	X
Organophosphorus Pesticides 8270D/SIM	X
Chlorinated Acid Herbicides 8151A	X
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Nicole Kapsse</i>	HWA	3/24/17	10:35 AM	
<i>Nicole Kapsse</i>	SPEEDY	3-24-17	10:35	
<i>Nicole Kapsse</i>	SPEEDY	3-24-17	11 AM	
<i>Nicole Kapsse</i>	ORIS	3/24/17	1:00	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

April 3, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-244B

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 24, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 3, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-244B
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 23, 2017 and received by the laboratory on March 24, 2017. 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.

Halogenated 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.

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.



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-25.5					
Laboratory ID:	03-244-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	0.0062	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.0020	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	0.0062	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	0.015	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	0.0062	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB6-25.5					
Laboratory ID:	03-244-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	0.0062	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-131</i>				



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-20.0					
Laboratory ID:	03-244-08					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	0.0061	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.0019	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	0.0061	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	0.015	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	0.0061	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB7-20.0					
Laboratory ID:	03-244-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	0.0061	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>80-131</i>				



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0331S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.0016	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	0.012	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0331S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-244B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0331S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0526	0.0468	0.0500	0.0500	105	94	66-127	12	15	
Benzene	0.0562	0.0511	0.0500	0.0500	112	102	76-122	10	15	
Trichloroethene	0.0577	0.0533	0.0500	0.0500	115	107	78-120	8	15	
Toluene	0.0599	0.0550	0.0500	0.0500	120	110	83-120	9	15	
Chlorobenzene	0.0531	0.0499	0.0500	0.0500	106	100	81-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					93	93	73-134			
<i>Toluene-d8</i>					104	104	81-124			
<i>4-Bromofluorobenzene</i>					106	106	80-131			



Date of Report: April 3, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-244B
Project: 2007-098-T2045

% MOISTURE

Date Analyzed: 3-30-17

Client ID	Lab ID	% Moisture
UCCB6-25.5	03-244-03	21
UCCB7-20.0	03-244-08	18





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-naphthalene) 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





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

March 28, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-245

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 24, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-245
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 24, 2017 and received by the laboratory on March 24, 2017. 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.



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-4-GW					
Laboratory ID:	03-245-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-4-GW					
Laboratory ID:	03-245-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>120</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-27-GW					
Laboratory ID:	03-245-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-27-GW					
Laboratory ID:	03-245-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	4.1	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-38-GW					
Laboratory ID:	03-245-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-38-GW					
Laboratory ID:	03-245-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	0.45	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	03-245-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	03-245-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0327W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloromethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Iodomethane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-27-17	3-27-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chloroform	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Trichloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromomethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	3-27-17	3-27-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-27-17	3-27-17	



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0327W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Bromoform	ND	1.0	EPA 8260C	3-27-17	3-27-17	
Bromobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-27-17	3-27-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-27-17	3-27-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-27-17	3-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: March 28, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0327W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	10.6	10.0	10.0	109	106	63-127	3	17	
Benzene	10.7	10.6	10.0	10.0	107	106	76-121	1	12	
Trichloroethene	9.90	9.58	10.0	10.0	99	96	64-120	3	15	
Toluene	10.9	10.9	10.0	10.0	109	109	82-120	0	13	
Chlorobenzene	10.6	10.5	10.0	10.0	106	105	80-120	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>111</i>	<i>107</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>98</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>94</i>	<i>80-125</i>			





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-naphthalene) 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





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

April 3, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1703-245B

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 24, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 3, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-245B
Project: 2007-098-T2045

Case Narrative

Samples were collected on March 24, 2017 and received by the laboratory on March 24, 2017. 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.

Halogenated 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.

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.



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-32.5					
Laboratory ID:	03-245-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	0.0055	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.0018	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	0.0055	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	0.013	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	0.0055	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB3-32.5					
Laboratory ID:	03-245-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	0.0015	0.0011	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	0.0055	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0331S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.0016	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	0.012	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0331S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



Date of Report: April 3, 2017
 Samples Submitted: March 24, 2017
 Laboratory Reference: 1703-245B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0331S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0526	0.0468	0.0500	0.0500	105	94	66-127	12	15	
Benzene	0.0562	0.0511	0.0500	0.0500	112	102	76-122	10	15	
Trichloroethene	0.0577	0.0533	0.0500	0.0500	115	107	78-120	8	15	
Toluene	0.0599	0.0550	0.0500	0.0500	120	110	83-120	9	15	
Chlorobenzene	0.0531	0.0499	0.0500	0.0500	106	100	81-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					93	93	73-134			
<i>Toluene-d8</i>					104	104	81-124			
<i>4-Bromofluorobenzene</i>					106	106	80-131			



Date of Report: April 3, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-245B
Project: 2007-098-T2045

% MOISTURE

Date Analyzed: 3-30-17

Client ID	Lab ID	% Moisture
UCCB3-32.5	03-245-02	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-naphthalene) 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





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TYP analysis 5 Days)

Date Sampled: _____ (other)

Laboratory Number: **03-245**

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Company: HWA GeoSciences
 Project Number: 1007-098-12045
 Project Name: Ultra/Reverse HVC Sift
 Project Manager: Kevin Soper
 Sampled by: Nicki Leppies

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
1	UCCB3 - 5.0	3/24/17	9:25	Soil	4	3/24/17	1300	(X) Added 3/30/17. DB (STA)
2	UCCB3 - 32.5		12:05	↓				
3	UCCB3 - 39.0		12:27	↓				
4	UCCB3 - 4-GW		9:00	GW	3			
5	UCCB3 - 27-GW		11:30	↓	3			
6	UCCB3 - 38-GW		12:45	↓	1			
7	Trp Blank							
Relinquished	Signature: <u>Nicki Leppies</u>	Company: <u>HWA</u>	Date: <u>3/24/17</u>	Time: <u>1316</u>				
Received	Signature: <u>Kevin Soper</u>	Company: <u>Geo</u>	Date: <u>3/24/17</u>	Time: <u>1330</u>				
Relinquished	Signature: <u>Kevin Soper</u>	Company: <u>Geo</u>	Date: <u>3/24/17</u>	Time: <u>1330</u>				
Received	Signature: _____	Company: _____	Date: _____	Time: _____				
Relinquished	Signature: _____	Company: _____	Date: _____	Time: _____				
Received	Signature: _____	Company: _____	Date: _____	Time: _____				
Reviewed/Date	Reviewed/Date	Reviewed/Date	Reviewed/Date	Reviewed/Date				

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

April 5, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098 T2045
Laboratory Reference No. 1703-260

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 27, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2017
Samples Submitted: March 27, 2017
Laboratory Reference: 1703-260
Project: 2007-098 T2045

Case Narrative

Samples were collected on March 27, 2017 and received by the laboratory on March 27, 2017. 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.

Halogenated 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.

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.



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB8-23-GW					
Laboratory ID:	03-260-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	0.55	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	0.22	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB8-23-GW					
Laboratory ID:	03-260-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	64	0.40	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB8-37-GW					
Laboratory ID:	03-260-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	0.25	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	0.66	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB8-37-GW					
Laboratory ID:	03-260-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	21	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	03-260-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	03-260-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>80-125</i>				



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0330W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloromethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Iodomethane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chloroform	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Trichloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromomethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-30-17	3-30-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-30-17	3-30-17	



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0330W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Bromoform	ND	1.0	EPA 8260C	3-30-17	3-30-17	
Bromobenzene	ND	0.26	EPA 8260C	3-30-17	3-30-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-30-17	3-30-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
4-Chlorotoluene	ND	0.25	EPA 8260C	3-30-17	3-30-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-30-17	3-30-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-30-17	3-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0331W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Chloromethane	ND	1.0	EPA 8260C	3-31-17	3-31-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Bromomethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Chloroethane	ND	1.0	EPA 8260C	3-31-17	3-31-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Iodomethane	ND	1.0	EPA 8260C	3-31-17	3-31-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-31-17	3-31-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Chloroform	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Trichloroethene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Dibromomethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-31-17	3-31-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-31-17	3-31-17	



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0331W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Bromoform	ND	1.0	EPA 8260C	3-31-17	3-31-17	
Bromobenzene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-31-17	3-31-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-31-17	3-31-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-31-17	3-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0330W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.29	9.04	10.0	10.0	83	90	63-127	9	17	
Benzene	9.30	10.2	10.0	10.0	93	102	76-121	9	12	
Trichloroethene	8.64	9.71	10.0	10.0	86	97	64-120	12	15	
Toluene	10.1	11.4	10.0	10.0	101	114	82-120	12	13	
Chlorobenzene	9.28	10.2	10.0	10.0	93	102	80-120	9	14	
<i>Surrogate:</i>										
Dibromofluoromethane					94	91	77-129			
Toluene-d8					111	111	80-127			
4-Bromofluorobenzene					114	109	80-125			



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0331W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.54	9.47	10.0	10.0	95	95	63-127	1	17	
Benzene	10.0	10.0	10.0	10.0	100	100	76-121	0	12	
Trichloroethene	9.86	9.77	10.0	10.0	99	98	64-120	1	15	
Toluene	10.3	10.4	10.0	10.0	103	104	82-120	1	13	
Chlorobenzene	10.3	10.3	10.0	10.0	103	103	80-120	0	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	102	77-129			
<i>Toluene-d8</i>					100	100	80-127			
<i>4-Bromofluorobenzene</i>					94	94	80-125			



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB8-25.0					
Laboratory ID:	03-260-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Chloromethane	ND	0.0056	EPA 8260C	4-4-17	4-5-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Bromomethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Chloroethane	ND	0.0056	EPA 8260C	4-4-17	4-5-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Iodomethane	ND	0.0074	EPA 8260C	4-4-17	4-5-17	
Methylene Chloride	ND	0.0074	EPA 8260C	4-4-17	4-5-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Chloroform	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	4-4-17	4-5-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB8-25.0					
Laboratory ID:	03-260-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Tetrachloroethene	0.025	0.0011	EPA 8260C	4-4-17	4-5-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Bromoform	ND	0.0056	EPA 8260C	4-4-17	4-5-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	4-4-17	4-5-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	4-4-17	4-5-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-4-17	4-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-131</i>				



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0404S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Chloromethane	ND	0.0050	EPA 8260C	4-4-17	4-5-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Bromomethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Chloroethane	ND	0.0050	EPA 8260C	4-4-17	4-5-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Iodomethane	ND	0.0066	EPA 8260C	4-4-17	4-5-17	
Methylene Chloride	ND	0.0066	EPA 8260C	4-4-17	4-5-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Chloroform	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-4-17	4-5-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0404S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Bromoform	ND	0.0050	EPA 8260C	4-4-17	4-5-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	4-4-17	4-5-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-4-17	4-5-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-4-17	4-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	73-134				
<i>Toluene-d8</i>	95	81-124				
<i>4-Bromofluorobenzene</i>	96	80-131				



Date of Report: April 5, 2017
 Samples Submitted: March 27, 2017
 Laboratory Reference: 1703-260
 Project: 2007-098 T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0404S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0441	0.0419	0.0500	0.0500	88	84	66-127	5	15	
Benzene	0.0488	0.0489	0.0500	0.0500	98	98	76-122	0	15	
Trichloroethene	0.0513	0.0496	0.0500	0.0500	103	99	78-120	3	15	
Toluene	0.0506	0.0501	0.0500	0.0500	101	100	83-120	1	15	
Chlorobenzene	0.0484	0.0492	0.0500	0.0500	97	98	81-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					100	100	73-134			
<i>Toluene-d8</i>					101	99	81-124			
<i>4-Bromofluorobenzene</i>					98	103	80-131			



Date of Report: April 5, 2017
Samples Submitted: March 27, 2017
Laboratory Reference: 1703-260
Project: 2007-098 T2045

% MOISTURE

Date Analyzed: 4-4-17

Client ID	Lab ID	% Moisture
UCCB8-25.0	03-260-02	18





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-naphthalene) 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





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

April 12, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1704-060

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on April 6, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 12, 2017
Samples Submitted: April 6, 2017
Laboratory Reference: 1704-060
Project: 2007-098-T2045

Case Narrative

Samples were collected on April 5, 2017 and received by the laboratory on April 6, 2017. 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.



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-9.0-GW					
Laboratory ID:	04-060-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	0.37	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-9.0-GW					
Laboratory ID:	04-060-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	2.6	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-25.0-GW					
Laboratory ID:	04-060-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-25.0-GW					
Laboratory ID:	04-060-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	35	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-37.0-GW					
Laboratory ID:	04-060-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	0.41	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	0.48	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-37.0-GW					
Laboratory ID:	04-060-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	21	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-9.5-GW					
Laboratory ID:	04-060-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-9.5-GW					
Laboratory ID:	04-060-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-21.0-GW					
Laboratory ID:	04-060-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-21.0-GW					
Laboratory ID:	04-060-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	14	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-35.5-GW					
Laboratory ID:	04-060-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-35.5-GW					
Laboratory ID:	04-060-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	9.3	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	04-060-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	04-060-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup-2					
Laboratory ID:	04-060-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup-2					
Laboratory ID:	04-060-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0407W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloromethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Vinyl Chloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroethane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Iodomethane	ND	1.4	EPA 8260C	4-7-17	4-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chloroform	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Trichloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromomethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-7-17	4-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-7-17	4-7-17	



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0407W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Bromoform	ND	1.0	EPA 8260C	4-7-17	4-7-17	
Bromobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-7-17	4-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-7-17	4-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-7-17	4-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: April 12, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0407W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.74	9.49	10.0	10.0	87	95	63-127	8	17	
Benzene	9.75	10.4	10.0	10.0	98	104	76-121	6	12	
Trichloroethene	9.09	9.56	10.0	10.0	91	96	64-120	5	15	
Toluene	9.85	10.6	10.0	10.0	99	106	82-120	7	13	
Chlorobenzene	9.78	10.6	10.0	10.0	98	106	80-120	8	14	
<i>Surrogate:</i>										
Dibromofluoromethane					100	100	77-129			
Toluene-d8					98	98	80-127			
4-Bromofluorobenzene					96	99	80-125			





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-naphthalene) 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





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

April 17, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T2045
Laboratory Reference No. 1704-060B

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on April 6, 2017.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 17, 2017
Samples Submitted: April 6, 2017
Laboratory Reference: 1704-060B
Project: 2007-098-T2045

Case Narrative

Samples were collected on April 5, 2017 and received by the laboratory on April 6, 2017. 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.

Halogenated 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.

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.



Date of Report: April 17, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-27.5					
Laboratory ID:	04-060-02					
Dichlorodifluoromethane	ND	0.0021	EPA 8260C	4-14-17	4-14-17	
Chloromethane	ND	0.0058	EPA 8260C	4-14-17	4-14-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Bromomethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Chloroethane	ND	0.0058	EPA 8260C	4-14-17	4-14-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Iodomethane	ND	0.0058	EPA 8260C	4-14-17	4-14-17	
Methylene Chloride	ND	0.0084	EPA 8260C	4-14-17	4-14-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Chloroform	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	4-14-17	4-14-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	



Date of Report: April 17, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB2-27.5					
Laboratory ID:	04-060-02					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	4-14-17	4-14-17	
Tetrachloroethene	0.046	0.0012	EPA 8260C	4-14-17	4-14-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Bromoform	ND	0.0058	EPA 8260C	4-14-17	4-14-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	4-14-17	4-14-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0077	EPA 8260C	4-14-17	4-14-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-14-17	4-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>80-131</i>				



Date of Report: April 17, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-25.0					
Laboratory ID:	04-060-08					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	4-14-17	4-14-17	
Chloromethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Vinyl Chloride	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Bromomethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Chloroethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Iodomethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Methylene Chloride	ND	0.0072	EPA 8260C	4-14-17	4-14-17	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Bromochloromethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Chloroform	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Trichloroethene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Dibromomethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Bromodichloromethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	



Date of Report: April 17, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060B
 Project: 2007-098-T2045

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCB4-25.0					
Laboratory ID:	04-060-08					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
Tetrachloroethene	0.034	0.00099	EPA 8260C	4-14-17	4-14-17	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Dibromochloromethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Chlorobenzene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Bromoform	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Bromobenzene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
2-Chlorotoluene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
4-Chlorotoluene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	4-14-17	4-14-17	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	4-14-17	4-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>120</i>	<i>80-131</i>				



Date of Report: April 17, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0414S1					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	4-14-17	4-14-17	
Chloromethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromomethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Chloroethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Iodomethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Methylene Chloride	ND	0.0073	EPA 8260C	4-14-17	4-14-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Chloroform	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	



Date of Report: April 17, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0414S1					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromoform	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	4-14-17	4-14-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>80-131</i>				



Date of Report: April 17, 2017
 Samples Submitted: April 6, 2017
 Laboratory Reference: 1704-060B
 Project: 2007-098-T2045

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0414S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0470	0.0536	0.0500	0.0500	94	107	66-127	13	15	
Benzene	0.0470	0.0499	0.0500	0.0500	94	100	76-122	6	15	
Trichloroethene	0.0502	0.0521	0.0500	0.0500	100	104	78-120	4	15	
Toluene	0.0475	0.0506	0.0500	0.0500	95	101	83-120	6	15	
Chlorobenzene	0.0444	0.0477	0.0500	0.0500	89	95	81-120	7	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>87</i>	<i>91</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>92</i>	<i>99</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>112</i>	<i>80-131</i>			



Date of Report: April 17, 2017
Samples Submitted: April 6, 2017
Laboratory Reference: 1704-060B
Project: 2007-098-T2045

% MOISTURE

Date Analyzed: 4-13-17

Client ID	Lab ID	% Moisture
UCCB2-27.5	04-060-02	22
UCCB4-25.0	04-060-08	16





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-naphthalene) 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





Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 ATPH analysis (5 Days)

_____ (other)

Laboratory Number: **04-060**

Company: **HWA GeoSciences**
 Project Number: **2007-098-T2045**
 Project Name: **VCC/Avuside HVOc**
 Project Manager: **Arrive Sugar**
 Sampled by: **Nicole Laprise**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	VCCB4-210-GW	4/5/17	14:35	GW
12	VCCB4-35.5-GW	↓	15:50	↓
13	Trip Blank	←	—	W
14	Dup - 2	4/5/17	12:55	GW

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	HVOCs	% Moisture
3																	X	
1																	X	
3																	X	
3																	X	

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Archie Sugar</i>	HWA	4/6/17	9:05A	
Received	<i>Archie Sugar</i>	ALPHA	4/6/17	9:05A	
Relinquished	<i>Archie Sugar</i>	ALPHA	4/6/17	10:05A	
Received	<i>Archie Sugar</i>	ORR	4/6/17	10:05	
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					

Data Package: Standard

Level III Level IV

Electronic Data Deliverables (EDDs)

Chromatograms with final report



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

March 21, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-996
Laboratory Reference No. 1403-094

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 13, 2014.

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

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-094
Project: 2007-098-996

Case Narrative

Samples were collected on March 13, 2014 and received by the laboratory on March 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-094-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-094-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	3.8	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0317W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0317W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	03-095-01									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	10.0	9.93	10.0	10.0	ND	100	99	57-133	0	15
Benzene	9.68	9.70	10.0	10.0	ND	97	97	78-117	0	15
Trichloroethene	10.0	10.2	10.0	10.0	ND	100	102	77-120	2	15
Toluene	9.67	9.78	10.0	10.0	ND	97	98	80-115	1	15
Chlorobenzene	10.3	10.5	10.0	10.0	ND	103	105	80-122	2	15
<i>Surrogate:</i>										
Dibromofluoromethane						102	101	62-122		
Toluene-d8						99	99	70-120		
4-Bromofluorobenzene						98	98	71-120		

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-094
Project: 2007-098-996

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-094-01					
Nitrate	0.39	0.050	EPA 353.2	3-14-14	3-14-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Nitrate	ND	0.050	EPA 353.2	3-14-14	3-14-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Nitrate	0.386	0.430	NA	NA	NA	11	16	

MATRIX SPIKE								
Laboratory ID:	03-094-01							
	MS	MS		MS				
Nitrate	2.71	2.00	0.386	116	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0314W1							
	SB	SB		SB				
Nitrate	2.17	2.00	NA	109	86-114	NA	NA	

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-094
Project: 2007-098-996

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-094-01					
Sulfate	17	10	ASTM D516-07	3-18-14	3-18-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W2					
Sulfate	ND	5.0	ASTM D516-07	3-18-14	3-18-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Sulfate	16.7	17.6	NA	NA	NA	5	10	

MATRIX SPIKE								
Laboratory ID:	03-094-01							
	MS	MS		MS				
Sulfate	38.1	20.0	16.7	107	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0318W2							
	SB	SB		SB				
Sulfate	10.8	10.0	NA	108	91-114	NA	NA	

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-094
Project: 2007-098-996

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-094-01					
Total Organic Carbon	1.5	1.0	SM 5310B	3-20-14	3-20-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Total Organic Carbon	1.51	1.54	NA	NA	NA	2	15	

MATRIX SPIKE

Laboratory ID:	03-094-01							
	MS	MS		MS				
Total Organic Carbon	11.7	10.0	1.51	102	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0320W1							
	SB	SB		SB				
Total Organic Carbon	10.3	10.0	NA	103	91-119	NA	NA	

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-094
Project: 2007-098-996

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-094-01					
Methane	3.8	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-094
 Project: 2007-098-996

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W1					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0318W1									
	SB	SBD	SB	SBD		SB	SBD			
Methane	4.13	4.57	4.42	4.42	N/A	93	103	75-125	10	25
Ethane	7.56	8.64	8.32	8.32	N/A	91	104	75-125	13	25
Ethene	7.54	9.26	7.77	7.77	N/A	97	119	75-125	20	25



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-naphthalene) 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



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

March 21, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-996
Laboratory Reference No. 1403-095

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 13, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-095
Project: 2007-098-996

Case Narrative

Samples were collected on March 13, 2014 and received by the laboratory on March 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	0.30	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	0.52	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	0.88	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-095-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	6.5	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	120	1.0	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	30	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	9.5	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-095-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	130	1.0	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0317W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0317W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	03-095-01									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	10.0	9.93	10.0	10.0	ND	100	99	57-133	0	15
Benzene	9.68	9.70	10.0	10.0	ND	97	97	78-117	0	15
Trichloroethene	10.0	10.2	10.0	10.0	ND	100	102	77-120	2	15
Toluene	9.67	9.78	10.0	10.0	ND	97	98	80-115	1	15
Chlorobenzene	10.3	10.5	10.0	10.0	ND	103	105	80-122	2	15
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>						102	101	62-122		
<i>Toluene-d8</i>						99	99	70-120		
<i>4-Bromofluorobenzene</i>						98	98	71-120		

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Nitrate	3.5	0.050	EPA 353.2	3-14-14	3-14-14	

Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Nitrate	ND	0.050	EPA 353.2	3-14-14	3-14-14	

Client ID:	MW-1					
Laboratory ID:	03-095-03					
Nitrate	4.4	0.050	EPA 353.2	3-14-14	3-14-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Nitrate	ND	0.050	EPA 353.2	3-14-14	3-14-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Nitrate	0.386	0.430	NA	NA	NA	NA	11	16

MATRIX SPIKE								
Laboratory ID:	03-094-01							
	MS	MS		MS				
Nitrate	2.71	2.00	0.386	116	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0314W1							
	SB	SB		SB				
Nitrate	2.17	2.00	NA	109	86-114	NA	NA	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Sulfate	20	5.0	ASTM D516-07	3-18-14	3-18-14	

Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Sulfate	8.1	5.0	ASTM D516-07	3-18-14	3-18-14	

Client ID:	MW-1					
Laboratory ID:	03-095-03					
Sulfate	27	10	ASTM D516-07	3-18-14	3-18-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W2					
Sulfate	ND	5.0	ASTM D516-07	3-18-14	3-18-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Sulfate	16.7	17.6	NA	NA	NA	5	10	

MATRIX SPIKE								
Laboratory ID:	03-094-01							
	MS	MS		MS				
Sulfate	38.1	20.0	16.7	107	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0318W2							
	SB	SB		SB				
Sulfate	10.8	10.0	NA	108	91-114	NA	NA	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	
Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	
Client ID:	MW-1					
Laboratory ID:	03-095-03					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Total Organic Carbon	1.51	1.54	NA	NA	NA	2	15	

MATRIX SPIKE

Laboratory ID:	03-094-01							
	MS	MS		MS				
Total Organic Carbon	11.7	10.0	1.51	102	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0320W1							
	SB	SB		SB				
Total Organic Carbon	10.3	10.0	NA	103	91-119	NA	NA	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Client ID:	MW-1					
Laboratory ID:	03-095-03					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W1					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0318W1									
	SB	SBD	SB	SBD		SB	SBD			
Methane	4.13	4.57	4.42	4.42	N/A	93	103	75-125	10	25
Ethane	7.56	8.64	8.32	8.32	N/A	91	104	75-125	13	25
Ethene	7.54	9.26	7.77	7.77	N/A	97	119	75-125	20	25



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-naphthalene) 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



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

March 21, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-996
Laboratory Reference No. 1403-095

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 13, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

March 16, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2039
Laboratory Reference No. 1703-066

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 8, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 16, 2017
Samples Submitted: March 8, 2017
Laboratory Reference: 1703-066
Project: 2007-098-2039

Case Narrative

Samples were collected on March 7 and 8, 2017 and received by the laboratory on March 8, 2017. 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.



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-24					
Laboratory ID:	03-066-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	0.97	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-24					
Laboratory ID:	03-066-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	1.0	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	03-066-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	0.90	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	12	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	1.0	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	03-066-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	5.6	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	03-066-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	0.35	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	6.8	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	4.6	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	03-066-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	14	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-066-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	0.65	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-066-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	0.32	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	03-066-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	0.68	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	5.6	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	0.77	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	03-066-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	5.4	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	03-066-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	0.57	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	0.64	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	03-066-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	5.0	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	03-066-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	03-066-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0310W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-10-17	3-10-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0310W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	1.0	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-10-17	3-10-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	03-066-01									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	8.89	8.67	10.0	10.0	ND	89	87	65-119	3	15
Benzene	8.97	8.70	10.0	10.0	ND	90	87	75-117	3	15
Trichloroethene	9.57	9.52	10.0	10.0	0.97	86	86	66-111	1	15
Toluene	9.37	9.22	10.0	10.0	ND	94	92	79-114	2	15
Chlorobenzene	8.93	8.91	10.0	10.0	ND	89	89	76-120	0	15
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>						111	110	77-129		
<i>Toluene-d8</i>						100	100	80-127		
<i>4-Bromofluorobenzene</i>						98	100	80-125		



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	03-066-02					
Total Organic Carbon	14	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	UCCMW-7					
Laboratory ID:	03-066-03					
Total Organic Carbon	6.4	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	UCCMW-21					
Laboratory ID:	03-066-05					
Total Organic Carbon	5.5	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	UCCMW-20					
Laboratory ID:	03-066-06					
Total Organic Carbon	2.5	1.0	SM 5310B	3-14-17	3-14-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-14-17	3-14-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-066-02							
	ORIG	DUP						
Total Organic Carbon	13.9	13.9	NA	NA	NA	0	15	

MATRIX SPIKE

Laboratory ID:	03-066-02							
	MS	MS		MS				
Total Organic Carbon	23.1	10.0	13.9	92	77-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0314W1							
	SB	SB		SB				
Total Organic Carbon	11.5	10.0	NA	115	96-117	NA	NA	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	03-066-02					
Methane	11000	1000	RSK 175	3-16-17	3-16-17	
Ethane	ND	90	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	11	RSK 175	3-16-17	3-16-17	U1

Client ID:	UCCMW-7					
Laboratory ID:	03-066-03					
Methane	2000	250	RSK 175	3-16-17	3-16-17	
Ethane	ND	21	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	2.3	RSK 175	3-16-17	3-16-17	U1

Client ID:	UCCMW-21					
Laboratory ID:	03-066-05					
Methane	1100	250	RSK 175	3-16-17	3-16-17	
Ethane	ND	15	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	1.4	RSK 175	3-16-17	3-16-17	U1

Client ID:	UCCMW-20					
Laboratory ID:	03-066-06					
Methane	0.98	0.50	RSK 175	3-16-17	3-16-17	
Ethane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethene	ND	0.50	RSK 175	3-16-17	3-16-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
Methane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethene	ND	0.50	RSK 175	3-16-17	3-16-17	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0316W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.27	4.22	4.42	4.42	N/A	97	95	75-125	1	25	
Ethane	7.87	7.78	8.32	8.32	N/A	95	94	75-125	1	25	
Ethene	8.93	8.09	7.77	7.77	N/A	115	104	75-125	10	25	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	03-066-02					
Nitrate	ND	0.050	EPA 353.2	3-8-17	3-8-17	

Client ID:	UCCMW-7					
Laboratory ID:	03-066-03					
Nitrate	0.13	0.050	EPA 353.2	3-8-17	3-8-17	

Client ID:	UCCMW-21					
Laboratory ID:	03-066-05					
Nitrate	0.10	0.050	EPA 353.2	3-8-17	3-8-17	

Client ID:	UCCMW-20					
Laboratory ID:	03-066-06					
Nitrate	2.5	0.050	EPA 353.2	3-8-17	3-8-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W1					
Nitrate	ND	0.050	EPA 353.2	3-8-17	3-8-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-066-03							
	ORIG	DUP						
Nitrate	0.132	0.126	NA	NA	NA	NA	5	9

MATRIX SPIKE

Laboratory ID:	03-066-03							
	MS	MS		MS				
Nitrate	2.35	2.00	0.132	111	93-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0308W1							
	SB	SB		SB				
Nitrate	2.22	2.00	NA	111	96-122	NA	NA	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	03-066-02					
Sulfate	ND	5.0	ASTM D516-07	3-15-17	3-15-17	

Client ID:	UCCMW-7					
Laboratory ID:	03-066-03					
Sulfate	30	25	ASTM D516-07	3-15-17	3-15-17	

Client ID:	UCCMW-21					
Laboratory ID:	03-066-05					
Sulfate	12	5.0	ASTM D516-07	3-15-17	3-15-17	

Client ID:	UCCMW-20					
Laboratory ID:	03-066-06					
Sulfate	89	25	ASTM D516-07	3-15-17	3-15-17	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Sulfate	ND	5.0	ASTM D516-07	3-15-17	3-15-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-066-03							
	ORIG	DUP						
Sulfate	30.0	29.9	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	03-066-03							
	MS	MS		MS				
Sulfate	82.3	50.0	30.0	105	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0315W1							
	SB	SB		SB				
Sulfate	9.82	10.0	NA	98	91-113	NA	NA	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-066-02					
Client ID:	UCCMW-25					
Sodium	45000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-066-03					
Client ID:	UCCMW-7					
Sodium	16000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-066-05					
Client ID:	UCCMW-21					
Sodium	21000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-066-06					
Client ID:	UCCMW-20					
Sodium	19000	1100	6010C	3-15-17	3-15-17	



Date of Report: March 16, 2017
Samples Submitted: March 8, 2017
Laboratory Reference: 1703-066
Project: 2007-098-2039

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-15-17
Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0315WM1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: March 16, 2017
Samples Submitted: March 8, 2017
Laboratory Reference: 1703-066
Project: 2007-098-2039

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 3-15-17

Date Analyzed: 3-15-17

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-066-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	44600	45600	2	1100	



Date of Report: March 16, 2017
Samples Submitted: March 8, 2017
Laboratory Reference: 1703-066
Project: 2007-098-2039

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 3-15-17

Date Analyzed: 3-15-17

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-066-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	66100	97	65500	94	1	



Date of Report: March 16, 2017
 Samples Submitted: March 8, 2017
 Laboratory Reference: 1703-066
 Project: 2007-098-2039

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-066-02					
Client ID:	UCCMW-25					
Sodium	42000	1100	6010C		3-15-17	
Lab ID:	03-066-03					
Client ID:	UCCMW-7					
Sodium	16000	1100	6010C		3-15-17	
Lab ID:	03-066-05					
Client ID:	UCCMW-21					
Sodium	21000	1100	6010C		3-15-17	
Lab ID:	03-066-06					
Client ID:	UCCMW-20					
Sodium	19000	1100	6010C		3-15-17	



Date of Report: March 16, 2017
Samples Submitted: March 8, 2017
Laboratory Reference: 1703-066
Project: 2007-098-2039

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 3-15-17
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0315D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: March 16, 2017
Samples Submitted: March 8, 2017
Laboratory Reference: 1703-066
Project: 2007-098-2039

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-066-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	15500	16300	5	1100	



Date of Report: March 16, 2017
Samples Submitted: March 8, 2017
Laboratory Reference: 1703-066
Project: 2007-098-2039

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-066-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	36600	95	37000	97	1	





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-naphthalene) 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





MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: **03-066**

Company:

HWA Geosciences

Project Number:

2007-048-2035

Project Name:

UHQ Custom Cleaners (UCC)

Project Manager:

Annex Sugar

Sampled by:

Austin York

Turnaround Request
(In working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Lab ID

Sample Identification

Date Sampled

Time Sampled

Matrix

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	X
EDB EPA 8011 (Waters Only)	X
Semivolatiles 8270D/SIM (with low-level PAHs)	X
PAHs 8270D/SIM (low-level)	X
PCBs 8082A	X
Organochlorine Pesticides 8081B	X
Organophosphorus Pesticides 8270D/SIM	X
Chlorinated Acid Herbicides 8151A	X
Total RCRA Metals	X
Total MTCA Metals	X
TCLP Metals	X
HEM (oil and grease) 1664A	X
TOC	X
Methane/Ethane/Ethene	X
Nitrate/Sulfate	X
Total/Dissolved Na+	X
% Moisture	

1	<i>UCCMW-24</i>	<i>3-7-12</i>	<i>0948</i>	<i>water</i>	<i>3</i>
2	<i>UCCMW-25</i>	<i>↓</i>	<i>1048</i>	<i>↓</i>	<i>9</i>
3	<i>UCCMW-7</i>	<i>↓</i>	<i>1400</i>	<i>↓</i>	<i>9</i>
4	<i>BB-3</i>	<i>3-7-12</i>	<i>1452</i>	<i>↓</i>	<i>3</i>
5	<i>UCCMW-21</i>	<i>3-8-17</i>	<i>0912</i>	<i>↓</i>	<i>9</i>
6	<i>UCCMW-20</i>	<i>3-8-17</i>	<i>1011</i>	<i>↓</i>	<i>9</i>
7	<i>Trip Blanks</i>	<i>3-8-17</i>	<i>---</i>	<i>water</i>	<i>2</i>

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished	<i>[Signature]</i>	<i>HWA Geosciences</i>	<i>3-8-17</i>	<i>1100</i>	<i>* Dissolved Samples Field Filtered</i>
Received	<i>[Signature]</i>	<i>HWA</i>	<i>3/9/17</i>	<i>11:00</i>	<i>* Nitrate Samples</i>
Relinquished	<i>[Signature]</i>	<i>ALPHA</i>	<i>3/9/17</i>	<i>11:30</i>	
Received	<i>[Signature]</i>	<i>ORIE</i>	<i>3/8/17</i>	<i>1130</i>	

Data Package: Standard Chromatograms with final report Electronic Data Deliverables (EDS)

Received
Reviewed/Date

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-095
Project: 2007-098-996

Case Narrative

Samples were collected on March 13, 2014 and received by the laboratory on March 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	0.30	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	0.52	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	0.88	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-095-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	6.5	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	120	1.0	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	30	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	9.5	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-095-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	130	1.0	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	5.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0317W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloromethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Iodomethane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Methylene Chloride	ND	1.3	EPA 8260C	3-17-14	3-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chloroform	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Trichloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromomethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	3-17-14	3-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-17-14	3-17-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0317W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Tetrachloroethene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Bromoform	ND	1.0	EPA 8260C	3-17-14	3-17-14	
Bromobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-17-14	3-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-17-14	3-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-17-14	3-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	03-095-01									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	10.0	9.93	10.0	10.0	ND	100	99	57-133	0	15
Benzene	9.68	9.70	10.0	10.0	ND	97	97	78-117	0	15
Trichloroethene	10.0	10.2	10.0	10.0	ND	100	102	77-120	2	15
Toluene	9.67	9.78	10.0	10.0	ND	97	98	80-115	1	15
Chlorobenzene	10.3	10.5	10.0	10.0	ND	103	105	80-122	2	15
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>						<i>102</i>	<i>101</i>	<i>62-122</i>		
<i>Toluene-d8</i>						<i>99</i>	<i>99</i>	<i>70-120</i>		
<i>4-Bromofluorobenzene</i>						<i>98</i>	<i>98</i>	<i>71-120</i>		

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Nitrate	3.5	0.050	EPA 353.2	3-14-14	3-14-14	

Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Nitrate	ND	0.050	EPA 353.2	3-14-14	3-14-14	

Client ID:	MW-1					
Laboratory ID:	03-095-03					
Nitrate	4.4	0.050	EPA 353.2	3-14-14	3-14-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Nitrate	ND	0.050	EPA 353.2	3-14-14	3-14-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Nitrate	0.386	0.430	NA	NA	NA	NA	11	16

MATRIX SPIKE								
Laboratory ID:	03-094-01							
	MS	MS		MS				
Nitrate	2.71	2.00	0.386	116	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0314W1							
	SB	SB		SB				
Nitrate	2.17	2.00	NA	109	86-114	NA	NA	

Date of Report: March 21, 2014
Samples Submitted: March 13, 2014
Laboratory Reference: 1403-095
Project: 2007-098-996

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Sulfate	20	5.0	ASTM D516-07	3-18-14	3-18-14	

Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Sulfate	8.1	5.0	ASTM D516-07	3-18-14	3-18-14	

Client ID:	MW-1					
Laboratory ID:	03-095-03					
Sulfate	27	10	ASTM D516-07	3-18-14	3-18-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W2					
Sulfate	ND	5.0	ASTM D516-07	3-18-14	3-18-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Sulfate	16.7	17.6	NA	NA	NA	NA	5	10

MATRIX SPIKE								
Laboratory ID:	03-094-01							
	MS	MS		MS				
Sulfate	38.1	20.0	16.7	107	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0318W2							
	SB	SB		SB				
Sulfate	10.8	10.0	NA	108	91-114	NA	NA	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	

Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	

Client ID:	MW-1					
Laboratory ID:	03-095-03					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-20-14	3-20-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-094-01							
	ORIG	DUP						
Total Organic Carbon	1.51	1.54	NA	NA	NA	NA	2	15

MATRIX SPIKE

Laboratory ID:	03-094-01							
	MS	MS		MS				
Total Organic Carbon	11.7		10.0	1.51	102	70-124	NA	NA

SPIKE BLANK

Laboratory ID:	SB0320W1							
	SB	SB		SB				
Total Organic Carbon	10.3		10.0	NA	103	91-119	NA	NA

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	03-095-01					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Client ID:	UCCMW-4					
Laboratory ID:	03-095-02					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Client ID:	MW-1					
Laboratory ID:	03-095-03					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Date of Report: March 21, 2014
 Samples Submitted: March 13, 2014
 Laboratory Reference: 1403-095
 Project: 2007-098-996

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W1					
Methane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethane	ND	0.50	RSK 175	3-18-14	3-18-14	
Ethene	ND	0.50	RSK 175	3-18-14	3-18-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0318W1									
	SB	SBD	SB	SBD		SB	SBD			
Methane	4.13	4.57	4.42	4.42	N/A	93	103	75-125	10	25
Ethane	7.56	8.64	8.32	8.32	N/A	91	104	75-125	13	25
Ethene	7.54	9.26	7.77	7.77	N/A	97	119	75-125	20	25



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-naphthalene) 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



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

March 17, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22-T2039
Laboratory Reference No. 1703-098

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 10, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 17, 2017
Samples Submitted: March 10, 2017
Laboratory Reference: 1703-098
Project: 2007-098-22-T2039

Case Narrative

Samples were collected on March 8, 9, and 10, 2017 and received by the laboratory on March 10, 2017. 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.

Nitrate EPA 353.3 Analysis

The duplicate RPD is outside control limits due to the inherently high percentage variability of samples that are within five times the detection limit.

Sulfate ASTM D516-07 Analysis

The PQL for sample UCCMW-19 was increased due to sample interference

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.



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-098-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	03-098-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	2.9	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI-3					
Laboratory ID:	03-098-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	0.74	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	4.0	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	0.90	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI-3					
Laboratory ID:	03-098-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	0.92	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-9					
Laboratory ID:	03-098-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	0.66	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	0.27	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-9					
Laboratory ID:	03-098-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	0.38	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	03-098-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	1.4	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	0.24	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	03-098-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	5.0	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	03-098-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	1.8	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	03-098-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	14	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	03-098-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	0.65	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	3.3	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	0.48	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	03-098-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	0.60	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	03-098-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	0.30	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	03-098-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	0.21	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-23					
Laboratory ID:	03-098-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-23					
Laboratory ID:	03-098-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	4.1	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	03-098-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	0.40	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	6.9	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	17	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	03-098-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	10	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	03-098-10					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	2.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	2.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	2.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	2.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	3.7	0.40	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	03-098-10					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	66	0.40	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	2.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0313W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloromethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Iodomethane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-13-17	3-13-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chloroform	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Trichloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromomethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	3-13-17	3-13-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-13-17	3-13-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0313W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Bromoform	ND	1.0	EPA 8260C	3-13-17	3-13-17	
Bromobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-13-17	3-13-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-13-17	3-13-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-13-17	3-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	03-098-06										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	8.89	8.75	10.0	10.0	ND	89	88	65-119	2	15	
Benzene	8.35	8.40	10.0	10.0	ND	84	84	75-117	1	15	
Trichloroethene	9.67	9.38	10.0	10.0	0.482	92	89	66-111	3	15	
Toluene	9.14	9.41	10.0	10.0	ND	91	94	79-114	3	15	
Chlorobenzene	9.39	9.10	10.0	10.0	ND	94	91	76-120	3	15	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>						106	109	77-129			
<i>Toluene-d8</i>						99	100	80-127			
<i>4-Bromofluorobenzene</i>						95	97	80-125			



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	03-098-06					
Total Organic Carbon	18	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	UCCMW-8					
Laboratory ID:	03-098-09					
Total Organic Carbon	3.1	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	BB-2					
Laboratory ID:	03-098-10					
Total Organic Carbon	1.6	1.0	SM 5310B	3-14-17	3-14-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-14-17	3-14-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-066-02							
	ORIG	DUP						
Total Organic Carbon	13.9	13.9	NA	NA	NA	0	15	

MATRIX SPIKE

Laboratory ID:	03-066-02							
	MS	MS		MS				
Total Organic Carbon	23.1	10.0	13.9	92	77-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0314W1							
	SB	SB		SB				
Total Organic Carbon	11.5	10.0	NA	115	96-117	NA	NA	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	03-098-06					
Methane	4100	500	RSK 175	3-16-17	3-16-17	
Ethane	ND	35	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	5.5	RSK 175	3-16-17	3-16-17	U1

Client ID:	UCCMW-8					
Laboratory ID:	03-098-09					
Methane	570	50	RSK 175	3-16-17	3-16-17	
Ethane	ND	9.2	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	1.1	RSK 175	3-16-17	3-16-17	U1

Client ID:	BB-2					
Laboratory ID:	03-098-10					
Methane	1800	250	RSK 175	3-16-17	3-16-17	
Ethane	ND	19	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	2.3	RSK 175	3-16-17	3-16-17	U1



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
Methane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethene	ND	0.50	RSK 175	3-16-17	3-16-17	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0316W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.27	4.22	4.42	4.42	N/A	97	95	75-125	1	25	
Ethane	7.87	7.78	8.32	8.32	N/A	95	94	75-125	1	25	
Ethene	8.93	8.09	7.77	7.77	N/A	115	104	75-125	10	25	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	03-098-06					
Nitrate	0.11	0.050	EPA 353.2	3-10-17	3-10-17	

Client ID:	UCCMW-8					
Laboratory ID:	03-098-09					
Nitrate	0.50	0.050	EPA 353.2	3-10-17	3-10-17	

Client ID:	BB-2					
Laboratory ID:	03-098-10					
Nitrate	1.9	0.050	EPA 353.2	3-10-17	3-10-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Nitrate	ND	0.050	EPA 353.2	3-10-17	3-10-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-098-06							
	ORIG	DUP						
Nitrate	0.114	0.128	NA	NA	NA	12	9	C

MATRIX SPIKE								
Laboratory ID:	03-098-06							
	MS	MS		MS				
Nitrate	2.36	2.00	0.114	112	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0310W1							
	SB	SB		SB				
Nitrate	2.34	2.00	NA	117	96-122	NA	NA	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	03-098-06					
Sulfate	ND	25	ASTM D516-07	3-15-17	3-15-17	

Client ID:	UCCMW-8					
Laboratory ID:	03-098-09					
Sulfate	20	5.0	ASTM D516-07	3-15-17	3-15-17	

Client ID:	BB-2					
Laboratory ID:	03-098-10					
Sulfate	9.2	5.0	ASTM D516-07	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Sulfate	ND	5.0	ASTM D516-07	3-15-17	3-15-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-066-03							
	ORIG	DUP						
Sulfate	30.0	29.9	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	03-066-03							
	MS	MS		MS				
Sulfate	82.3	50.0	30.0	105	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0315W1							
	SB	SB		SB				
Sulfate	9.82	10.0	NA	98	91-113	NA	NA	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-098-06					
Client ID:	UCCMW-19					
Sodium	19000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-098-09					
Client ID:	UCCMW-8					
Sodium	13000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-098-10					
Client ID:	BB-2					
Sodium	15000	1100	6010C	3-15-17	3-15-17	



Date of Report: March 17, 2017
Samples Submitted: March 10, 2017
Laboratory Reference: 1703-098
Project: 2007-098-22-T2039

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-15-17
Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0315WM1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: March 17, 2017
Samples Submitted: March 10, 2017
Laboratory Reference: 1703-098
Project: 2007-098-22-T2039

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 3-15-17

Date Analyzed: 3-15-17

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-066-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	44600	45600	2	1100	



Date of Report: March 17, 2017
Samples Submitted: March 10, 2017
Laboratory Reference: 1703-098
Project: 2007-098-22-T2039

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 3-15-17

Date Analyzed: 3-15-17

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-066-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	66100	97	65500	94	1	



Date of Report: March 17, 2017
 Samples Submitted: March 10, 2017
 Laboratory Reference: 1703-098
 Project: 2007-098-22-T2039

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-098-06					
Client ID:	UCCMW-19					
Sodium	19000	1100	6010C		3-15-17	
Lab ID:	03-098-09					
Client ID:	UCCMW-8					
Sodium	13000	1100	6010C		3-15-17	
Lab ID:	03-098-10					
Client ID:	BB-2					
Sodium	15000	1100	6010C		3-15-17	



Date of Report: March 17, 2017
Samples Submitted: March 10, 2017
Laboratory Reference: 1703-098
Project: 2007-098-22-T2039

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 3-15-17
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0315D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: March 17, 2017
Samples Submitted: March 10, 2017
Laboratory Reference: 1703-098
Project: 2007-098-22-T2039

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-066-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	15500	16300	5	1100	



Date of Report: March 17, 2017
Samples Submitted: March 10, 2017
Laboratory Reference: 1703-098
Project: 2007-098-22-T2039

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-066-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	36600	95	37000	97	1	





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-naphthalene) 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





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

March 17, 2017

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1703-119

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on March 14, 2017.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 17, 2017
Samples Submitted: March 14, 2017
Laboratory Reference: 1703-119
Project: 2007-098-22

Case Narrative

Samples were collected on March 13, 2017 and received by the laboratory on March 14, 2017. 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.

Sulfate ASTM D516-07 Analysis

The PQL for samples UCCMW-26, UCCMW-18, and MW-1 was increased due to sample interference

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.



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-27					
Laboratory ID:	03-119-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	1.1	0.20	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	0.87	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-27					
Laboratory ID:	03-119-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	1.1	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	03-119-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	0.94	0.20	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	0.30	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	2.4	0.20	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	0.40	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	03-119-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	03-119-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	03-119-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	0.86	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	03-119-04					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	10	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	7.0	2.0	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	10	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	10	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	10	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	250	2.0	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	3.4	2.0	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	26	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	03-119-04					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	16	2.0	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	10	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	03-119-05					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	14	0.40	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	2.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	2.4	0.40	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	39	0.40	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	1.7	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	5.2	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	03-119-05					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	4.1	0.40	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-119-06					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	12	0.40	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	2.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	41	0.40	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	0.40	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	5.2	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	03-119-06					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	0.54	0.40	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	2.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-2					
Laboratory ID:	03-119-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	2.0	0.20	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	0.22	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	34	0.20	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	2.0	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-2					
Laboratory ID:	03-119-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	25	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP 0313					
Laboratory ID:	03-119-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	2.1	0.20	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	0.21	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	36	0.20	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	2.0	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP 0313					
Laboratory ID:	03-119-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	23	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0315W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloromethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Vinyl Chloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Iodomethane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Methylene Chloride	ND	1.0	EPA 8260C	3-15-17	3-15-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chloroform	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Trichloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromomethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromodichloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	3-15-17	3-15-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0315W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Tetrachloroethene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Dibromochloromethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Chlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Bromoform	ND	1.0	EPA 8260C	3-15-17	3-15-17	
Bromobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-15-17	3-15-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-15-17	3-15-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-15-17	3-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	03-119-02										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	8.64	8.64	10.0	10.0	ND	86	86	65-119	0	15	
Benzene	8.91	9.02	10.0	10.0	0.488	84	85	75-117	1	15	
Trichloroethene	9.33	9.09	10.0	10.0	0.397	89	87	66-111	3	15	
Toluene	9.57	9.59	10.0	10.0	0.392	92	92	79-114	0	15	
Chlorobenzene	8.92	9.04	10.0	10.0	ND	89	90	76-120	1	15	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>						<i>107</i>	<i>116</i>	<i>77-129</i>			
<i>Toluene-d8</i>						<i>95</i>	<i>96</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>						<i>98</i>	<i>94</i>	<i>80-125</i>			



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	03-119-02					
Total Organic Carbon	27	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	UCCMW-16					
Laboratory ID:	03-119-03					
Total Organic Carbon	1.2	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	UCCMW-17					
Laboratory ID:	03-119-04					
Total Organic Carbon	7.0	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	UCCMW-18					
Laboratory ID:	03-119-05					
Total Organic Carbon	59	1.0	SM 5310B	3-14-17	3-14-17	
Client ID:	MW-1					
Laboratory ID:	03-119-06					
Total Organic Carbon	260	1.0	SM 5310B	3-14-17	3-14-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-14-17	3-14-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-066-02							
	ORIG	DUP						
Total Organic Carbon	13.9	13.9	NA	NA	NA	0	15	

MATRIX SPIKE

Laboratory ID:	03-066-02							
	MS	MS		MS				
Total Organic Carbon	23.1	10.0	13.9	92	77-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0314W1							
	SB	SB		SB				
Total Organic Carbon	11.5	10.0	NA	115	96-117	NA	NA	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	03-119-02					
Methane	11000	1000	RSK 175	3-16-17	3-16-17	
Ethane	ND	95	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	9.8	RSK 175	3-16-17	3-16-17	U1

Client ID:	UCCMW-16					
Laboratory ID:	03-119-03					
Methane	19	1.0	RSK 175	3-16-17	3-16-17	
Ethane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethene	ND	0.50	RSK 175	3-16-17	3-16-17	

Client ID:	UCCMW-17					
Laboratory ID:	03-119-04					
Methane	450	50	RSK 175	3-16-17	3-16-17	
Ethane	ND	5.2	RSK 175	3-16-17	3-16-17	U1
Ethene	1.5	0.50	RSK 175	3-16-17	3-16-17	

Client ID:	UCCMW-18					
Laboratory ID:	03-119-05					
Methane	14000	1000	RSK 175	3-16-17	3-16-17	
Ethane	ND	120	RSK 175	3-16-17	3-16-17	U1
Ethene	43	1.0	RSK 175	3-16-17	3-16-17	

Client ID:	MW-1					
Laboratory ID:	03-119-06					
Methane	18000	1000	RSK 175	3-16-17	3-16-17	
Ethane	ND	100	RSK 175	3-16-17	3-16-17	U1
Ethene	ND	11	RSK 175	3-16-17	3-16-17	U1



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
Methane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethane	ND	0.50	RSK 175	3-16-17	3-16-17	
Ethene	ND	0.50	RSK 175	3-16-17	3-16-17	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0316W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.27	4.22	4.42	4.42	N/A	97	95	75-125	1	25	
Ethane	7.87	7.78	8.32	8.32	N/A	95	94	75-125	1	25	
Ethene	8.93	8.09	7.77	7.77	N/A	115	104	75-125	10	25	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	03-119-02					
Nitrate	ND	0.050	EPA 353.2	3-15-17	3-15-17	

Client ID:	UCCMW-16					
Laboratory ID:	03-119-03					
Nitrate	3.1	0.050	EPA 353.2	3-15-17	3-15-17	

Client ID:	UCCMW-17					
Laboratory ID:	03-119-04					
Nitrate	3.6	0.050	EPA 353.2	3-15-17	3-15-17	

Client ID:	UCCMW-18					
Laboratory ID:	03-119-05					
Nitrate	0.35	0.050	EPA 353.2	3-15-17	3-15-17	

Client ID:	MW-1					
Laboratory ID:	03-119-06					
Nitrate	0.13	0.050	EPA 353.2	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Nitrate	ND	0.050	EPA 353.2	3-15-17	3-15-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-119-03							
	ORIG	DUP						
Nitrate	3.07	2.89	NA	NA	NA	6	9	

MATRIX SPIKE								
Laboratory ID:	03-119-03							
	MS	MS		MS				
Nitrate	5.06	2.00	3.07	100	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0315W1							
	SB	SB		SB				
Nitrate	2.38	2.00	NA	119	96-122	NA	NA	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	03-119-02					
Sulfate	ND	25	ASTM D516-07	3-15-17	3-15-17	

Client ID:	UCCMW-16					
Laboratory ID:	03-119-03					
Sulfate	14	5.0	ASTM D516-07	3-15-17	3-15-17	

Client ID:	UCCMW-17					
Laboratory ID:	03-119-04					
Sulfate	30	10	ASTM D516-07	3-15-17	3-15-17	

Client ID:	UCCMW-18					
Laboratory ID:	03-119-05					
Sulfate	ND	25	ASTM D516-07	3-15-17	3-15-17	

Client ID:	MW-1					
Laboratory ID:	03-119-06					
Sulfate	ND	25	ASTM D516-07	3-15-17	3-15-17	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Sulfate	ND	5.0	ASTM D516-07	3-15-17	3-15-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-066-03							
	ORIG	DUP						
Sulfate	30.0	29.9	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	03-066-03							
	MS	MS		MS				
Sulfate	82.3	50.0	30.0	105	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0315W1							
	SB	SB		SB				
Sulfate	9.82	10.0	NA	98	91-113	NA	NA	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-119-02					
Client ID:	UCCMW-26					
Sodium	51000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-119-03					
Client ID:	UCCMW-16					
Sodium	10000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-119-04					
Client ID:	UCCMW-17					
Sodium	31000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-119-05					
Client ID:	UCCMW-18					
Sodium	44000	1100	6010C	3-15-17	3-15-17	
Lab ID:	03-119-06					
Client ID:	MW-1					
Sodium	100000	1100	6010C	3-15-17	3-15-17	



Date of Report: March 17, 2017
Samples Submitted: March 14, 2017
Laboratory Reference: 1703-119
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-15-17
Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0315WM1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: March 17, 2017
Samples Submitted: March 14, 2017
Laboratory Reference: 1703-119
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 3-15-17

Date Analyzed: 3-15-17

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-066-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	44600	45600	2	1100	



Date of Report: March 17, 2017
Samples Submitted: March 14, 2017
Laboratory Reference: 1703-119
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 3-15-17

Date Analyzed: 3-15-17

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-066-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	66100	97	65500	94	1	



Date of Report: March 17, 2017
 Samples Submitted: March 14, 2017
 Laboratory Reference: 1703-119
 Project: 2007-098-22

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-119-02					
Client ID:	UCCMW-26					
Sodium	46000	1100	6010C		3-15-17	
Lab ID:	03-119-03					
Client ID:	UCCMW-16					
Sodium	10000	1100	6010C		3-15-17	
Lab ID:	03-119-04					
Client ID:	UCCMW-17					
Sodium	30000	1100	6010C		3-15-17	
Lab ID:	03-119-05					
Client ID:	UCCMW-18					
Sodium	40000	1100	6010C		3-15-17	
Lab ID:	03-119-06					
Client ID:	MW-1					
Sodium	88000	1100	6010C		3-15-17	



Date of Report: March 17, 2017
Samples Submitted: March 14, 2017
Laboratory Reference: 1703-119
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 3-15-17
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0315D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: March 17, 2017
Samples Submitted: March 14, 2017
Laboratory Reference: 1703-119
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-066-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	15500	16300	5	1100	



Date of Report: March 17, 2017
Samples Submitted: March 14, 2017
Laboratory Reference: 1703-119
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 3-15-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 03-066-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	36600	95	37000	97	1	





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-naphthalene) 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





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: **03-119**

Company: **HWA Geosciences**

Project Number: **2007-048-22**

Project Name: **Ultra Cleaners (UCC)**

Project Manager: **Arnie Seger**

Sampled by: **Austin York**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 (other) _____

Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix

1	UCCmw-27	3-13-17	0913	Waters
2	UCCmw-26		1006	
3	UCCmw-16		1128	
4	UCCmw-17		1342	
5	UCCmw-18		1442	
6	MW-1		1525	
7	INS-2		1558	
8	DUP 0313	3-13-17		Waters

Number of Containers

	NWTPH-HCID	
	NWTPH-Gx/BTEX	
	NWTPH-Gx	
	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
	Volatiles 8260C	
	Halogenated Volatiles 8260C	X
	EDB EPA 8011 (Waters Only)	
	Semivolatiles 8270D/SIM (with low-level PAHs)	
	PAHs 8270D/SIM (low-level)	
	PCBs 8082A	
	Organochlorine Pesticides 8081B	
	Organophosphorus Pesticides 8270D/SIM	
	Chlorinated Acid Herbicides 8151A	
	Total RCRA Metals	
	Total MTCA Metals	
	TCLP Metals	
	HEM (oil and grease) 1664A	
	TOC	X
	Methane/Ethane/Ether	X
	Nitrate/Sulfate	X
	Total/Dissolved Na+	X
	% Moisture	

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished	<i>Austin York</i>	HWA Geosciences	3-14-17	0930	* Dissolved Samples Field Filtered
Received	<i>Arnie Seger</i>	Speedy	3/14/17	955	
Relinquished	<i>Austin York</i>	Speedy	3/14/17	1035	
Received	<i>Arnie Seger</i>	ORE	3/14/17	1035	
Relinquished	<i>Austin York</i>				
Received					
Relinquished					
Received					
Reviewed/Date					

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

May 20, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1405-091

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 12, 2014.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 20, 2014
Samples Submitted: May 12, 2014
Laboratory Reference: 1405-091
Project: 2007-098-2003

Case Narrative

Samples were collected on May 10 and 11, 2014 and received by the laboratory on May 12, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	05-091-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	05-091-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	1.7	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	05-091-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	05-091-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14S					
Laboratory ID:	05-091-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14S					
Laboratory ID:	05-091-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	6.0	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-15					
Laboratory ID:	05-091-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-15					
Laboratory ID:	05-091-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	4.8	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11S					
Laboratory ID:	05-091-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11S					
Laboratory ID:	05-091-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	0.28	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	05-091-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	05-091-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 1					
Laboratory ID:	05-091-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 1					
Laboratory ID:	05-091-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	05-091-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	05-091-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0513W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloromethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Iodomethane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-13-14	5-13-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chloroform	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Trichloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromomethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-13-14	5-13-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0513W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Bromoform	ND	1.0	EPA 8260C	5-13-14	5-13-14	
Bromobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-13-14	5-13-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-13-14	5-13-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-13-14	5-13-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-13-14	5-13-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0513W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.71	7.94	10.0	10.0	87	79	63-142	9	17	
Benzene	9.04	9.22	10.0	10.0	90	92	78-125	2	15	
Trichloroethene	8.69	8.98	10.0	10.0	87	90	80-125	3	15	
Toluene	9.02	8.83	10.0	10.0	90	88	80-125	2	15	
Chlorobenzene	8.89	9.10	10.0	10.0	89	91	80-140	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>106</i>	<i>62-122</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>94</i>	<i>70-120</i>			
<i>4-Bromofluorobenzene</i>					<i>97</i>	<i>98</i>	<i>71-120</i>			

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	05-091-01					
Nitrate	9.2	0.25	EPA 353.2	5-13-14	5-13-14	
Client ID:	UCCMW-12S					
Laboratory ID:	05-091-02					
Nitrate	4.1	0.050	EPA 353.2	5-13-14	5-13-14	
Client ID:	UCCMW-14S					
Laboratory ID:	05-091-03					
Nitrate	3.9	0.050	EPA 353.2	5-13-14	5-13-14	
Client ID:	UCCMW-15					
Laboratory ID:	05-091-04					
Nitrate	3.6	0.050	EPA 353.2	5-13-14	5-13-14	
Client ID:	UCCMW-11S					
Laboratory ID:	05-091-05					
Nitrate	3.8	0.050	EPA 353.2	5-13-14	5-13-14	
Client ID:	MW-2					
Laboratory ID:	05-091-06					
Nitrate	8.0	0.10	EPA 353.2	5-13-14	5-13-14	
Client ID:	Dup 1					
Laboratory ID:	05-091-07					
Nitrate	3.1	0.050	EPA 353.2	5-13-14	5-13-14	
Client ID:	UCCMW-17					
Laboratory ID:	05-091-08					
Nitrate	3.1	0.050	EPA 353.2	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Nitrate	ND	0.050	EPA 353.2	5-13-14	5-13-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-01							
	ORIG	DUP						
Nitrate	9.22	9.38	NA	NA	NA	2	16	

MATRIX SPIKE								
Laboratory ID:	05-091-01							
	MS	MS		MS				
Nitrate	19.0	10.00	9.22	98	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0513W1							
	SB	SB		SB				
Nitrate	2.02	2.00	NA	101	86-114	NA	NA	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	05-091-01					
Sulfate	110	25	ASTM D516-07	5-13-14	5-13-14	
Client ID:	UCCMW-12S					
Laboratory ID:	05-091-02					
Sulfate	38	25	ASTM D516-07	5-13-14	5-13-14	
Client ID:	UCCMW-14S					
Laboratory ID:	05-091-03					
Sulfate	110	25	ASTM D516-07	5-13-14	5-13-14	
Client ID:	UCCMW-15					
Laboratory ID:	05-091-04					
Sulfate	42	10	ASTM D516-07	5-13-14	5-13-14	
Client ID:	UCCMW-11S					
Laboratory ID:	05-091-05					
Sulfate	90	25	ASTM D516-07	5-13-14	5-13-14	
Client ID:	MW-2					
Laboratory ID:	05-091-06					
Sulfate	36	10	ASTM D516-07	5-13-14	5-13-14	
Client ID:	Dup 1					
Laboratory ID:	05-091-07					
Sulfate	10	5.0	ASTM D516-07	5-13-14	5-13-14	
Client ID:	UCCMW-17					
Laboratory ID:	05-091-08					
Sulfate	11	5.0	ASTM D516-07	5-13-14	5-13-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Sulfate	ND	5.0	ASTM D516-07	5-13-14	5-13-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-02							
	ORIG	DUP						
Sulfate	37.8	38.4	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	05-091-02							
	MS	MS		MS				
Sulfate	89.2	50.0	37.8	103	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0513W1							
	SB	SB		SB				
Sulfate	9.45	10.0	NA	95	91-114	NA	NA	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	05-091-01					
Total Organic Carbon	2.3	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-12S					
Laboratory ID:	05-091-02					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-14S					
Laboratory ID:	05-091-03					
Total Organic Carbon	2.8	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-15					
Laboratory ID:	05-091-04					
Total Organic Carbon	1.4	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-11S					
Laboratory ID:	05-091-05					
Total Organic Carbon	2.0	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	MW-2					
Laboratory ID:	05-091-06					
Total Organic Carbon	4.9	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	Dup 1					
Laboratory ID:	05-091-07					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-17					
Laboratory ID:	05-091-08					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-01							
	ORIG	DUP						
Total Organic Carbon	2.34	2.34	NA	NA	NA	0	15	

MATRIX SPIKE

Laboratory ID:	05-091-01							
	MS	MS		MS				
Total Organic Carbon	12.5	10.0	2.34	102	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0519W1							
	SB	SB		SB				
Total Organic Carbon	9.78	10.0	NA	98	91-119	NA	NA	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	05-091-01					
Methane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-12S					
Laboratory ID:	05-091-02					
Methane	0.89	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-14S					
Laboratory ID:	05-091-03					
Methane	5.8	0.50	RSK 175	5-15-14	5-15-14	
Ethane	1.3	0.50	RSK 175	5-15-14	5-15-14	
Ethene	0.67	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-15					
Laboratory ID:	05-091-04					
Methane	0.93	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-11S					
Laboratory ID:	05-091-05					
Methane	3.5	0.50	RSK 175	5-15-14	5-15-14	
Ethane	0.69	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	MW-2					
Laboratory ID:	05-091-06					
Methane	20	1.5	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

DISSOLVED GASES
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 1					
Laboratory ID:	05-091-07					
Methane	1.7	0.50	RSK 175	5-15-14	5-15-14	
Ethane	0.53	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-17					
Laboratory ID:	05-091-08					
Methane	1.5	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Date of Report: May 20, 2014
 Samples Submitted: May 12, 2014
 Laboratory Reference: 1405-091
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515W1					
Methane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0515W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.78	4.74	4.42	4.42	N/A	108	107	75-125	1	25	
Ethane	7.74	7.74	8.32	8.32	N/A	93	93	75-125	0	25	
Ethene	7.98	7.67	7.77	7.77	N/A	103	99	75-125	4	25	



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-naphthalene) 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



MVA Onsite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TTPH analysis 5 Days)

_____ (other)

Laboratory Number: **05-091**

Company: **HWA Geo Sciences**
Project Number: **2007-098-2003**
Project Name: **Case Property IA**
Project Manager: **Arnie Sugar**
Sampled by: **Norm Nielsen**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	MW-3R	5/10/14	16:21	W
2	UCC MW-12S	5/10/14	18:28	7
3	UCC MW-14S	5/11/14	9:22	7
4	UCC MW-15	5/11/14	11:08	7
5	UCC MW-11S	5/11/14	12:38	7
6	MW-2	5/11/14	14:18	7
7	Dap 1	5/11/14	15:00	7
8	UCC MW-17	5/11/14	15:56	7

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Nitrate (NO_3^-)	Sulfate (SO_4^-)	Total Organic Carbon	Methane/ethene/ethane	% Moisture
7						X											X	X	X	X	X
7						X											X	X	X	X	X
7						X											X	X	X	X	X
7						X											X	X	X	X	X
7						X											X	X	X	X	X
7						X											X	X	X	X	X
7						X											X	X	X	X	X
7						X											X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	HWA Geo Sciences	5/14/14	8:40am	
<i>[Signature]</i>	Starry MSA	"	"	
<i>[Signature]</i>	"	"	9:24	
<i>[Signature]</i>	ORE	5/14/14	09:27	



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

May 21, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1405-099

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 13, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 21, 2014
Samples Submitted: May 13, 2014
Laboratory Reference: 1405-099
Project: 2007-098-2003

Case Narrative

Samples were collected on May 12, 2014 and received by the laboratory on May 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	13	0.20	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	4.9	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	21	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	2.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	32	0.40	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	10	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	62	0.40	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.54	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	0.20	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0514W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0514W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0514W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.97	8.75	10.0	10.0	80	88	63-142	9	17	
Benzene	8.83	9.16	10.0	10.0	88	92	78-125	4	15	
Trichloroethene	9.04	9.18	10.0	10.0	90	92	80-125	2	15	
Toluene	9.26	9.51	10.0	10.0	93	95	80-125	3	15	
Chlorobenzene	8.88	8.92	10.0	10.0	89	89	80-140	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	104	62-122			
<i>Toluene-d8</i>					98	101	70-120			
<i>4-Bromofluorobenzene</i>					94	96	71-120			

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Nitrate	6.0	0.10	EPA 353.2	5-13-14	5-13-14	

Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Nitrate	3.6	0.050	EPA 353.2	5-13-14	5-13-14	

Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Nitrate	ND	0.050	EPA 353.2	5-13-14	5-13-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Nitrate	ND	0.050	EPA 353.2	5-13-14	5-13-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-01							
	ORIG	DUP						
Nitrate	9.22	9.38	NA	NA	NA	2	16	

MATRIX SPIKE								
Laboratory ID:	05-091-01							
	MS	MS		MS				
Nitrate	19.0	10.00	9.22	98	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0513W1							
	SB	SB		SB				
Nitrate	2.02	2.00	NA	101	86-114	NA	NA	

Date of Report: May 21, 2014
Samples Submitted: May 13, 2014
Laboratory Reference: 1405-099
Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Sulfate	13	5.0	ASTM D516-07	5-13-14	5-13-14	

Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Sulfate	17	5.0	ASTM D516-07	5-13-14	5-13-14	

Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Sulfate	ND	5.0	ASTM D516-07	5-13-14	5-13-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Sulfate	ND	5.0	ASTM D516-07	5-13-14	5-13-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-02							
	ORIG	DUP						
Sulfate	37.8	38.4	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	05-091-02							
	MS	MS		MS				
Sulfate	89.2	50.0	37.8	103	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0513W1							
	SB	SB		SB				
Sulfate	9.45	10.0	NA	95	91-114	NA	NA	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-01							
	ORIG	DUP						
Total Organic Carbon	2.34	2.34	NA	NA	NA	0	15	

MATRIX SPIKE

Laboratory ID:	05-091-01							
	MS	MS		MS				
Total Organic Carbon	12.5	10.0	2.34	102	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0519W1							
	SB	SB		SB				
Total Organic Carbon	9.78	10.0	NA	98	91-119	NA	NA	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Methane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethene	ND	0.50	RSK 175	5-16-14	5-16-14	

Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Methane	15	1.0	RSK 175	5-16-14	5-16-14	
Ethane	3.3	0.50	RSK 175	5-16-14	5-16-14	
Ethene	1.7	0.50	RSK 175	5-16-14	5-16-14	

Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Methane	1.9	0.50	RSK 175	5-16-14	5-16-14	
Ethane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethene	ND	0.50	RSK 175	5-16-14	5-16-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Methane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethene	ND	0.50	RSK 175	5-16-14	5-16-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0516W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.05	4.00	4.42	4.42	N/A	92	90	75-125	1	25	
Ethane	7.31	6.91	8.32	8.32	N/A	88	83	75-125	6	25	
Ethene	7.36	7.31	7.77	7.77	N/A	95	94	75-125	1	25	



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-naphthalene) 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



OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **05-099**

Company: **HWA Gas Sciences**
 Project Number: **2007-098-2003**
 Project Name: **Case Property EA**
 Project Manager: **Arnie Sagar**
 Sampled by: **Norm Nielsen**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	MU-1	5/12/14	15:38	U
2	OCC MU-19	5/12/14	17:09	U
3	OCC MU-4	5/12/14	18:17	U

Number of Containers	Laboratory Tests																				
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Nitrate	Sulfate	Total Organic Carbon	Methane/ethane/ethane	% Moisture
7						X											X	X	X	X	
7						X											X	X	X	X	
7						X											X	X	X	X	

Relinquished	Received	Relinquished	Received	Relinquished	Received
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
HWA	HWA	Sagar	Sagar	Sagar	Sagar
9/18	8/18	5/13	5/13	5/13/14	5/13/14
944	941	10/18	10/18	10/18	10/18

Reviewed/Date _____

Reviewed/Date _____

Chromatograms with final report

Data Package: Standard Level III Level IV

Electronic Data Deliverables (EDDs)



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

May 21, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1405-099

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 13, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 21, 2014
Samples Submitted: May 13, 2014
Laboratory Reference: 1405-099
Project: 2007-098-2003

Case Narrative

Samples were collected on May 12, 2014 and received by the laboratory on May 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	13	0.20	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	4.9	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	21	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	2.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	32	0.40	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	10	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	62	0.40	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	2.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.54	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	0.20	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0514W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloromethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Iodomethane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chloroform	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Trichloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromomethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-14-14	5-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-14-14	5-14-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0514W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Bromoform	ND	1.0	EPA 8260C	5-14-14	5-14-14	
Bromobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-14-14	5-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-14-14	5-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-14-14	5-14-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	5-14-14	5-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0514W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.97	8.75	10.0	10.0	80	88	63-142	9	17	
Benzene	8.83	9.16	10.0	10.0	88	92	78-125	4	15	
Trichloroethene	9.04	9.18	10.0	10.0	90	92	80-125	2	15	
Toluene	9.26	9.51	10.0	10.0	93	95	80-125	3	15	
Chlorobenzene	8.88	8.92	10.0	10.0	89	89	80-140	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	104	62-122			
<i>Toluene-d8</i>					98	101	70-120			
<i>4-Bromofluorobenzene</i>					94	96	71-120			

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Nitrate	6.0	0.10	EPA 353.2	5-13-14	5-13-14	

Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Nitrate	3.6	0.050	EPA 353.2	5-13-14	5-13-14	

Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Nitrate	ND	0.050	EPA 353.2	5-13-14	5-13-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Nitrate	ND	0.050	EPA 353.2	5-13-14	5-13-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-01							
	ORIG	DUP						
Nitrate	9.22	9.38	NA	NA	NA	2	16	

MATRIX SPIKE								
Laboratory ID:	05-091-01							
	MS	MS		MS				
Nitrate	19.0	10.00	9.22	98	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0513W1							
	SB	SB		SB				
Nitrate	2.02	2.00	NA	101	86-114	NA	NA	

Date of Report: May 21, 2014
Samples Submitted: May 13, 2014
Laboratory Reference: 1405-099
Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Sulfate	13	5.0	ASTM D516-07	5-13-14	5-13-14	

Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Sulfate	17	5.0	ASTM D516-07	5-13-14	5-13-14	

Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Sulfate	ND	5.0	ASTM D516-07	5-13-14	5-13-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Sulfate	ND	5.0	ASTM D516-07	5-13-14	5-13-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-02							
	ORIG	DUP						
Sulfate	37.8	38.4	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	05-091-02							
	MS	MS		MS				
Sulfate	89.2	50.0	37.8	103	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0513W1							
	SB	SB		SB				
Sulfate	9.45	10.0	NA	95	91-114	NA	NA	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-01							
	ORIG	DUP						
Total Organic Carbon	2.34	2.34	NA	NA	NA	0	15	

MATRIX SPIKE

Laboratory ID:	05-091-01							
	MS	MS		MS				
Total Organic Carbon	12.5	10.0	2.34	102	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0519W1							
	SB	SB		SB				
Total Organic Carbon	9.78	10.0	NA	98	91-119	NA	NA	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-099-01					
Methane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethene	ND	0.50	RSK 175	5-16-14	5-16-14	

Client ID:	UCCMW-19					
Laboratory ID:	05-099-02					
Methane	15	1.0	RSK 175	5-16-14	5-16-14	
Ethane	3.3	0.50	RSK 175	5-16-14	5-16-14	
Ethene	1.7	0.50	RSK 175	5-16-14	5-16-14	

Client ID:	UCCMW-4					
Laboratory ID:	05-099-03					
Methane	1.9	0.50	RSK 175	5-16-14	5-16-14	
Ethane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethene	ND	0.50	RSK 175	5-16-14	5-16-14	

Date of Report: May 21, 2014
 Samples Submitted: May 13, 2014
 Laboratory Reference: 1405-099
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Methane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethane	ND	0.50	RSK 175	5-16-14	5-16-14	
Ethene	ND	0.50	RSK 175	5-16-14	5-16-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0516W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.05	4.00	4.42	4.42	N/A	92	90	75-125	1	25	
Ethane	7.31	6.91	8.32	8.32	N/A	88	83	75-125	6	25	
Ethene	7.36	7.31	7.77	7.77	N/A	95	94	75-125	1	25	



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-naphthalene) 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



OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **05-099**

Company: **HWA Gas Sciences**
 Project Number: **2007-098-2003**
 Project Name: **Case Property EA**
 Project Manager: **Arnie Sagar**
 Sampled by: **Norm Nielsen**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	MU-1	5/12/14	15:38	W
2	OCC MU-19	5/12/14	17:09	W
3	OCC MU-4	5/12/14	18:17	W

Number of Containers	Laboratory Analysis																				
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Nitrate	Sulfate	Total Organic Carbon	Methane/ethane/ethane	% Moisture
7						X											X	X	X	X	
7						X											X	X	X	X	
7						X											X	X	X	X	

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	HWA	5/12/14	9:44	
<i>[Signature]</i>	Sagar	5/13/14	9:41	
<i>[Signature]</i>	Sagar	5/13/14	10:18	
<i>[Signature]</i>		5/13/14	10:10	

Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date

Reviewed/Date

Chromatograms with final report

Data Package: Standard Level III Level IV

Electronic Data Deliverables (EDDs)



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

May 27, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1405-128

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 15, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 27, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-128
Project: 2007-098-2003

Case Narrative

Samples were collected on May 13 and 14, 2014 and received by the laboratory on May 15, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	05-128-01					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	05-128-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	05-128-02					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	05-128-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	3.5	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-23					
Laboratory ID:	05-128-03					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-23					
Laboratory ID:	05-128-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	2.2	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	05-128-04					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	05-128-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	0.21	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	05-128-05					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	0.44	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	0.34	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	05-128-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	14	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	05-128-06					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	05-128-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 2					
Laboratory ID:	05-128-07					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 2					
Laboratory ID:	05-128-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	05-128-08					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	05-128-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12D					
Laboratory ID:	05-128-09					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12D					
Laboratory ID:	05-128-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	05-128-10					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	05-128-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0516W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	5-16-14	5-16-14	
Chloromethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Iodomethane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-16-14	5-16-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chloroform	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Trichloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromomethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	5-16-14	5-16-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0516W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Bromoform	ND	1.0	EPA 8260C	5-16-14	5-16-14	
Bromobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-16-14	5-16-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-16-14	5-16-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-16-14	5-16-14	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	5-16-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0516W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.98	8.00	10.0	10.0	80	80	63-142	0	17	
Benzene	9.19	9.23	10.0	10.0	92	92	78-125	0	15	
Trichloroethene	9.25	9.11	10.0	10.0	93	91	80-125	2	15	
Toluene	9.61	9.50	10.0	10.0	96	95	80-125	1	15	
Chlorobenzene	9.21	9.25	10.0	10.0	92	93	80-140	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>110</i>	<i>62-122</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>100</i>	<i>70-120</i>			
<i>4-Bromofluorobenzene</i>					<i>92</i>	<i>97</i>	<i>71-120</i>			

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	05-128-01					
Nitrate	3.4	0.10	EPA 353.2	5-15-14	5-15-14	

Client ID:	UCCMW-6					
Laboratory ID:	05-128-02					
Nitrate	1.4	0.050	EPA 353.2	5-15-14	5-15-14	

Client ID:	UCCMW-23					
Laboratory ID:	05-128-03					
Nitrate	0.38	0.050	EPA 353.2	5-15-14	5-15-14	

Client ID:	BB-3					
Laboratory ID:	05-128-04					
Nitrate	2.6	0.050	EPA 353.2	5-15-14	5-15-14	

Client ID:	UCCMW-5					
Laboratory ID:	05-128-05					
Nitrate	0.77	0.050	EPA 353.2	5-15-14	5-15-14	

Client ID:	UCCMW-16					
Laboratory ID:	05-128-06					
Nitrate	1.7	0.050	EPA 353.2	5-15-14	5-15-14	

Client ID:	Dup 2					
Laboratory ID:	05-128-07					
Nitrate	0.47	0.050	EPA 353.2	5-15-14	5-15-14	

Date of Report: May 27, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-128
Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	05-128-08					
Nitrate	5.7	0.10	EPA 353.2	5-15-14	5-15-14	

Client ID:	UCCMW-12D					
Laboratory ID:	05-128-09					
Nitrate	0.44	0.050	EPA 353.2	5-15-14	5-15-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515W1					
Nitrate	ND	0.050	EPA 353.2	5-15-14	5-15-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-128-01							
	ORIG	DUP						
Nitrate	3.36	3.45	NA	NA	NA	3	16	

MATRIX SPIKE								
Laboratory ID:	05-128-01							
	MS	MS		MS				
Nitrate	7.57	4.00	3.36	105	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0515W1							
	SB	SB		SB				
Nitrate	2.05	2.00	NA	103	86-114	NA	NA	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	05-128-01					
Sulfate	29	10	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-6					
Laboratory ID:	05-128-02					
Sulfate	16	10	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-23					
Laboratory ID:	05-128-03					
Sulfate	10.0	5.0	ASTM D516-07	5-19-14	5-19-14	

Client ID:	BB-3					
Laboratory ID:	05-128-04					
Sulfate	18	5.0	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-5					
Laboratory ID:	05-128-05					
Sulfate	9.4	5.0	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-16					
Laboratory ID:	05-128-06					
Sulfate	16	5.0	ASTM D516-07	5-19-14	5-19-14	

Client ID:	Dup 2					
Laboratory ID:	05-128-07					
Sulfate	15	10	ASTM D516-07	5-19-14	5-19-14	

Date of Report: May 27, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-128
Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	05-128-08					
Sulfate	110	25	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-12D					
Laboratory ID:	05-128-09					
Sulfate	14	10	ASTM D516-07	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519W2					
Sulfate	ND	5.0	ASTM D516-07	5-19-14	5-19-14	

Laboratory ID:	MB0519F1					
Sulfate	ND	5.0	ASTM D516-07	5-19-14	5-19-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-128-02							
	ORIG	DUP						
Sulfate	16.1	15.7	NA	NA	NA	3	10	

Laboratory ID:	05-128-03							
	ORIG	DUP						
Sulfate	9.96	9.92	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	05-128-02							
	MS	MS		MS				
Sulfate	34.5	20.0	16.1	92	82-123	NA	NA	

Laboratory ID:	05-128-03							
	MS	MS		MS				
Sulfate	19.2	10.0	9.96	92	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0519W2							
	SB	SB		SB				
Sulfate	10.1	10.0	NA	101	91-114	NA	NA	

Laboratory ID:	SB0519F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	91-114	NA	NA	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	05-128-01					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-6					
Laboratory ID:	05-128-02					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-23					
Laboratory ID:	05-128-03					
Total Organic Carbon	1.9	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	BB-3					
Laboratory ID:	05-128-04					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-5					
Laboratory ID:	05-128-05					
Total Organic Carbon	1.7	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	UCCMW-16					
Laboratory ID:	05-128-06					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	
Client ID:	Dup 2					
Laboratory ID:	05-128-07					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Date of Report: May 27, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-128
Project: 2007-098-2003

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	05-128-08					
Total Organic Carbon	1.4	1.0	SM 5310B	5-19-14	5-19-14	

Client ID:	UCCMW-12D					
Laboratory ID:	05-128-09					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-19-14	5-19-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-091-01							
	ORIG	DUP						
Total Organic Carbon	2.34	2.34	NA	NA	NA	NA	0	15

MATRIX SPIKE

Laboratory ID:	05-091-01							
	MS	MS		MS				
Total Organic Carbon	12.5		10.0	2.34	102	70-124	NA	NA

SPIKE BLANK

Laboratory ID:	SB0519W1							
	SB	SB		SB				
Total Organic Carbon	9.78		10.0	NA	98	91-119	NA	NA

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	05-128-01					
Methane	1.8	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-6					
Laboratory ID:	05-128-02					
Methane	0.99	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-23					
Laboratory ID:	05-128-03					
Methane	34	2.0	RSK 175	5-15-14	5-15-14	
Ethane	3.9	0.50	RSK 175	5-15-14	5-15-14	
Ethene	2.0	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	BB-3					
Laboratory ID:	05-128-04					
Methane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-5					
Laboratory ID:	05-128-05					
Methane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-16					
Laboratory ID:	05-128-06					
Methane	2.5	0.50	RSK 175	5-15-14	5-15-14	
Ethane	0.63	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 2					
Laboratory ID:	05-128-07					
Methane	77	5.0	RSK 175	5-15-14	5-15-14	
Ethane	12	0.50	RSK 175	5-15-14	5-15-14	
Ethene	6.5	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-12S					
Laboratory ID:	05-128-08					
Methane	1.7	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Client ID:	UCCMW-12D					
Laboratory ID:	05-128-09					
Methane	71	5.0	RSK 175	5-15-14	5-15-14	
Ethane	12	0.50	RSK 175	5-15-14	5-15-14	
Ethene	6.3	0.50	RSK 175	5-15-14	5-15-14	

Date of Report: May 27, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-128
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515W1					
Methane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethane	ND	0.50	RSK 175	5-15-14	5-15-14	
Ethene	ND	0.50	RSK 175	5-15-14	5-15-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0515W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.78	4.74	4.42	4.42	N/A	108	107	75-125	1	25	
Ethane	7.74	7.74	8.32	8.32	N/A	93	93	75-125	0	25	
Ethene	7.98	7.67	7.77	7.77	N/A	103	99	75-125	4	25	



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-naphthalene) 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



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

May 27, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1405-138

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 16, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 27, 2014
Samples Submitted: May 16, 2014
Laboratory Reference: 1405-138
Project: 2007-098-2003

Case Narrative

Samples were collected on May 15, 2014 and received by the laboratory on May 16, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	05-138-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	1.2	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	05-138-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	27	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-13S					
Laboratory ID:	05-138-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-13S					
Laboratory ID:	05-138-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	1.0	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	05-138-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	6.8	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	5.9	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	05-138-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	43	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	05-138-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	0.35	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	05-138-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	13	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	05-138-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	0.33	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	05-138-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	6.9	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-24					
Laboratory ID:	05-138-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-24					
Laboratory ID:	05-138-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	2.2	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11D					
Laboratory ID:	05-138-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11D					
Laboratory ID:	05-138-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	05-138-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	05-138-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0519W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloromethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Iodomethane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chloroform	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Trichloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromomethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-19-14	5-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0519W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Tetrachloroethene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Bromoform	ND	1.0	EPA 8260C	5-19-14	5-19-14	
Bromobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-19-14	5-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-19-14	5-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-19-14	5-19-14	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	5-19-14	5-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0519W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	13.2	11.9	10.0	10.0	132	119	63-142	10	17	
Benzene	10.6	10.5	10.0	10.0	106	105	78-125	1	15	
Trichloroethene	10.5	10.1	10.0	10.0	105	101	80-125	4	15	
Toluene	10.6	10.3	10.0	10.0	106	103	80-125	3	15	
Chlorobenzene	9.89	9.53	10.0	10.0	99	95	80-140	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					110	113	62-122			
Toluene-d8					98	101	70-120			
4-Bromofluorobenzene					96	99	71-120			

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	05-138-01					
Nitrate	2.2	0.050	EPA 353.2	5-16-14	5-16-14	

Client ID:	UCCMW-13S					
Laboratory ID:	05-138-02					
Nitrate	4.6	0.050	EPA 353.2	5-16-14	5-16-14	

Client ID:	UCCMW-20					
Laboratory ID:	05-138-03					
Nitrate	2.1	0.050	EPA 353.2	5-16-14	5-16-14	

Client ID:	UCCMW-21					
Laboratory ID:	05-138-04					
Nitrate	1.3	0.050	EPA 353.2	5-16-14	5-16-14	

Client ID:	UCCMW-25					
Laboratory ID:	05-138-05					
Nitrate	3.9	0.050	EPA 353.2	5-16-14	5-16-14	

Client ID:	UCCMW-24					
Laboratory ID:	05-138-06					
Nitrate	2.6	0.050	EPA 353.2	5-16-14	5-16-14	

Client ID:	UCCMW-11D					
Laboratory ID:	05-138-07					
Nitrate	1.9	0.050	EPA 353.2	5-16-14	5-16-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Nitrate	ND	0.050	EPA 353.2	5-16-14	5-16-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-138-01							
	ORIG	DUP						
Nitrate	2.23	2.21	NA	NA	NA	1	16	

MATRIX SPIKE								
Laboratory ID:	05-138-01							
	MS	MS		MS				
Nitrate	4.37	2.00	2.23	107	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Nitrate	1.96	2.00	NA	98	86-114	NA	NA	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	05-138-01					
Sulfate	28	10	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-13S					
Laboratory ID:	05-138-02					
Sulfate	59	25	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-20					
Laboratory ID:	05-138-03					
Sulfate	11	5.0	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-21					
Laboratory ID:	05-138-04					
Sulfate	49	10	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-25					
Laboratory ID:	05-138-05					
Sulfate	24	5.0	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-24					
Laboratory ID:	05-138-06					
Sulfate	18	5.0	ASTM D516-07	5-19-14	5-19-14	

Client ID:	UCCMW-11D					
Laboratory ID:	05-138-07					
Sulfate	13	5.0	ASTM D516-07	5-19-14	5-19-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519W2					
Sulfate	ND	5.0	ASTM D516-07	5-19-14	5-19-14	

Laboratory ID:	MB0519F1					
Sulfate	ND	5.0	ASTM D516-07	5-19-14	5-19-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-128-02							
	ORIG	DUP						
Sulfate	16.1	15.7	NA	NA	NA	3	10	

Laboratory ID:	05-128-03							
	ORIG	DUP						
Sulfate	9.96	9.92	NA	NA	NA	0	10	

MATRIX SPIKE

Laboratory ID:	05-128-02							
	MS	MS		MS				
Sulfate	34.5	20.0	16.1	92	82-123	NA	NA	

Laboratory ID:	05-128-03							
	MS	MS		MS				
Sulfate	19.2	10.0	9.96	92	82-123	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0519W2							
	SB	SB		SB				
Sulfate	10.1	10.0	NA	101	91-114	NA	NA	

Laboratory ID:	SB0519F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	91-114	NA	NA	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	05-138-01					
Total Organic Carbon	ND	1.0	SM 5310B	5-21-14	5-21-14	
Client ID:	UCCMW-13S					
Laboratory ID:	05-138-02					
Total Organic Carbon	ND	1.0	SM 5310B	5-21-14	5-21-14	
Client ID:	UCCMW-20					
Laboratory ID:	05-138-03					
Total Organic Carbon	1.0	1.0	SM 5310B	5-21-14	5-21-14	
Client ID:	UCCMW-21					
Laboratory ID:	05-138-04					
Total Organic Carbon	3.0	1.0	SM 5310B	5-21-14	5-21-14	
Client ID:	UCCMW-25					
Laboratory ID:	05-138-05					
Total Organic Carbon	ND	1.0	SM 5310B	5-21-14	5-21-14	
Client ID:	UCCMW-24					
Laboratory ID:	05-138-06					
Total Organic Carbon	1.7	1.0	SM 5310B	5-21-14	5-21-14	
Client ID:	UCCMW-11D					
Laboratory ID:	05-138-07					
Total Organic Carbon	ND	1.0	SM 5310B	5-21-14	5-21-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0521W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-21-14	5-21-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-138-01							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE

Laboratory ID:	05-138-01							
	MS	MS		MS				
Total Organic Carbon	10.5	10.0	ND	105	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0521W1							
	SB	SB		SB				
Total Organic Carbon	10.4	10.0	NA	104	91-119	NA	NA	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	05-138-01					
Methane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethene	ND	0.50	RSK 175	5-22-14	5-22-14	

Client ID:	UCCMW-13S					
Laboratory ID:	05-138-02					
Methane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethene	ND	0.50	RSK 175	5-22-14	5-22-14	

Client ID:	UCCMW-20					
Laboratory ID:	05-138-03					
Methane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethene	ND	0.50	RSK 175	5-22-14	5-22-14	

Client ID:	UCCMW-21					
Laboratory ID:	05-138-04					
Methane	5.4	0.50	RSK 175	5-22-14	5-22-14	
Ethane	1.4	0.50	RSK 175	5-22-14	5-22-14	
Ethene	1.0	0.50	RSK 175	5-22-14	5-22-14	

Client ID:	UCCMW-25					
Laboratory ID:	05-138-05					
Methane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethene	ND	0.50	RSK 175	5-22-14	5-22-14	

Client ID:	UCCMW-24					
Laboratory ID:	05-138-06					
Methane	3.9	0.50	RSK 175	5-22-14	5-22-14	
Ethane	1.2	0.50	RSK 175	5-22-14	5-22-14	
Ethene	0.71	0.50	RSK 175	5-22-14	5-22-14	

Date of Report: May 27, 2014
Samples Submitted: May 16, 2014
Laboratory Reference: 1405-138
Project: 2007-098-2003

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11D					
Laboratory ID:	05-138-07					
Methane	3.2	0.50	RSK 175	5-22-14	5-22-14	
Ethane	0.93	0.50	RSK 175	5-22-14	5-22-14	
Ethene	ND	0.50	RSK 175	5-22-14	5-22-14	

Date of Report: May 27, 2014
 Samples Submitted: May 16, 2014
 Laboratory Reference: 1405-138
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0522W1					
Methane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethane	ND	0.50	RSK 175	5-22-14	5-22-14	
Ethene	ND	0.50	RSK 175	5-22-14	5-22-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0522W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.29	4.58	4.42	4.42	N/A	97	104	75-125	7	25	
Ethane	7.17	7.70	8.32	8.32	N/A	86	93	75-125	7	25	
Ethene	7.12	7.52	7.77	7.77	N/A	92	97	75-125	5	25	



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-naphthalene) 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



OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

05-138

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx	
Volatiles 8260C	
Halogenated Volatiles 8260C	X
Semivolatiles 8270D/SIM (with low-level PAHs)	X
PAHs 8270D/SIM (low-level)	X
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
Nitrate	X
Sulfate	X
Total Organic Carbon	X
Methane/ethene/ethane	X
% Moisture	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Comments/Special Instructions
1	OCC MW-7	5/15/14	7:04	W	7	
2	OCC MW-13S		9:06	W	7	
3	OCC MW-20		11:00	W	7	
4	OCC MW-21		12:14	W	7	
5	OCC MW-25		13:38	W	7	
6	OCC MW-24		14:38	W	7	
7	OCC MW-11D		17:12	W	7	
8	Trip Blank		17:30	W	7	

Signature

Company

Date

Time

Comments/Special Instructions

THAT GeoSciences 5/16/14 10:05am

SPENT MSG

5/16/14 10:14

SR-ADT AS9

10:40

SR-ADT AS9

5/16/14 10:40



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

May 16, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1605-044

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 4, 2016.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 16, 2016
Samples Submitted: May 4, 2016
Laboratory Reference: 1605-044
Project: 2007-098-22

Case Narrative

Samples were collected on May 3 and 4, 2016 and received by the laboratory on May 4, 2016. 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.

TOC by SM 5310B Analysis

Samples MW-1 and DUP-0504 (05-044-05 & 05-044-06) were received at a pH of 5.0. The samples were preserved with 1:1 HCl to a pH of less than 2 before analysis

Sulfate ASTM D516-07 Analysis

Samples UCC MW-18, MW-1 and DUP-0504 (05-044-04,05 &06) PQL's were increased due to sample interference.

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.



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-16					
Laboratory ID:	05-044-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-16					
Laboratory ID:	05-044-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	71-131				
<i>Toluene-d8</i>	103	80-127				
<i>4-Bromofluorobenzene</i>	102	80-125				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-17					
Laboratory ID:	05-044-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	12	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	0.22	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-17					
Laboratory ID:	05-044-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	4.9	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-2					
Laboratory ID:	05-044-03					
Dichlorodifluoromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	50	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	11	10	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	19	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	50	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	10	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	140	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	100	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	10	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	1100	10	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	10	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	10	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	17	10	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	10	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	65	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-2					
Laboratory ID:	05-044-03					
1,1,2-Trichloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	50	10	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	10	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	50	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	10	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	10	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	65	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	10	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	05-044-04					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	240	2.0	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	3.7	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	27	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	4.7	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	390	2.0	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	13	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	05-044-04					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	10	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	13	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-044-05					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	11	2.0	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	3.7	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	27	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	310	2.0	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	2.3	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	13	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	05-044-05					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	3.7	2.0	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	10	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	13	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-0504					
Laboratory ID:	05-044-06					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	12	2.0	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	3.7	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	10	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	27	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	310	2.0	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	2.1	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	13	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-0504					
Laboratory ID:	05-044-06					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	3.8	2.0	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	10	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	13	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	71-131				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	101	80-125				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	05-044-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	05-044-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0509W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0509W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0509W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.87	9.04	10.0	10.0	99	90	62-132	9	20	
Benzene	9.87	9.23	10.0	10.0	99	92	75-121	7	15	
Trichloroethene	9.78	8.82	10.0	10.0	98	88	65-115	10	15	
Toluene	10.9	9.93	10.0	10.0	109	99	78-120	9	15	
Chlorobenzene	10.3	9.64	10.0	10.0	103	96	77-118	7	15	
<i>Surrogate:</i>										
Dibromofluoromethane					91	93	71-131			
Toluene-d8					102	100	80-127			
4-Bromofluorobenzene					102	101	80-125			



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	05-044-04					
Total Organic Carbon	67	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	MW-1					
Laboratory ID:	05-044-05					
Total Organic Carbon	2400	50	SM 5310B	5-16-16	5-16-16	
Client ID:	DUP-0504					
Laboratory ID:	05-044-06					
Total Organic Carbon	2200	50	SM 5310B	5-16-16	5-16-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-11-16	5-11-16	

Laboratory ID:	MB0516W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-16-16	5-16-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-044-04							
	ORIG	DUP						
Total Organic Carbon	66.7	65.8	NA	NA	NA	1	15	

Laboratory ID:	05-044-05							
	ORIG	DUP						
Total Organic Carbon	2360	2250	NA	NA	NA	5	15	

MATRIX SPIKE								
Laboratory ID:	05-044-04							
	MS	MS		MS				
Total Organic Carbon	77.4	10.0	66.7	107	85-119	NA	NA	

Laboratory ID:	05-044-05							
	MS	MS		MS				
Total Organic Carbon	7070	5000	2360	94	85-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0511W1							
	SB	SB		SB				
Total Organic Carbon	11.3	10.0	NA	113	86-115	NA	NA	

Laboratory ID:	SB0516W1							
	SB	SB		SB				
Total Organic Carbon	11.5	10.0	NA	115	86-115	NA	NA	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	05-044-04					
Methane	5500	500	RSK 175	5-10-16	5-10-16	
Ethane	ND	67	RSK 175	5-10-16	5-10-16	U1
Ethene	240	10	RSK 175	5-10-16	5-10-16	

Client ID:	MW-1					
Laboratory ID:	05-044-05					
Methane	5000	500	RSK 175	5-10-16	5-10-16	
Ethane	ND	67	RSK 175	5-10-16	5-10-16	U1
Ethene	7.7	0.50	RSK 175	5-10-16	5-10-16	

Client ID:	DUP-0504					
Laboratory ID:	05-044-06					
Methane	6100	500	RSK 175	5-10-16	5-10-16	
Ethane	ND	67	RSK 175	5-10-16	5-10-16	U1
Ethene	5.2	0.50	RSK 175	5-10-16	5-10-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Methane	ND	0.50	RSK 175	5-10-16	5-10-16	
Ethane	ND	0.50	RSK 175	5-10-16	5-10-16	
Ethene	ND	0.50	RSK 175	5-10-16	5-10-16	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.24	4.33	4.42	4.42	N/A	96	98	75-125	2	25	
Ethane	8.15	8.06	8.32	8.32	N/A	98	97	75-125	1	25	
Ethene	7.37	7.39	7.77	7.77	N/A	95	95	75-125	0	25	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	05-044-04					
Nitrate	2.0	0.050	EPA 353.2	5-5-16	5-5-16	

Client ID:	MW-1					
Laboratory ID:	05-044-05					
Nitrate	0.77	0.050	EPA 353.2	5-5-16	5-5-16	

Client ID:	DUP-0504					
Laboratory ID:	05-044-06					
Nitrate	0.19	0.050	EPA 353.2	5-5-16	5-5-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505W2					
Nitrate	ND	0.050	EPA 353.2	5-5-16	5-5-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-016-01							
	ORIG	DUP						
Nitrate	4.08	4.18	NA	NA	NA	2	12	

MATRIX SPIKE								
Laboratory ID:	05-016-01							
	MS	MS		MS				
Nitrate	16.3	10.0	4.08	122	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0505W2							
	SB	SB		SB				
Nitrate	2.23	2.00	NA	112	96-119	NA	NA	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	05-044-04					
Sulfate	ND	20	ASTM D516-07	5-10-16	5-10-16	

Client ID:	MW-1					
Laboratory ID:	05-044-05					
Sulfate	ND	25	ASTM D516-07	5-10-16	5-10-16	

Client ID:	DUP-0504					
Laboratory ID:	05-044-06					
Sulfate	ND	25	ASTM D516-07	5-10-16	5-10-16	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Sulfate	ND	5.0	ASTM D516-07	5-10-16	5-10-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-016-01							
	ORIG	DUP						
Sulfate	109	106	NA	NA	NA	3	9	

MATRIX SPIKE								
Laboratory ID:	05-016-01							
	MS	MS		MS				
Sulfate	214	100	109	105	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0510W1							
	SB	SB		SB				
Sulfate	9.85	10.0	NA	99	86-116	NA	NA	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-044-04					
Client ID:	UCC MW-18					
Sodium	20000	1000	6010C	5-10-16	5-10-16	
Lab ID:	05-044-05					
Client ID:	MW-1					
Sodium	310000	10000	6010C	5-10-16	5-10-16	
Lab ID:	05-044-06					
Client ID:	DUP-0504					
Sodium	300000	10000	6010C	5-10-16	5-10-16	



Date of Report: May 16, 2016
Samples Submitted: May 4, 2016
Laboratory Reference: 1605-044
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-10-16
Date Analyzed: 5-10-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0510WH2

Analyte	Method	Result	PQL
Sodium	6010C	ND	1000



Date of Report: May 16, 2016
Samples Submitted: May 4, 2016
Laboratory Reference: 1605-044
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 5-10-16

Date Analyzed: 5-10-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 05-044-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	20100	20200	0	1000	



Date of Report: May 16, 2016
 Samples Submitted: May 4, 2016
 Laboratory Reference: 1605-044
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 5-10-16

Date Analyzed: 5-10-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 05-044-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	20000	40300	101	40400	101	0	





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-naphthalene) 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





MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

05-044

Company: **HWA Geosciences**

Project Number: **0007-098**

Project Name: **UWA CC**

Project Manager: **Anne Sygar**

Sampled by: **Austin York**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UCC MW-16	5-3-15	1336	Water
2	UCC MW-17		1436	
3	INS-2		1510	
4	UCC MW-18	5-3-15	1603	
5	MW-1	5-4-15	1426	
6	DUP-0504	5-4-15		
7	Trip Blanks	5-4-15		Water

Number of Containers	Laboratory Analysis																					
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TOC	Methane/Ethane/Ether*	Nitrate/Sulfate*	Total Na*	% Moisture	
3						X																
3																						
3																						
8																						
8																						
8																						
2																						

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Anne Sygar</i>	HWA Geosciences	5-4-16	15:20	* Need lower DLs on Ethane/Ethane + Sulfate
Received	<i>John Foreman</i>	SPEEDY	5/4/16	15:20	
Relinquished	<i>John Foreman</i>	SPEEDY	5/4/16	15:42	
Received	<i>John Foreman</i>	SPEEDY	5/4/16	15:42	
Relinquished	<i>John Foreman</i>	SPEEDY	5/4/16	15:42	
Received					
Received					
Reviewed/Date					Chromatograms with final report <input type="checkbox"/>



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

May 17, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1605-060

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 5, 2016.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 17, 2016
Samples Submitted: May 5, 2016
Laboratory Reference: 1605-060
Project: 2007-098-22

Case Narrative

Samples were collected on May 5, 2016 and received by the laboratory on May 5, 2016. 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.



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	05-060-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	0.22	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	0.49	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	05-060-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	16	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	05-060-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	4.1	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	8.9	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	0.21	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	05-060-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	05-060-05					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.74	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	5.4	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	4.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	05-060-05					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	73	0.40	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	2.6	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-8					
Laboratory ID:	05-060-06					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.74	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	5.4	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	4.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	0.51	0.40	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	0.79	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-8					
Laboratory ID:	05-060-06					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	96	0.40	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	2.6	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-7					
Laboratory ID:	05-060-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	0.35	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	0.56	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-7					
Laboratory ID:	05-060-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	28	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-21					
Laboratory ID:	05-060-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	0.25	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	0.48	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-21					
Laboratory ID:	05-060-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	24	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-20					
Laboratory ID:	05-060-09					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.74	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	5.4	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	4.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	63	0.40	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	8.3	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-20					
Laboratory ID:	05-060-09					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	23	0.40	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	2.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	2.6	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-25					
Laboratory ID:	05-060-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-25					
Laboratory ID:	05-060-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	7.8	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0509W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloromethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromomethane	ND	0.37	EPA 8260C	5-9-16	5-9-16	
Chloroethane	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Iodomethane	ND	2.7	EPA 8260C	5-9-16	5-9-16	
Methylene Chloride	ND	2.0	EPA 8260C	5-9-16	5-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chloroform	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Trichloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromomethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	5-9-16	5-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-9-16	5-9-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0509W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Tetrachloroethene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Bromoform	ND	1.0	EPA 8260C	5-9-16	5-9-16	
Bromobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-9-16	5-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	5-9-16	5-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-9-16	5-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0509W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.87	9.04	10.0	10.0	99	90	62-132	9	20	
Benzene	9.87	9.23	10.0	10.0	99	92	75-121	7	15	
Trichloroethene	9.78	8.82	10.0	10.0	98	88	65-115	10	15	
Toluene	10.9	9.93	10.0	10.0	109	99	78-120	9	15	
Chlorobenzene	10.3	9.64	10.0	10.0	103	96	77-118	7	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>91</i>	<i>93</i>	<i>71-131</i>			
<i>Toluene-d8</i>					<i>102</i>	<i>100</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>102</i>	<i>101</i>	<i>80-125</i>			



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	05-060-03					
Methane	730	50	RSK 175	5-16-16	5-16-16	
Ethane	ND	8.4	RSK 175	5-16-16	5-16-16	U1
Ethene	ND	0.89	RSK 175	5-16-16	5-16-16	U1

Client ID:	UCC MW-26					
Laboratory ID:	05-060-04					
Methane	10000	1000	RSK 175	5-16-16	5-16-16	
Ethane	ND	120	RSK 175	5-16-16	5-16-16	U1
Ethene	ND	7.9	RSK 175	5-16-16	5-16-16	U1

Client ID:	BB-2					
Laboratory ID:	05-060-05					
Methane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethene	ND	0.50	RSK 175	5-16-16	5-16-16	

Client ID:	UCC MW-8					
Laboratory ID:	05-060-06					
Methane	4.1	0.50	RSK 175	5-16-16	5-16-16	
Ethane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethene	ND	0.50	RSK 175	5-16-16	5-16-16	

Client ID:	UCC MW-7					
Laboratory ID:	05-060-07					
Methane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethene	ND	0.50	RSK 175	5-16-16	5-16-16	

Client ID:	UCC MW-21					
Laboratory ID:	05-060-08					
Methane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethene	ND	0.50	RSK 175	5-16-16	5-16-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-20					
Laboratory ID:	05-060-09					
Methane	0.78	0.50	RSK 175	5-16-16	5-16-16	
Ethane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethene	ND	0.50	RSK 175	5-16-16	5-16-16	

Client ID:	UCC MW-25					
Laboratory ID:	05-060-10					
Methane	0.84	0.50	RSK 175	5-16-16	5-16-16	
Ethane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethene	ND	0.50	RSK 175	5-16-16	5-16-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Methane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethane	ND	0.50	RSK 175	5-16-16	5-16-16	
Ethene	ND	0.50	RSK 175	5-16-16	5-16-16	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0516W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.07	3.91	4.42	4.42	N/A	92	88	75-125	4	25	
Ethane	7.73	7.61	8.32	8.32	N/A	93	91	75-125	2	25	
Ethene	7.23	7.27	7.77	7.77	N/A	93	94	75-125	1	25	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	05-060-03					
Nitrate	0.54	0.050	EPA 353.2	5-6-16	5-6-16	
Client ID:	UCC MW-26					
Laboratory ID:	05-060-04					
Nitrate	0.10	0.050	EPA 353.2	5-6-16	5-6-16	
Client ID:	BB-2					
Laboratory ID:	05-060-05					
Nitrate	3.6	0.050	EPA 353.2	5-6-16	5-6-16	
Client ID:	UCC MW-8					
Laboratory ID:	05-060-06					
Nitrate	0.35	0.050	EPA 353.2	5-6-16	5-6-16	
Client ID:	UCC MW-7					
Laboratory ID:	05-060-07					
Nitrate	2.8	0.050	EPA 353.2	5-6-16	5-6-16	
Client ID:	UCC MW-21					
Laboratory ID:	05-060-08					
Nitrate	2.9	0.050	EPA 353.2	5-6-16	5-6-16	
Client ID:	UCC MW-20					
Laboratory ID:	05-060-09					
Nitrate	2.3	0.050	EPA 353.2	5-6-16	5-6-16	
Client ID:	UCC MW-25					
Laboratory ID:	05-060-10					
Nitrate	1.8	0.050	EPA 353.2	5-6-16	5-6-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
Nitrate	ND	0.050	EPA 353.2	5-6-16	5-6-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-059-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	12	

MATRIX SPIKE

Laboratory ID:	05-059-01							
	MS	MS		MS				
Nitrate	2.14	2.00	ND	107	94-125	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0506W1							
	SB	SB		SB				
Nitrate	1.99	2.00	NA	100	96-119	NA	NA	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	05-060-03					
Sulfate	47	25	ASTM D516-07	5-10-16	5-10-16	

Client ID:	UCC MW-26					
Laboratory ID:	05-060-04					
Sulfate	ND	5.0	ASTM D516-07	5-10-16	5-10-16	

Client ID:	BB-2					
Laboratory ID:	05-060-05					
Sulfate	9.3	5.0	ASTM D516-07	5-10-16	5-10-16	

Client ID:	UCC MW-8					
Laboratory ID:	05-060-06					
Sulfate	19	5.0	ASTM D516-07	5-10-16	5-10-16	

Client ID:	UCC MW-7					
Laboratory ID:	05-060-07					
Sulfate	110	25	ASTM D516-07	5-10-16	5-10-16	

Client ID:	UCC MW-21					
Laboratory ID:	05-060-08					
Sulfate	26	10	ASTM D516-07	5-10-16	5-10-16	

Client ID:	UCC MW-20					
Laboratory ID:	05-060-09					
Sulfate	19	10	ASTM D516-07	5-10-16	5-10-16	

Client ID:	UCC MW-25					
Laboratory ID:	05-060-10					
Sulfate	21	5.0	ASTM D516-07	5-10-16	5-10-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W2					
Sulfate	ND	5.0	ASTM D516-07	5-10-16	5-10-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-060-03							
	ORIG	DUP						
Sulfate	47.2	47.7	NA	NA	NA	1	9	

MATRIX SPIKE								
Laboratory ID:	05-060-03							
	MS	MS		MS				
Sulfate	99.2	50.0	47.2	104	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0510W2							
	SB	SB		SB				
Sulfate	10.1	10.0	NA	101	86-116	NA	NA	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-060-03					
Client ID:	UCC MW-27					
Sodium	23000	1000	6010C	5-10-16	5-10-16	
Lab ID:	05-060-04					
Client ID:	UCC MW-26					
Sodium	45000	1000	6010C	5-10-16	5-10-16	
Lab ID:	05-060-05					
Client ID:	BB-2					
Sodium	14000	1000	6010C	5-10-16	5-10-16	
Lab ID:	05-060-06					
Client ID:	UCC MW-8					
Sodium	16000	1000	6010C	5-10-16	5-10-16	
Lab ID:	05-060-07					
Client ID:	UCC MW-7					
Sodium	15000	1000	6010C	5-10-16	5-10-16	
Lab ID:	05-060-08					
Client ID:	UCC MW-21					
Sodium	15000	1000	6010C	5-10-16	5-10-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-060-09					
Client ID:	UCC MW-20					
Sodium	16000	1000	6010C	5-10-16	5-10-16	
Lab ID:	05-060-10					
Client ID:	UCC MW-25					
Sodium	32000	1000	6010C	5-10-16	5-10-16	



Date of Report: May 17, 2016
Samples Submitted: May 5, 2016
Laboratory Reference: 1605-060
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-10-16
Date Analyzed: 5-10-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0510WH2

Analyte	Method	Result	PQL
Sodium	6010C	ND	1000



Date of Report: May 17, 2016
Samples Submitted: May 5, 2016
Laboratory Reference: 1605-060
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 5-10-16

Date Analyzed: 5-10-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 05-044-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	20100	20200	0	1000	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 5-10-16

Date Analyzed: 5-10-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 05-044-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	20000	40300	101	40400	101	0	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	05-060-03					
Total Organic Carbon	8.5	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	UCC MW-26					
Laboratory ID:	05-060-04					
Total Organic Carbon	70	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	BB-2					
Laboratory ID:	05-060-05					
Total Organic Carbon	ND	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	UCC MW-8					
Laboratory ID:	05-060-06					
Total Organic Carbon	31	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	UCC MW-7					
Laboratory ID:	05-060-07					
Total Organic Carbon	9.5	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	UCC MW-21					
Laboratory ID:	05-060-08					
Total Organic Carbon	3.3	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	UCC MW-20					
Laboratory ID:	05-060-09					
Total Organic Carbon	2.1	1.0	SM 5310B	5-11-16	5-11-16	
Client ID:	UCC MW-25					
Laboratory ID:	05-060-10					
Total Organic Carbon	2.3	1.0	SM 5310B	5-11-16	5-11-16	



Date of Report: May 17, 2016
 Samples Submitted: May 5, 2016
 Laboratory Reference: 1605-060
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-11-16	5-11-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-044-04							
	ORIG	DUP						
Total Organic Carbon	66.7	65.8	NA	NA	NA	NA	1	15

MATRIX SPIKE

Laboratory ID:	05-044-04							
	MS	MS		MS				
Total Organic Carbon	77.4		10.0	66.7	107	85-119	NA	NA

SPIKE BLANK

Laboratory ID:	SB0511W1							
	SB	SB		SB				
Total Organic Carbon	11.3		10.0	NA	113	86-115	NA	NA





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-naphthalene) 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





Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

- Same Day
 1 Day
 2 Days
 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)

(other)

Laboratory Number: **05-060**

Company: **HWA Geoservices**

Project Number: **2007-098-22**

Project Name: **Ultra Custom Cleaners**

Project Manager: **Annie Supar**

Sampled by: **Austin York**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	WW-1	5-4-16	1426	water
2	DUP-0504	5-4-16		
3	UCCMW-27	5-5-16	0430	
4	UCCMW-26		1007	
5	BB-2		1058	
6	UCCMW-8		1129	
7	UCCMW-7		1209	
8	UCCMW-21		1345	
9	UCCMW-20		1424	
10	UCCMW-25	5-5-16	1507	Waters

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx	
Volatiles 8260C	
Halogenated Volatiles 8260C	X
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
Methane/Ethane/Propane	X
Nitrate/Sulfate	X
Total Nat	X
TOC	X
% Moisture	

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		HWA Geoservices	5-5-16	1615	
Received		ALPHA-SPEEDY	5/5/16	16:15	
Relinquished		ALPHA-SPEEDY	5/5/16	16:50	
Received		ALPHA-SPEEDY	5/5/16	16:50	
Relinquished		ALPHA-SPEEDY	5/5/16	16:50	
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Relinquished		ALPHA-SPEEDY	5/5/16		



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June 5, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-998
Laboratory Reference No. 1405-215

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 28, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 5, 2014
Samples Submitted: May 28, 2014
Laboratory Reference: 1405-215
Project: 2007-098-998

Case Narrative

Samples were collected on May 27 and 28, 2014 and received by the laboratory on May 28, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BPMW-6					
Laboratory ID:	05-215-01					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 94 71-112

Client ID:	BPMW-2					
Laboratory ID:	05-215-02					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 93 71-112

Client ID:	BC-11					
Laboratory ID:	05-215-03					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 93 71-112

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BPMW-1					
Laboratory ID:	05-215-04					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 93 71-112

Client ID:	BPMW-4					
Laboratory ID:	05-215-05					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 92 71-112

Client ID:	BPMW-5					
Laboratory ID:	05-215-06					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 92 71-112

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	05-215-07					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>95</i>	<i>71-112</i>				

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0529W1					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-209-09							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				96	94	71-112		

MATRIX SPIKES

Laboratory ID:	05-209-09									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	54.0	52.5	50.0	50.0	ND	108	105	78-120	3	12
Toluene	56.0	52.6	50.0	50.0	ND	112	105	80-121	6	12
Ethyl Benzene	55.5	51.6	50.0	50.0	ND	111	103	81-120	7	13
m,p-Xylene	57.0	51.3	50.0	50.0	ND	114	103	81-119	11	13
o-Xylene	56.3	49.8	50.0	50.0	ND	113	100	79-117	12	13
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						98	103	71-112		

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BPMW-6					
Laboratory ID:	05-215-01					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				
Client ID:	BPMW-2					
Laboratory ID:	05-215-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				
Client ID:	BC-11					
Laboratory ID:	05-215-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				
Client ID:	BPMW-1					
Laboratory ID:	05-215-04					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				
Client ID:	BPMW-4					
Laboratory ID:	05-215-05					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
Client ID:	BPMW-5					
Laboratory ID:	05-215-06					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-215-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				88	91	50-150		

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

TOTAL ARSENIC
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-215-01					
Client ID:	BPMW-6					
Arsenic	13	3.3	200.8	5-29-14	5-29-14	
Lab ID:	05-215-02					
Client ID:	BPMW-2					
Arsenic	ND	3.3	200.8	5-29-14	5-29-14	
Lab ID:	05-215-03					
Client ID:	BC-11					
Arsenic	6.2	3.3	200.8	5-29-14	5-29-14	
Lab ID:	05-215-04					
Client ID:	BPMW-1					
Arsenic	20	3.3	200.8	5-29-14	5-29-14	
Lab ID:	05-215-05					
Client ID:	BPMW-4					
Arsenic	ND	3.3	200.8	5-29-14	5-29-14	
Lab ID:	05-215-06					
Client ID:	BPMW-5					
Arsenic	4.3	3.3	200.8	5-29-14	5-29-14	

Date of Report: June 5, 2014
Samples Submitted: May 28, 2014
Laboratory Reference: 1405-215
Project: 2007-098-998

TOTAL ARSENIC
EPA 200.8
METHOD BLANK QUALITY CONTROL

Date Extracted: 5-29-14
Date Analyzed: 5-29-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0529WM1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.3

Date of Report: June 5, 2014
Samples Submitted: May 28, 2014
Laboratory Reference: 1405-215
Project: 2007-098-998

**TOTAL ARSENIC
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Extracted: 5-29-14

Date Analyzed: 5-29-14

Matrix: Water

Units: ug/L (ppb)

Lab ID: 05-215-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	6.18	5.88	5	3.3	

Date of Report: June 5, 2014
Samples Submitted: May 28, 2014
Laboratory Reference: 1405-215
Project: 2007-098-998

TOTAL ARSENIC
EPA 200.8
MS/MSD QUALITY CONTROL

Date Extracted: 5-29-14

Date Analyzed: 5-29-14

Matrix: Water

Units: ug/L (ppb)

Lab ID: 05-215-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	110	125	108	128	111	2	

Date of Report: June 5, 2014
 Samples Submitted: May 28, 2014
 Laboratory Reference: 1405-215
 Project: 2007-098-998

**DISSOLVED ARSENIC
 EPA 200.8**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-215-01					
Client ID:	BPMW-6					
Arsenic	13	3.0	200.8		5-29-14	
Lab ID:	05-215-02					
Client ID:	BPMW-2					
Arsenic	ND	3.0	200.8		5-29-14	
Lab ID:	05-215-03					
Client ID:	BC-11					
Arsenic	5.1	3.0	200.8		5-29-14	
Lab ID:	05-215-04					
Client ID:	BPMW-1					
Arsenic	19	3.0	200.8		5-29-14	
Lab ID:	05-215-05					
Client ID:	BPMW-4					
Arsenic	ND	3.0	200.8		5-29-14	
Lab ID:	05-215-06					
Client ID:	BPMW-5					
Arsenic	ND	3.0	200.8		5-29-14	

Date of Report: June 5, 2014
Samples Submitted: May 28, 2014
Laboratory Reference: 1405-215
Project: 2007-098-998

**DISSOLVED ARSENIC
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 5-29-14
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0529D1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0

Date of Report: June 5, 2014
Samples Submitted: May 28, 2014
Laboratory Reference: 1405-215
Project: 2007-098-998

**DISSOLVED ARSENIC
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Analyzed: 5-29-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-209-09

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.0	

Date of Report: June 5, 2014
Samples Submitted: May 28, 2014
Laboratory Reference: 1405-215
Project: 2007-098-998

**DISSOLVED ARSENIC
EPA 200.8
MS/MSD QUALITY CONTROL**

Date Analyzed: 5-29-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-209-09

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	202	101	206	103	2	



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-naphthalene) 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



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

June 9, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1405-232

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 29, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 9, 2014
Samples Submitted: May 29, 2014
Laboratory Reference: 1405-232
Project: 2007-098-2003

Case Narrative

Samples were collected on May 28 and 29, 2014 and received by the laboratory on May 29, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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/BTEX Analysis

The presence of Tetrachloroethene was impacting the gasoline result for sample UCCMW-8. Per the client's request, the Tetrachloroethene peak was subtracted from the gasoline range result in the sample referenced above.

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.

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0529W2					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-215-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				94	94	71-112		

MATRIX SPIKES

Laboratory ID:	05-209-09									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	54.0	52.5	50.0	50.0	ND	108	105	78-120	3	12
Toluene	56.0	52.6	50.0	50.0	ND	112	105	80-121	6	12
Ethyl Benzene	55.5	51.6	50.0	50.0	ND	111	103	81-120	7	13
m,p-Xylene	57.0	51.3	50.0	50.0	ND	114	103	81-119	11	13
o-Xylene	56.3	49.8	50.0	50.0	ND	113	100	79-117	12	13
<i>Surrogate:</i>										
<i>Fluorobenzene</i>					98	103	71-112			

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				91	90	50-150		

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	0.30	0.20	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	0.32	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	1.0	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	5.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	6-3-14	6-3-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	110	1.0	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	1.3	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0603W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0603W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	05-232-01										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	9.19	9.28	10.0	10.0	ND	92	93	57-133	1	15	
Benzene	9.13	9.38	10.0	10.0	ND	91	94	78-117	3	15	
Trichloroethene	9.03	9.32	10.0	10.0	ND	90	93	77-120	3	15	
Toluene	9.25	9.74	10.0	10.0	ND	93	97	80-115	5	15	
Chlorobenzene	9.20	9.41	10.0	10.0	ND	92	94	80-122	2	15	
<i>Surrogate:</i>											
Dibromofluoromethane						95	100	62-122			
Toluene-d8						98	100	70-120			
4-Bromofluorobenzene						96	99	71-120			

Date of Report: June 9, 2014
Samples Submitted: May 29, 2014
Laboratory Reference: 1405-232
Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Nitrate	1.6	0.050	EPA 353.2	6-2-14	6-2-14	

Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Nitrate	1.0	0.050	EPA 353.2	6-2-14	6-2-14	

Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Nitrate	2.3	0.050	EPA 353.2	6-2-14	6-2-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Nitrate	ND	0.050	EPA 353.2	6-2-14	6-2-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Nitrate	1.61	1.66	NA	NA	NA	3	16	

MATRIX SPIKE								
Laboratory ID:	05-232-01							
	MS	MS		MS				
Nitrate	3.79	2.00	1.61	109	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Nitrate	2.12	2.00	NA	106	86-114	NA	NA	

Date of Report: June 9, 2014
Samples Submitted: May 29, 2014
Laboratory Reference: 1405-232
Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Sulfate	16	10	ASTM D516-07	6-2-14	6-2-14	

Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Sulfate	19	5.0	ASTM D516-07	6-2-14	6-2-14	

Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Sulfate	18	5.0	ASTM D516-07	6-2-14	6-2-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Sulfate	ND	5.0	ASTM D516-07	6-2-14	6-2-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Sulfate	16.1	15.7	NA	NA	NA	3	10	

MATRIX SPIKE								
Laboratory ID:	05-232-01							
	MS	MS		MS				
Sulfate	36.7	20.0	16.1	103	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Sulfate	9.94	10.0	NA	99	91-114	NA	NA	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Total Organic Carbon	ND	1.0	SM 5310B	6-5-14	6-5-14	
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Total Organic Carbon	2.0	1.0	SM 5310B	6-5-14	6-5-14	
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Total Organic Carbon	ND	1.0	SM 5310B	6-5-14	6-5-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0605W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-5-14	6-5-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE

Laboratory ID:	05-232-01							
	MS	MS		MS				
Total Organic Carbon	10.6	10.0	ND	106	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0605W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	91-119	NA	NA	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Methane	0.66	0.50	RSK 175	6-5-14	6-5-14	
Ethane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethene	ND	0.50	RSK 175	6-5-14	6-5-14	

Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Methane	16	1.0	RSK 175	6-5-14	6-5-14	
Ethane	ND	1.0	RSK 175	6-5-14	6-5-14	
Ethene	ND	1.0	RSK 175	6-5-14	6-5-14	

Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Methane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethene	ND	0.50	RSK 175	6-5-14	6-5-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0605W1					
Methane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethene	ND	0.50	RSK 175	6-5-14	6-5-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0605W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	3.78	3.85	4.42	4.42	N/A	86	87	75-125	2	25	
Ethane	6.20	6.32	8.32	8.32	N/A	75	76	75-125	2	25	
Ethene	6.49	6.53	7.77	7.77	N/A	84	84	75-125	1	25	



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-naphthalene) 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 - The Tetrachloroethene peak was subtracted from the gasoline result.

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



MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

05-232

Company: **HWA GeoScience &**
 Project Number: **2007-098-2003**
 Project Name: **Ultra custom**
~~Project Name: core down analysis~~
 Project Manager: **Arnie Sagar**
 Sampled by: **Norm Nielsen**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	HZ MW-16	5/29/14	14:59	W
2	UCC MW-9	5/28/14	17:06	↓
3	UCC MW-8	5/29/14	7:12	↓

Number of Containers	Laboratory Number:	
	05-232	
NWTPH-HCID		
NWTPH-Gx/BTEX	X	
NWTPH-Gx	X	
NWTPH-Dx	X	
Volatiles 8260C		
Halogenated Volatiles 8260C	X	
Semivolatiles 8270D/SIM (with low-level PAHs)		
PAHs 8270D/SIM (low-level)		
PCBs 8082A		
Organochlorine Pesticides 8081B		
Organophosphorus Pesticides 8270D/SIM		
Chlorinated Acid Herbicides 8151A		
Total RCRA Metals		
Total MTCA Metals		
TCLP Metals		
HEM (oil and grease) 1664A		
Nitrate	X	
Sulfate	X	
Total Organic Carbon	X	
Methane/Ethane/Ethylene	X	
% Moisture		

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	HWA GeoScience &	5/29/14	12:55	
<i>[Signature]</i>	Speedy	5/29/14	1:24	
<i>[Signature]</i>	Speedy	5/29/14	1:24	

Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date

Reviewed/Date

Chromatograms with final report



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

June 9, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1405-232

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on May 29, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

June 11, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1406-040

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on June 5, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 11, 2014
Samples Submitted: June 5, 2014
Laboratory Reference: 1406-040
Project: 2007-098-2003

Case Narrative

Samples were collected on June 2, 3, 4, and 5, 2014 and received by the laboratory on June 5, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11D					
Laboratory ID:	06-040-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11D					
Laboratory ID:	06-040-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11S					
Laboratory ID:	06-040-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-11S					
Laboratory ID:	06-040-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	0.22	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	06-040-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	06-040-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	0.26	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	06-040-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	1.0	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	06-040-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	26	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-22					
Laboratory ID:	06-040-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-22					
Laboratory ID:	06-040-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	0.81	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-24					
Laboratory ID:	06-040-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-24					
Laboratory ID:	06-040-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	2.2	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	06-040-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	0.44	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	06-040-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	9.3	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	06-040-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	0.34	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	06-040-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	16	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	06-040-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	6.1	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	0.44	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	6.7	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	06-040-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	48	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	06-040-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	06-040-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	1.6	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP 01					
Laboratory ID:	06-040-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP 01					
Laboratory ID:	06-040-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	1.7	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	06-040-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12S					
Laboratory ID:	06-040-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	0.31	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12D					
Laboratory ID:	06-040-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-12D					
Laboratory ID:	06-040-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	06-040-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-3					
Laboratory ID:	06-040-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-13S					
Laboratory ID:	06-040-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-13S					
Laboratory ID:	06-040-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	1.6	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-13D					
Laboratory ID:	06-040-16					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-13D					
Laboratory ID:	06-040-16					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	0.24	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14S					
Laboratory ID:	06-040-17					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14S					
Laboratory ID:	06-040-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	6.5	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	06-040-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-14D					
Laboratory ID:	06-040-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	06-040-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	0.22	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	0.31	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	06-040-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	14	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	06-040-20					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	06-040-20					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0609W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloromethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroethane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Iodomethane	ND	1.3	EPA 8260C	6-9-14	6-9-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-9-14	6-9-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chloroform	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Trichloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromomethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chloroethyl Vinyl Ether	ND	4.9	EPA 8260C	6-9-14	6-9-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-9-14	6-9-14	

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0609W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Bromoform	ND	1.0	EPA 8260C	6-9-14	6-9-14	
Bromobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-9-14	6-9-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-9-14	6-9-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-9-14	6-9-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 5, 2014
 Laboratory Reference: 1406-040
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0609W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.61	8.61	10.0	10.0	86	86	63-142	0	17	
Benzene	8.79	8.74	10.0	10.0	88	87	78-125	1	15	
Trichloroethene	9.08	9.32	10.0	10.0	91	93	80-125	3	15	
Toluene	9.13	9.31	10.0	10.0	91	93	80-125	2	15	
Chlorobenzene	9.46	9.53	10.0	10.0	95	95	80-140	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>103</i>	<i>62-122</i>			
<i>Toluene-d8</i>					<i>97</i>	<i>99</i>	<i>70-120</i>			
<i>4-Bromofluorobenzene</i>					<i>96</i>	<i>102</i>	<i>71-120</i>			



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-naphthalene) 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



MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

06-040

Company: HudGeo Sciences
 Project Number: 2007-098-2003
 Project Name: Ultra TA Post Injection
 Project Manager: Amie Sager
 Sampled by: Norm Nielsen

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 _____ (other)

Laboratory Request		Laboratory Number:	
Date Sampled	Time Sampled	Matrix	Number of Containers
6/2/14	17:21	W	3
6/2/14	13:59		
6/2/14	15:15		
6/3/14	7:43		
6/3/14	9:43		
6/3/14	10:32		
6/3/14	11:29		
6/3/14	12:37		
6/3/14	13:23		
6/3/14	14:14		

Parameter	1	2	3	4	5	6	7	8	9	10
NWTPH-HCID										
NWTPH-Gx/BTEX										
NWTPH-Gx										
NWTPH-Dx										
Volatiles 8260C										
Halogenated Volatiles 8260C	X	X	X	X	X	X	X	X	X	X
Semivolatiles 8270D/SIM (with low-level PAHs)										
PAHs 8270D/SIM (low-level)										
PCBs 8082A										
Organochlorine Pesticides 8081B										
Organophosphorus Pesticides 8270D/SIM										
Chlorinated Acid Herbicides 8151A										
Total RCRA Metals										
Total MTCA Metals										
TCLP Metals										
HEM (oil and grease) 1664A										
% Moisture										

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Company	Date	Time	Comments/Special Instructions
1	OC MW-11D	6/2/14	17:21	W	3	HudGeo Sciences	6/5/14	9:25A	
2	OC MW-11S	6/2/14	13:59						
3	MW-2	6/2/14	15:15						
4	OC MW-7	6/3/14	7:43						
5	OC MW-22	6/3/14	9:43						
6	OC MW-24	6/3/14	10:32						
7	OC MW-25	6/3/14	11:29						
8	OC MW-21	6/3/14	12:37						
9	OC MW-20	6/3/14	13:23						
10	OC MW-20 MW-3R	6/3/14	14:14						
	Relinquished	Signature							
	Received								
	Relinquished								
	Received								
	Relinquished								
	Received								
	Relinquished								
	Reviewed/Date								



HWA GEOSCIENCES INC.

21312 30th Drive SE, Suite 110, Bothell, Washington 98021-7010
Tel 425.774.0106 Fax 425.774.2714 www.hwageo.com

Chain of Custody and Laboratory Analysis Request

DATE: 6/4/14
PAGE: 2 of 2

PROJECT NAME: Altra IA Post Injection # 2007-098-2003
SAMPLERS NAME: Norm Nielsen PHONE: 425-0592
SAMPLERS SIGNATURE: Norm Nielsen DATE: 6/4/14
HWA CONTACT: Arnie Sagar PHONE: 425-774-0106

ANALYSIS REQUESTED

06-040

TURNAROUND TIME

- DAYS
 STANDARD

EDD
REMARKS

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE
DUP 01	6/3/14	12:00	W	11	3
OCMUR-12S	6/3/14	15:48		12	
OCMUR-12D	6/3/14	16:28		13	
BB-3	6/4/14	7:53		14	
OCMUR-13S	6/4/14	9:17		15	
OCMUR-13D	6/4/14	10:15		16	
OCMUR-14S	6/4/14	11:26		17	
OCMUR-14D	6/4/14	12:50		18	
OCMUR-5	6/5/14	7:24		19	
Trip Blank	6/5/14	8:10		20	

COMPANY	DATE	TIME	REMARKS
HWA Geosciences	6/5/14	9:25am	
STEENBY	6/5/14	12:09 PM	
OSI	6/5/14	1:00 PM	

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
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Date of Report: June 9, 2014
Samples Submitted: May 29, 2014
Laboratory Reference: 1405-232
Project: 2007-098-2003

Case Narrative

Samples were collected on May 28 and 29, 2014 and received by the laboratory on May 29, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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/BTEX Analysis

The presence of Tetrachloroethene was impacting the gasoline result for sample UCCMW-8. Per the client's request, the Tetrachloroethene peak was subtracted from the gasoline range result in the sample referenced above.

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.

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0529W2					
Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Toluene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Ethyl Benzene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
m,p-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
o-Xylene	ND	1.0	EPA 8021B	5-29-14	5-29-14	
Gasoline	ND	100	NWTPH-Gx	5-29-14	5-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-215-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				94	94	71-112		

MATRIX SPIKES

Laboratory ID:	05-209-09									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	54.0	52.5	50.0	50.0	ND	108	105	78-120	3	12
Toluene	56.0	52.6	50.0	50.0	ND	112	105	80-121	6	12
Ethyl Benzene	55.5	51.6	50.0	50.0	ND	111	103	81-120	7	13
m,p-Xylene	57.0	51.3	50.0	50.0	ND	114	103	81-119	11	13
o-Xylene	56.3	49.8	50.0	50.0	ND	113	100	79-117	12	13
<i>Surrogate:</i>										
<i>Fluorobenzene</i>					98	103	71-112			

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-2-14	6-2-14	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-2-14	6-2-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				91	90	50-150		

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	0.30	0.20	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	0.32	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	1.0	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: June 9, 2014
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 Laboratory Reference: 1405-232
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	5.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	6-3-14	6-3-14	

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 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	110	1.0	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	5.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	1.3	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0603W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloromethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Iodomethane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chloroform	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Trichloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromomethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-3-14	6-3-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-3-14	6-3-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0603W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Bromoform	ND	1.0	EPA 8260C	6-3-14	6-3-14	
Bromobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	6-3-14	6-3-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-3-14	6-3-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-3-14	6-3-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	05-232-01										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	9.19	9.28	10.0	10.0	ND	92	93	57-133	1	15	
Benzene	9.13	9.38	10.0	10.0	ND	91	94	78-117	3	15	
Trichloroethene	9.03	9.32	10.0	10.0	ND	90	93	77-120	3	15	
Toluene	9.25	9.74	10.0	10.0	ND	93	97	80-115	5	15	
Chlorobenzene	9.20	9.41	10.0	10.0	ND	92	94	80-122	2	15	
<i>Surrogate:</i>											
Dibromofluoromethane						95	100	62-122			
Toluene-d8						98	100	70-120			
4-Bromofluorobenzene						96	99	71-120			

Date of Report: June 9, 2014
Samples Submitted: May 29, 2014
Laboratory Reference: 1405-232
Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Nitrate	1.6	0.050	EPA 353.2	6-2-14	6-2-14	

Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Nitrate	1.0	0.050	EPA 353.2	6-2-14	6-2-14	

Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Nitrate	2.3	0.050	EPA 353.2	6-2-14	6-2-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Nitrate	ND	0.050	EPA 353.2	6-2-14	6-2-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Nitrate	1.61	1.66	NA	NA	NA	3	16	

MATRIX SPIKE								
Laboratory ID:	05-232-01							
	MS	MS		MS				
Nitrate	3.79	2.00	1.61	109	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Nitrate	2.12	2.00	NA	106	86-114	NA	NA	

Date of Report: June 9, 2014
Samples Submitted: May 29, 2014
Laboratory Reference: 1405-232
Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Sulfate	16	10	ASTM D516-07	6-2-14	6-2-14	

Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Sulfate	19	5.0	ASTM D516-07	6-2-14	6-2-14	

Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Sulfate	18	5.0	ASTM D516-07	6-2-14	6-2-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Sulfate	ND	5.0	ASTM D516-07	6-2-14	6-2-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Sulfate	16.1	15.7	NA	NA	NA	3	10	

MATRIX SPIKE								
Laboratory ID:	05-232-01							
	MS	MS		MS				
Sulfate	36.7	20.0	16.1	103	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Sulfate	9.94	10.0	NA	99	91-114	NA	NA	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Total Organic Carbon	ND	1.0	SM 5310B	6-5-14	6-5-14	
Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Total Organic Carbon	2.0	1.0	SM 5310B	6-5-14	6-5-14	
Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Total Organic Carbon	ND	1.0	SM 5310B	6-5-14	6-5-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0605W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-5-14	6-5-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-232-01							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE

Laboratory ID:	05-232-01							
	MS	MS		MS				
Total Organic Carbon	10.6	10.0	ND	106	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0605W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	91-119	NA	NA	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZMW-16					
Laboratory ID:	05-232-01					
Methane	0.66	0.50	RSK 175	6-5-14	6-5-14	
Ethane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethene	ND	0.50	RSK 175	6-5-14	6-5-14	

Client ID:	UCCMW-9					
Laboratory ID:	05-232-02					
Methane	16	1.0	RSK 175	6-5-14	6-5-14	
Ethane	ND	1.0	RSK 175	6-5-14	6-5-14	
Ethene	ND	1.0	RSK 175	6-5-14	6-5-14	

Client ID:	UCCMW-8					
Laboratory ID:	05-232-03					
Methane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethene	ND	0.50	RSK 175	6-5-14	6-5-14	

Date of Report: June 9, 2014
 Samples Submitted: May 29, 2014
 Laboratory Reference: 1405-232
 Project: 2007-098-2003

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0605W1					
Methane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethane	ND	0.50	RSK 175	6-5-14	6-5-14	
Ethene	ND	0.50	RSK 175	6-5-14	6-5-14	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0605W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	3.78	3.85	4.42	4.42	N/A	86	87	75-125	2	25	
Ethane	6.20	6.32	8.32	8.32	N/A	75	76	75-125	2	25	
Ethene	6.49	6.53	7.77	7.77	N/A	84	84	75-125	1	25	



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-naphthalene) 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 - The Tetrachloroethene peak was subtracted from the gasoline result.

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



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

June 11, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1406-062

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on June 6, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 11, 2014
Samples Submitted: June 6, 2014
Laboratory Reference: 1406-062
Project: 2007-098-2003

Case Narrative

Samples were collected on June 5 and 6, 2014 and received by the laboratory on June 6, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-15					
Laboratory ID:	06-062-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-15					
Laboratory ID:	06-062-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	6.1	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	06-062-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	0.26	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	06-062-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	06-062-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	06-062-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	0.36	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	06-062-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	5.4	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	2.9	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	06-062-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	15	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	06-062-05					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	10	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	2.6	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	10	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	14	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	10	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	130	2.0	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	41	2.0	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	150	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	06-062-05					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	260	2.0	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	10	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	06-062-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	06-062-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	0.33	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 6-5-14					
Laboratory ID:	06-062-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 6-5-14					
Laboratory ID:	06-062-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	2.1	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	06-062-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-6					
Laboratory ID:	06-062-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	4.0	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-23					
Laboratory ID:	06-062-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-23					
Laboratory ID:	06-062-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	2.1	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	06-062-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	06-062-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0610W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloromethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromomethane	ND	0.26	EPA 8260C	6-10-14	6-10-14	
Chloroethane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Iodomethane	ND	1.4	EPA 8260C	6-10-14	6-10-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-10-14	6-10-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chloroform	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Trichloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromomethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chloroethyl Vinyl Ether	ND	15	EPA 8260C	6-10-14	6-10-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-10-14	6-10-14	

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0610W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Bromoform	ND	1.0	EPA 8260C	6-10-14	6-10-14	
Bromobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-10-14	6-10-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-10-14	6-10-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-10-14	6-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: June 11, 2014
 Samples Submitted: June 6, 2014
 Laboratory Reference: 1406-062
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0610W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.53	8.46	10.0	10.0	85	85	63-142	1	17	
Benzene	8.36	8.22	10.0	10.0	84	82	78-125	2	15	
Trichloroethene	8.93	8.79	10.0	10.0	89	88	80-125	2	15	
Toluene	9.02	8.87	10.0	10.0	90	89	80-125	2	15	
Chlorobenzene	9.33	9.18	10.0	10.0	93	92	80-140	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	104	62-122			
<i>Toluene-d8</i>					95	99	70-120			
<i>4-Bromofluorobenzene</i>					100	103	71-120			



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-naphthalene) 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



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

June 24, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1406-083

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on June 10, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right from the end of the signature.

David Baumeister
Project Manager

Enclosures

Date of Report: June 24, 2014
Samples Submitted: June 10, 2014
Laboratory Reference: 1406-083
Project: 2007-098-2003

Case Narrative

Samples were collected on June 10, 2014 and received by the laboratory on June 10, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	06-083-01					
Dichlorodifluoromethane	ND	0.54	EPA 8260C	6-12-14	6-12-14	
Chloromethane	ND	2.0	EPA 8260C	6-12-14	6-12-14	
Vinyl Chloride	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Bromomethane	ND	1.1	EPA 8260C	6-12-14	6-12-14	
Chloroethane	ND	2.0	EPA 8260C	6-12-14	6-12-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloroethene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Iodomethane	ND	4.8	EPA 8260C	6-12-14	6-12-14	
Methylene Chloride	ND	2.0	EPA 8260C	6-12-14	6-12-14	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloroethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Bromochloromethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Chloroform	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,2-Dichloroethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Trichloroethene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Dibromomethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Bromodichloromethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	6-12-14	6-12-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	6-12-14	6-12-14	

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	06-083-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Tetrachloroethene	79	0.40	EPA 8260C	6-12-14	6-12-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Dibromochloromethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Chlorobenzene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Bromoform	ND	2.0	EPA 8260C	6-12-14	6-12-14	
Bromobenzene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	6-12-14	6-12-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	6-12-14	6-12-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	6-12-14	6-12-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>71-120</i>				

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI-3					
Laboratory ID:	06-083-02					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	6-12-14	6-12-14	
Chloromethane	ND	1.0	EPA 8260C	6-12-14	6-12-14	
Vinyl Chloride	0.26	0.20	EPA 8260C	6-12-14	6-12-14	
Bromomethane	ND	0.54	EPA 8260C	6-12-14	6-12-14	
Chloroethane	ND	1.0	EPA 8260C	6-12-14	6-12-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Iodomethane	ND	2.4	EPA 8260C	6-12-14	6-12-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-12-14	6-12-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
(cis) 1,2-Dichloroethene	1.7	0.20	EPA 8260C	6-12-14	6-12-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Chloroform	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Trichloroethene	0.43	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Dibromomethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-12-14	6-12-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-12-14	6-12-14	

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI-3					
Laboratory ID:	06-083-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Tetrachloroethene	4.5	0.20	EPA 8260C	6-12-14	6-12-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Bromoform	ND	1.0	EPA 8260C	6-12-14	6-12-14	
Bromobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-12-14	6-12-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>71-120</i>				

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0612W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	6-12-14	6-12-14	
Chloromethane	ND	1.0	EPA 8260C	6-12-14	6-12-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Bromomethane	ND	0.54	EPA 8260C	6-12-14	6-12-14	
Chloroethane	ND	1.0	EPA 8260C	6-12-14	6-12-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Iodomethane	ND	2.4	EPA 8260C	6-12-14	6-12-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-12-14	6-12-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Chloroform	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Trichloroethene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Dibromomethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-12-14	6-12-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-12-14	6-12-14	

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0612W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Bromoform	ND	1.0	EPA 8260C	6-12-14	6-12-14	
Bromobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-12-14	6-12-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-12-14	6-12-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-12-14	6-12-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-120</i>				

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0612W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.00	8.05	10.0	10.0	80	81	63-142	1	17	
Benzene	9.43	9.52	10.0	10.0	94	95	78-125	1	15	
Trichloroethene	8.80	8.72	10.0	10.0	88	87	80-125	1	15	
Toluene	10.0	10.0	10.0	10.0	100	100	80-125	0	15	
Chlorobenzene	9.39	9.69	10.0	10.0	94	97	80-140	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>110</i>	<i>109</i>	<i>62-122</i>			
<i>Toluene-d8</i>					<i>108</i>	<i>110</i>	<i>70-120</i>			
<i>4-Bromofluorobenzene</i>					<i>106</i>	<i>108</i>	<i>71-120</i>			

Date of Report: June 24, 2014
Samples Submitted: June 10, 2014
Laboratory Reference: 1406-083
Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	06-083-01					
Nitrate	3.2	0.10	EPA 353.2	6-16-14	6-16-14	

Client ID:	BI-3					
Laboratory ID:	06-083-02					
Nitrate	1.3	0.050	EPA 353.2	6-16-14	6-16-14	

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616W1					
Nitrate	ND	0.050	EPA 353.2	6-16-14	6-16-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-083-01							
	ORIG	DUP						
Nitrate	3.20	3.20	NA	NA	NA	0	16	

MATRIX SPIKE								
Laboratory ID:	06-083-01							
	MS	MS		MS				
Nitrate	7.84	4.00	3.20	116	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0616W1							
	SB	SB		SB				
Nitrate	2.22	2.00	NA	111	86-114	NA	NA	

Date of Report: June 24, 2014
Samples Submitted: June 10, 2014
Laboratory Reference: 1406-083
Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	06-083-01					
Sulfate	9.4	5.0	ASTM D516-07	6-17-14	6-17-14	

Client ID:	BI-3					
Laboratory ID:	06-083-02					
Sulfate	10	10	ASTM D516-07	6-17-14	6-17-14	

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Sulfate	ND	5.0	ASTM D516-07	6-17-14	6-17-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-083-01							
	ORIG	DUP						
Sulfate	9.38	9.65	NA	NA	NA	3	10	

MATRIX SPIKE								
Laboratory ID:	06-083-01							
	MS	MS		MS				
Sulfate	20.1	10.0	9.38	107	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0617W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	91-114	NA	NA	

Date of Report: June 24, 2014
Samples Submitted: June 10, 2014
Laboratory Reference: 1406-083
Project: 2007-098-2003

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	06-083-01					
Total Organic Carbon	ND	1.0	SM 5310B	6-11-14	6-11-14	
Client ID:	BI-3					
Laboratory ID:	06-083-02					
Total Organic Carbon	1.8	1.0	SM 5310B	6-11-14	6-11-14	

Date of Report: June 24, 2014
 Samples Submitted: June 10, 2014
 Laboratory Reference: 1406-083
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0611W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-11-14	6-11-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-038-01							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE

Laboratory ID:	06-038-01							
	MS	MS		MS				
Total Organic Carbon	11.1	10.0	ND	111	70-124	NA	NA	

SPIKE BLANK

Laboratory ID:	SB0611W1							
	SB	SB		SB				
Total Organic Carbon	9.94	10.0	NA	99	91-119	NA	NA	



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-naphthalene) 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



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 June 2014

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 2007-098-2003; Lab ID 06-083
ARI Job No: YO24

Dear David:

Please find enclosed the chain-of-custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted two water samples on June 17, 2014. The samples were analyzed for MEE as requested.

These analyses proceeded without incident of note.

An electronic copy of these reports will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Mark D. Harris".

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file YO24

MDH/mdh



Cooler Receipt Form

ARI Client: ONSHU

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS (Courier) Hand Delivered Other: Speedy

Assigned ARI Job No: Y024

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)
Time: 1114 28 _____

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90827952

Cooler Accepted by: AV Date: 6/17/14 Time: 1114

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: (NA) _____

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 6/17/14 Time: 1142

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

			Small → "sm" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: YO24
Client: OnSite Environmental, Inc.
Project Event: 2007-098-2003
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. BB-2	YO24A	14-11799	Water	06/10/14 07:57	06/17/14 11:14
2. BI-3	YO24B	14-11800	Water	06/10/14 09:16	06/17/14 11:14



Data Reporting Qualifiers

Effective 12/31/13

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.



**Analytical Resources,
Incorporated**
Analytical Chemists and
Consultants

- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

**ORGANICS ANALYSIS DATA SHEET
METHANE ETHANE ETHENE**

Modified RSK 175
Page 1 of 1
Matrix: Water

QC Report No: Y024-OnSite Environmental, Inc.
Project: 2007-098-2003
NA
Date Received: 06/17/14

Data Release Authorized: *CB*
Reported: 06/19/14

ARI ID	Sample ID	Analysis Date	DL	Analyte	RL	Result
YO24A 14-11799	BB-2	06/18/14	1.0	Methane	0.7	< 0.7 U
				Ethane	1.2	< 1.2 U
				Ethene	1.1	< 1.1 U
YO24B 14-11800	BI-3	06/18/14	1.0	Methane	0.7	128
				Ethane	1.2	< 1.2 U
				Ethene	1.1	< 1.1 U
061814MB	Method Blank	06/18/14	1.0	Methane	0.7	< 0.7 U
061814MB	Method Blank	06/18/14	1.0	Ethane	1.2	< 1.2 U
061814MB	Method Blank	06/18/14	1.0	Ethene	1.1	< 1.1 U

Reported in ug/L (ppb)

**ORGANICS ANALYSIS DATA SHEET
METHANE ETHANE ETHENE**

Modified RSK 175
Page 1 of 1
Matrix: Water

QC Report No: Y024-OnSite Environmental, Inc.
Project: 2007-098-2003
NA
Date Received: 06/17/14

Data Release Authorized: 
Reported: 06/19/14

ARI ID	Analysis Date	Analyte	Spike	Result	Recovery	RPD
061814LCS	06/18/14	Methane	654	665	101.6%	4.8%
061814LCSD				634	96.9%	
061814LCS	06/18/14	Ethane	1,230	1,260	102.7%	3.2%
061814LCSD				1,220	99.4%	
061814LCS	06/18/14	Ethene	1,150	1,140	99.5%	2.7%
061814LCSD				1,110	96.9%	

Reported in ug/L (ppb)

RSK 175 WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: YO24-OnSite Environmental, Inc.
Project: 2007-098-2003

ARI ID	Client ID	PRP	TOT OUT
YO24A	BB-2	85.0%	0
YO24B	BI-3	85.0%	0
MB-061814	Method Blank	86.7%	0
LCS-061814	Lab Control	89.5%	0
LCSD-061814	Lab Control Dup	88.9%	0

LCS/MB LIMITS QC LIMITS

(PRP) = Propane (72-122) (72-122)

Log Number Range: 14-11799 to 14-11800



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

June 20, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-998
Laboratory Reference No. 1406-129

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on June 13, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 20, 2014
Samples Submitted: June 13, 2014
Laboratory Reference: 1406-129
Project: 2007-098-998

Case Narrative

Samples were collected on June 13, 2014 and received by the laboratory on June 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-10					
Laboratory ID:	06-129-01					
Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Toluene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
o-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Gasoline	ND	100	NWTPH-Gx	6-16-14	6-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>95</i>	<i>71-112</i>				

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616W3					
Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Toluene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
o-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Gasoline	ND	100	NWTPH-Gx	6-16-14	6-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	101	71-112				

Laboratory ID:	MB0618W2					
Benzene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
Toluene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
o-Xylene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
Gasoline	ND	100	NWTPH-Gx	6-18-14	6-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-129-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				95	95	71-112		

MATRIX SPIKES										
Laboratory ID:	06-129-01									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	48.1	50.5	50.0	50.0	ND	96	101	78-120	5	12
Toluene	49.9	51.4	50.0	50.0	ND	100	103	80-121	3	12
Ethyl Benzene	49.9	50.0	50.0	50.0	ND	100	100	81-120	0	13
m,p-Xylene	50.0	49.5	50.0	50.0	ND	100	99	81-119	1	13
o-Xylene	49.5	47.5	50.0	50.0	ND	99	95	79-117	4	13
<i>Surrogate:</i>										
<i>Fluorobenzene</i>					94	96	71-112			

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-10					
Laboratory ID:	06-129-01					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-14-14	6-17-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-14-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0614W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-14-14	6-16-14	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-14-14	6-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-082-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				85	89	50-150		

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-10					
Laboratory ID:	06-129-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloromethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromomethane	ND	0.35	EPA 8260C	6-17-14	6-17-14	
Chloroethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Iodomethane	ND	2.1	EPA 8260C	6-17-14	6-17-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloroform	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Trichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromomethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-10					
Laboratory ID:	06-129-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Tetrachloroethene	4.0	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromoform	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Bromobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0617W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloromethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromomethane	ND	0.35	EPA 8260C	6-17-14	6-17-14	
Chloroethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Iodomethane	ND	2.1	EPA 8260C	6-17-14	6-17-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloroform	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Trichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromomethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0617W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromoform	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Bromobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0617W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.29	8.84	10.0	10.0	93	88	63-142	5	17	
Benzene	9.10	8.60	10.0	10.0	91	86	78-125	6	15	
Trichloroethene	8.02	7.55	10.0	10.0	80	76	75-125	6	15	
Toluene	9.38	8.81	10.0	10.0	94	88	80-125	6	15	
Chlorobenzene	9.07	8.63	10.0	10.0	91	86	80-140	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					92	92	62-122			
Toluene-d8					95	94	70-120			
4-Bromofluorobenzene					95	95	71-120			

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

DISSOLVED METALS
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-129-01					
Client ID:	BLMW-10					
Arsenic	ND	3.0	200.8		6-16-14	
Cadmium	ND	4.0	200.8		6-16-14	
Chromium	ND	10	200.8		6-16-14	
Lead	ND	1.0	200.8		6-16-14	

Date of Report: June 20, 2014
Samples Submitted: June 13, 2014
Laboratory Reference: 1406-129
Project: 2007-098-998

**DISSOLVED METALS
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 6-16-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0611F1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0

Date of Report: June 20, 2014
Samples Submitted: June 13, 2014
Laboratory Reference: 1406-129
Project: 2007-098-998

**DISSOLVED METALS
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Analyzed: 6-16-14
Matrix: Water
Units: ug/L (ppb)
Lab ID: 06-117-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	8.06	8.33	3	3.0	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	

Date of Report: June 20, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-129
 Project: 2007-098-998

**DISSOLVED METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Analyzed: 6-16-14

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 06-117-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	220	106	224	108	2	
Cadmium	200	204	102	204	102	0	
Chromium	200	196	98	198	99	1	
Lead	200	190	95	192	96	1	



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-naphthalene) 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



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

June 23, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1406-130

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on June 13, 2014.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 23, 2014
Samples Submitted: June 13, 2014
Laboratory Reference: 1406-130
Project: 2007-098-2003

Case Narrative

Samples were collected on June 13, 2014 and received by the laboratory on June 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	06-130-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloromethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromomethane	ND	0.35	EPA 8260C	6-17-14	6-17-14	
Chloroethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Iodomethane	ND	2.1	EPA 8260C	6-17-14	6-17-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloroform	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Trichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromomethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	06-130-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Tetrachloroethene	0.90	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromoform	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Bromobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0617W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloromethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromomethane	ND	0.35	EPA 8260C	6-17-14	6-17-14	
Chloroethane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Iodomethane	ND	2.1	EPA 8260C	6-17-14	6-17-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chloroform	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Trichloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromomethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-17-14	6-17-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-17-14	6-17-14	

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0617W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Bromoform	ND	1.0	EPA 8260C	6-17-14	6-17-14	
Bromobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-17-14	6-17-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-17-14	6-17-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0617W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.29	8.84	10.0	10.0	93	88	63-142	5	17	
Benzene	9.10	8.60	10.0	10.0	91	86	78-125	6	15	
Trichloroethene	8.02	7.55	10.0	10.0	80	76	75-125	6	15	
Toluene	9.38	8.81	10.0	10.0	94	88	80-125	6	15	
Chlorobenzene	9.07	8.63	10.0	10.0	91	86	80-140	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					92	92	62-122			
<i>Toluene-d8</i>					95	94	70-120			
<i>4-Bromofluorobenzene</i>					95	95	71-120			

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	06-130-01					
Diesel Range Organics	ND	0.30	NWTPH-Dx	6-14-14	6-17-14	
Lube Oil Range Organics	ND	0.48	NWTPH-Dx	6-14-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0614W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-14-14	6-16-14	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-14-14	6-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-082-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				85	89	50-150		

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	06-130-01					
Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Toluene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
o-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Gasoline	ND	100	NWTPH-Gx	6-16-14	6-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>95</i>	<i>71-112</i>				

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616W3					
Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Toluene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
o-Xylene	ND	1.0	EPA 8021B	6-16-14	6-16-14	
Gasoline	ND	100	NWTPH-Gx	6-16-14	6-16-14	

Surrogate: Percent Recovery Control Limits
 Fluorobenzene 101 71-112

Laboratory ID:	MB0618W2					
Benzene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
Toluene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
o-Xylene	ND	1.0	EPA 8021B	6-18-14	6-18-14	
Gasoline	ND	100	NWTPH-Gx	6-18-14	6-18-14	

Surrogate: Percent Recovery Control Limits
 Fluorobenzene 93 71-112

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-129-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30

Surrogate:
 Fluorobenzene 95 95 71-112

MATRIX SPIKES

Laboratory ID:	06-129-01									
	MS	MSD	MS	MSD		MS	MSD			
Benzene	48.1	50.5	50.0	50.0	ND	96	101	78-120	5	12
Toluene	49.9	51.4	50.0	50.0	ND	100	103	80-121	3	12
Ethyl Benzene	49.9	50.0	50.0	50.0	ND	100	100	81-120	0	13
m,p-Xylene	50.0	49.5	50.0	50.0	ND	100	99	81-119	1	13
o-Xylene	49.5	47.5	50.0	50.0	ND	99	95	79-117	4	13

Surrogate:
 Fluorobenzene 94 96 71-112

Date of Report: June 23, 2014
Samples Submitted: June 13, 2014
Laboratory Reference: 1406-130
Project: 2007-098-2003

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	06-130-01					
Nitrate	2.0	0.050	EPA 353.2	6-16-14	6-16-14	

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0616W1					
Nitrate	ND	0.050	EPA 353.2	6-16-14	6-16-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-083-01							
	ORIG	DUP						
Nitrate	3.20	3.20	NA	NA	NA	0	16	

MATRIX SPIKE								
Laboratory ID:	06-083-01							
	MS	MS		MS				
Nitrate	7.84	4.00	3.20	116	84-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0616W1							
	SB	SB		SB				
Nitrate	2.22	2.00	NA	111	86-114	NA	NA	

Date of Report: June 23, 2014
Samples Submitted: June 13, 2014
Laboratory Reference: 1406-130
Project: 2007-098-2003

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	06-130-01					
Sulfate	24	10	ASTM D516-07	6-17-14	6-17-14	

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Sulfate	ND	5.0	ASTM D516-07	6-17-14	6-17-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-083-01							
	ORIG	DUP						
Sulfate	9.38	9.65	NA	NA	NA	3	10	

MATRIX SPIKE								
Laboratory ID:	06-083-01							
	MS	MS		MS				
Sulfate	20.1	10.0	9.38	107	82-123	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0617W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	91-114	NA	NA	

Date of Report: June 23, 2014
Samples Submitted: June 13, 2014
Laboratory Reference: 1406-130
Project: 2007-098-2003

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	06-130-01					
Total Organic Carbon	9.2	1.0	SM 5310B	6-20-14	6-20-14	

Date of Report: June 23, 2014
 Samples Submitted: June 13, 2014
 Laboratory Reference: 1406-130
 Project: 2007-098-2003

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0620W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-20-14	6-20-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-130-01							
	ORIG	DUP						
Total Organic Carbon	9.18	9.26	NA	NA	NA	NA	1	15

MATRIX SPIKE

Laboratory ID:	06-130-01							
	MS	MS		MS				
Total Organic Carbon	19.6		10.0	9.18	104	70-124	NA	NA

SPIKE BLANK

Laboratory ID:	SB0620W1							
	SB	SB		SB				
Total Organic Carbon	9.77		10.0	NA	98	91-119	NA	NA



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-naphthalene) 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



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 June 2014

David Baumeister
OnSite Environmental, Inc.
14648 NE 95th
Redmond, WA 98052

RE: Client Project: 2007-098-2003; Lab ID 06-130
ARI Job No: YO28

Dear David:

Please find enclosed the chain-of-custody (COC) record and the final results for the sample from the project referenced above. Analytical Resources, Inc. (ARI) accepted one water sample on June 17, 2014. The sample was analyzed for MEE as requested.

This analysis proceeded without incident of note.

An electronic copy of these reports will remain on file at ARI. Should you have any questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file YO28

MDH/mdh



Cooler Receipt Form

ARI Client ONSITE

Project Name 2007-098-2003

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS (Courier) Hand Delivered Other: Speedy

Assigned ARI Job No: Y028

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) ... YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)
Time: 1114 2.8

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: AV Date: 6/17/14 Time: 1114

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Ge Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: _____ (NA)

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: TJ Date: 6/12/14 Time: 1307

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

			Small → "sm" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: YO28
Client: OnSite Environmental, Inc.
Project Event: N/A
Project Name: 2007-098-2003

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. VCCMW-10	YO28A	14-11834	Water	06/13/14 09:57	06/17/14 11:14



Data Reporting Qualifiers

Effective 12/31/13

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.



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Consultants

- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



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Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

**ORGANICS ANALYSIS DATA SHEET
METHANE ETHANE ETHENE**

Modified RSK 175
Page 1 of 1
Matrix: Water

QC Report No: YO28-OnSite Environmental, Inc.
Project: 2007-098-2003
NA
Date Received: 06/17/14

Data Release Authorized: *AS*
Reported: 06/19/14

ARI ID	Sample ID	Analysis Date	DL	Analyte	RL	Result
YO28A 14-11834	VCCMW-10	06/18/14	1.0	Methane	0.7	48.6
				Ethane	1.2	< 1.2 U
				Ethene	1.1	< 1.1 U
061814MB	Method Blank	06/18/14	1.0	Methane	0.7	< 0.7 U
061814MB	Method Blank	06/18/14	1.0	Ethane	1.2	< 1.2 U
061814MB	Method Blank	06/18/14	1.0	Ethene	1.1	< 1.1 U

Reported in ug/L (ppb)

ORGANICS ANALYSIS DATA SHEET

METHANE ETHANE ETHENE

Modified RSK 175

Page 1 of 1

Matrix: Water

QC Report No: Y028-OnSite Environmental, Inc.

Project: 2007-098-2003

NA

Date Received: 06/17/14

Data Release Authorized: *AS*

Reported: 06/19/14

ARI ID	Analysis Date	Analyte	Spike	Result	Recovery	RPD
061814LCS	06/18/14	Methane	654	665	101.6%	4.8%
061814LCSD				634	96.9%	
061814LCS	06/18/14	Ethane	1,230	1,260	102.7%	3.2%
061814LCSD				1,220	99.4%	
061814LCS	06/18/14	Ethene	1,150	1,140	99.5%	2.7%
061814LCSD				1,110	96.9%	

Reported in ug/L (ppb)

RSK 175 WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: YO28-OnSite Environmental, Inc.
Project: 2007-098-2003

<u>ARI ID</u>	<u>Client ID</u>	<u>PRP</u>	<u>TOT OUT</u>
YO28A	VCCMW-10	96.1%	0
MB-061814	Method Blank	86.7%	0
LCS-061814	Lab Control	89.5%	0
LCSD-061814	Lab Control Dup	88.9%	0

LCS/MB LIMITS QC LIMITS

(PRP) = Propane (72-122) (72-122)

Log Number Range: 14-11834 to 14-11834



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

June 24, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-998
Laboratory Reference No. 1406-141

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on June 16, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 24, 2014
Samples Submitted: June 16, 2014
Laboratory Reference: 1406-141
Project: 2007-098-998

Case Narrative

Samples were collected on June 13 and 16, 2014 and received by the laboratory on June 16, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 6/13/14					
Laboratory ID:	06-141-01					
Benzene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Toluene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
o-Xylene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Gasoline	ND	100	NWTPH-Gx	6-17-14	6-17-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 96 71-112

Client ID:	BLMW-9					
Laboratory ID:	06-141-02					
Benzene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Toluene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
o-Xylene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Gasoline	ND	100	NWTPH-Gx	6-17-14	6-17-14	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 97 71-112

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Benzene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Toluene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Ethyl Benzene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
m,p-Xylene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
o-Xylene	ND	1.0	EPA 8021B	6-17-14	6-17-14	
Gasoline	ND	100	NWTPH-Gx	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-141-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				96	97	71-112		

SPIKE BLANKS

Laboratory ID:	SB0617W1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	50.4	51.4	50.0	50.0	101	103	86-116	2	11
Toluene	51.5	51.9	50.0	50.0	103	104	86-117	1	12
Ethyl Benzene	51.7	51.9	50.0	50.0	103	104	86-118	0	13
m,p-Xylene	51.8	52.2	50.0	50.0	104	104	86-118	1	14
o-Xylene	51.4	51.9	50.0	50.0	103	104	85-117	1	14
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					98	97	71-112		

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 6/13/14					
Laboratory ID:	06-141-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-17-14	6-17-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				
Client ID:	BLMW-9					
Laboratory ID:	06-141-02					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-17-14	6-17-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-17-14	6-17-14	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-17-14	6-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>81</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-141-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				75	88	50-150		

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 6/13/14					
Laboratory ID:	06-141-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chloromethane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromomethane	ND	0.39	EPA 8260C	6-18-14	6-18-14	
Chloroethane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Iodomethane	ND	2.1	EPA 8260C	6-18-14	6-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-18-14	6-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chloroform	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Trichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Dibromomethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-18-14	6-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 6/13/14					
Laboratory ID:	06-141-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromoform	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Bromobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

HALOGENATED VOLATILES EPA 8260C

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-9					
Laboratory ID:	06-141-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chloromethane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromomethane	ND	0.39	EPA 8260C	6-18-14	6-18-14	
Chloroethane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Iodomethane	ND	2.1	EPA 8260C	6-18-14	6-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-18-14	6-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chloroform	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Trichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Dibromomethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-18-14	6-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

HALOGENATED VOLATILES EPA 8260C
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-9					
Laboratory ID:	06-141-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromoform	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Bromobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0618W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chloromethane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromomethane	ND	0.39	EPA 8260C	6-18-14	6-18-14	
Chloroethane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Iodomethane	ND	2.1	EPA 8260C	6-18-14	6-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	6-18-14	6-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chloroform	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Trichloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Dibromomethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-18-14	6-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-18-14	6-18-14	

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0618W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Bromoform	ND	1.0	EPA 8260C	6-18-14	6-18-14	
Bromobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-18-14	6-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-18-14	6-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-18-14	6-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	06-073-02									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	8.27	9.02	10.0	10.0	ND	83	90	57-133	9	15
Benzene	8.59	8.85	10.0	10.0	ND	86	89	78-117	3	15
Trichloroethene	8.09	7.78	10.0	10.0	ND	81	78	77-120	4	15
Toluene	9.24	9.02	10.0	10.0	ND	92	90	80-115	2	15
Chlorobenzene	8.74	8.61	10.0	10.0	ND	87	86	80-122	1	15
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>						93	96	62-122		
<i>Toluene-d8</i>						97	96	70-120		
<i>4-Bromofluorobenzene</i>						95	97	71-120		

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

DISSOLVED METALS
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-141-01					
Client ID:	Dup 6/13/14					
Arsenic	3.2	3.0	200.8		6-24-14	
Cadmium	ND	4.0	200.8		6-24-14	
Chromium	ND	10	200.8		6-24-14	
Lead	ND	1.0	200.8		6-24-14	

Lab ID:	06-141-02					
Client ID:	BLMW-9					
Arsenic	ND	3.0	200.8		6-24-14	
Cadmium	ND	4.0	200.8		6-24-14	
Chromium	ND	10	200.8		6-24-14	
Lead	ND	1.0	200.8		6-24-14	

Date of Report: June 24, 2014
Samples Submitted: June 16, 2014
Laboratory Reference: 1406-141
Project: 2007-098-998

**DISSOLVED METALS
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 6-24-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0618F1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0

Date of Report: June 24, 2014
Samples Submitted: June 16, 2014
Laboratory Reference: 1406-141
Project: 2007-098-998

**DISSOLVED METALS
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Analyzed: 6-24-14
Matrix: Water
Units: ug/L (ppb)
Lab ID: 06-141-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	3.24	3.60	10	3.0	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	

Date of Report: June 24, 2014
 Samples Submitted: June 16, 2014
 Laboratory Reference: 1406-141
 Project: 2007-098-998

**DISSOLVED METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Analyzed: 6-24-14

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 06-141-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	234	115	235	116	0	
Cadmium	200	231	116	225	112	3	
Chromium	200	192	96	187	93	3	
Lead	200	204	102	205	102	0	



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-naphthalene) 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



MVA OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: **MVA GeoSciences**

Project Number: **2007-098-998**

Project Name: **Aqua Verde Monitoring, Landfill**

Project Manager: **Annie Sagar**
Sampled by: **Conn Nielsen**

Turnaround Request (in working days)
(Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days) (T/PH analysis 5 Days)
- _____ (other)

Laboratory Number: **06-141**

Date Sampled	Time Sampled	Matrix
6/13/14	14:20	W
6/16/14	10:20	W

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	X
NWTPH-Gx	
NWTPH-Dx	X
Volatiles 8260C	
Halogenated Volatiles 8260C	X
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
Total As, Cd, Cr, Pb	X
Dissolved As, Cd, Cr, Pb	X
% Moisture	

Hold X

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Comments/Special Instructions
1	Gap 6/13/14	6/13/14	14:20	W	X	
2	BL MW-9	6/16/14	10:20	W	X	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Conn Nielsen</i>	MVA GeoSciences	6-16-14	13:35	
<i>OSB</i>	Sweeney Hsngvr	6-16-14	1335	
<i>OSB</i>	"	6-16-14	1402	
<i>OSB</i>	"	6/16/14	1402	



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

August 21, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1408-123

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 21, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-123
Project: 2007-098-2003

Case Narrative

Samples were collected on August 13, 14, and 15, 2014 and received by the laboratory on August 15, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	08-123-01					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	08-123-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11D					
Laboratory ID:	08-123-02					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11D					
Laboratory ID:	08-123-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	08-123-03					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	08-123-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25					
Laboratory ID:	08-123-04					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	0.62	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25					
Laboratory ID:	08-123-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	9.3	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24					
Laboratory ID:	08-123-05					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	8-19-14	8-19-14	
Chloromethane	ND	1.5	EPA 8260C	8-19-14	8-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromomethane	ND	0.40	EPA 8260C	8-19-14	8-19-14	
Chloroethane	ND	1.0	EPA 8260C	8-19-14	8-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Iodomethane	ND	1.7	EPA 8260C	8-19-14	8-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-19-14	8-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Chloroform	1.3	0.20	EPA 8260C	8-19-14	8-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Trichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Dibromomethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-19-14	8-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-19-14	8-19-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24					
Laboratory ID:	08-123-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Tetrachloroethene	2.5	0.20	EPA 8260C	8-19-14	8-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromoform	ND	1.0	EPA 8260C	8-19-14	8-19-14	
Bromobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-19-14	8-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>74</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21					
Laboratory ID:	08-123-06					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	0.22	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	0.49	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21					
Laboratory ID:	08-123-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	19	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20					
Laboratory ID:	08-123-07					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	1.4	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	6.6	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	0.69	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	4.2	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20					
Laboratory ID:	08-123-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	48	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12D					
Laboratory ID:	08-123-08					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12D					
Laboratory ID:	08-123-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	0.41	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12S					
Laboratory ID:	08-123-09					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12S					
Laboratory ID:	08-123-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	0.22	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15					
Laboratory ID:	08-123-10					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15					
Laboratory ID:	08-123-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	4.2	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22					
Laboratory ID:	08-123-11					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22					
Laboratory ID:	08-123-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	0.67	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-16					
Laboratory ID:	08-123-12					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-16					
Laboratory ID:	08-123-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-17					
Laboratory ID:	08-123-13					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-17					
Laboratory ID:	08-123-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	0.21	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1 8/15/14					
Laboratory ID:	08-123-14					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1 8/15/14					
Laboratory ID:	08-123-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	0.23	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818W1					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	8-18-14	8-18-14	
Chloromethane	ND	1.5	EPA 8260C	8-18-14	8-18-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromomethane	ND	0.51	EPA 8260C	8-18-14	8-18-14	
Chloroethane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Iodomethane	ND	2.7	EPA 8260C	8-18-14	8-18-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chloroform	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Trichloroethene	ND	0.25	EPA 8260C	8-18-14	8-18-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromomethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-18-14	8-18-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-18-14	8-18-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Bromoform	ND	1.0	EPA 8260C	8-18-14	8-18-14	
Bromobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-18-14	8-18-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-18-14	8-18-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-18-14	8-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819W1					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	8-19-14	8-19-14	
Chloromethane	ND	1.5	EPA 8260C	8-19-14	8-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromomethane	ND	0.40	EPA 8260C	8-19-14	8-19-14	
Chloroethane	ND	1.0	EPA 8260C	8-19-14	8-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Iodomethane	ND	1.7	EPA 8260C	8-19-14	8-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-19-14	8-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Chloroform	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Trichloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Dibromomethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-19-14	8-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-19-14	8-19-14	

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Bromoform	ND	1.0	EPA 8260C	8-19-14	8-19-14	
Bromobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-19-14	8-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-19-14	8-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-19-14	8-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0818W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.70	9.04	10.0	10.0	87	90	63-142	4	17	
Benzene	9.13	9.55	10.0	10.0	91	96	78-125	4	15	
Trichloroethene	7.57	8.14	10.0	10.0	76	81	74-125	7	15	
Toluene	8.96	9.65	10.0	10.0	90	97	80-125	7	15	
Chlorobenzene	9.11	9.48	10.0	10.0	91	95	80-140	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>106</i>	<i>106</i>	<i>62-122</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>101</i>	<i>70-120</i>			
<i>4-Bromofluorobenzene</i>					<i>94</i>	<i>94</i>	<i>71-120</i>			

Date of Report: August 21, 2014
 Samples Submitted: August 15, 2014
 Laboratory Reference: 1408-123
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0819W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.46	9.60	10.0	10.0	95	96	63-142	1	17	
Benzene	10.0	10.4	10.0	10.0	100	104	78-125	4	15	
Trichloroethene	8.17	8.38	10.0	10.0	82	84	74-125	3	15	
Toluene	9.66	10.1	10.0	10.0	97	101	80-125	4	15	
Chlorobenzene	9.47	9.79	10.0	10.0	95	98	80-140	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					110	112	62-122			
Toluene-d8					101	102	70-120			
4-Bromofluorobenzene					96	96	71-120			



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-naphthalene) 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



HWA GEOSCIENCES INC.

21312 30th Drive SE, Suite 110, Bothell, Washington 98021-7010
Tel 425.774.0106 Fax 425.774.2714 www.hwageo.com

Chain of Custody and Laboratory Analysis Request

DATE: _____
PAGE: _____ of _____

PROJECT NAME: Bothell Crossroad # 2007018203
SAMPLERS NAME: Kimberly Shison PHONE: 425 328 5600
SAMPLERS SIGNATURE: [Signature] DATE: 8/15/14
HWA CONTACT: Arnie Sugar PHONE: 425 578 5600

ANALYSIS REQUESTED

08-123

TURNAROUND TIME

DAYS

STANDARD

REMARKS

HWA SAMPLE ID	DATE	TIME	MATRIX	LAB ID	# OF BOTTLE
MW-82	8/15/14	1040	W	1	3
MW-11D		345	W	2	3
MW-11S		430	W	3	3
MW-25	8/14/14	1000	W	4	3
MW-24		1045	W	5	3
MW-21		1145	W	6	3
MW-20		1230	W	7	3
MW-12D		210	W	8	3
MW-12S		250	W	9	3
MW-15		345	W	10	3
MW-22	8/15/14	1040	W	11	3
MW-16		1140	W	12	3
MW-17		1255	W	13	3
DUP18/15/14		1800	W	14	3
Trip Blanks	8/15/14	100	W	15	2

COMPANY	DATE	TIME	REMARKS
HWA	8/15/14	1:00	
HWA	8/15/14	13:00	
HWA	8/15/14	13:34	
OSE	8/15/14	13:35	

PRINT NAME	SIGNATURE	COMPANY	DATE	TIME	REMARKS
Relinquished by:	<u>[Signature]</u>	HWA	8/15/14	1:00	
Received by:	<u>[Signature]</u>	HWA	8/15/14	13:00	
Relinquished by:	<u>[Signature]</u>	HWA	8/15/14	13:34	
Received by:	<u>[Signature]</u>	OSE	8/15/14	13:35	

DISTRIBUTION: WHITE - Return to HWA GeoSciences; YELLOW - Retain by Lab; PINK - Retain by Sampler



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

August 26, 2014

Kim Stilson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2003
Laboratory Reference No. 1408-177

Dear Kim:

Enclosed are the analytical results and associated quality control data for samples submitted on August 20, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 26, 2014
Samples Submitted: August 20, 2014
Laboratory Reference: 1408-177
Project: 2007-098-2003

Case Narrative

Samples were collected on August 19 and 20, 2014 and received by the laboratory on August 20, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW13S					
Laboratory ID:	08-177-01					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW13S					
Laboratory ID:	08-177-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	0.90	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW13D					
Laboratory ID:	08-177-02					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW13D					
Laboratory ID:	08-177-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW14S					
Laboratory ID:	08-177-03					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW14S					
Laboratory ID:	08-177-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	6.1	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW14D					
Laboratory ID:	08-177-04					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW14D					
Laboratory ID:	08-177-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3					
Laboratory ID:	08-177-05					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3					
Laboratory ID:	08-177-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	1.3	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	08-177-06					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	0.40	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	0.29	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	0.32	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	08-177-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	9.5	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW18					
Laboratory ID:	08-177-07					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW18					
Laboratory ID:	08-177-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	5.8	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW19					
Laboratory ID:	08-177-08					
Dichlorodifluoromethane	ND	8.3	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	40	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	7.0	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	25	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	25	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	25	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	11	5.0	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	60	5.0	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	33	5.0	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	25	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	5.0	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW19					
Laboratory ID:	08-177-08					
1,1,2-Trichloroethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	1100	5.0	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	25	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	5.0	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	25	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	5.0	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW4					
Laboratory ID:	08-177-09					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW4					
Laboratory ID:	08-177-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	4.9	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7					
Laboratory ID:	08-177-10					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	1.0	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7					
Laboratory ID:	08-177-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	28	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB3					
Laboratory ID:	08-177-11					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB3					
Laboratory ID:	08-177-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	0.75	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5					
Laboratory ID:	08-177-12					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	0.24	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5					
Laboratory ID:	08-177-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	15	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6					
Laboratory ID:	08-177-13					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6					
Laboratory ID:	08-177-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	4.8	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW23					
Laboratory ID:	08-177-14					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW23					
Laboratory ID:	08-177-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	2.5	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822W1					
Dichlorodifluoromethane	ND	0.33	EPA 8260C	8-22-14	8-22-14	
Chloromethane	ND	1.6	EPA 8260C	8-22-14	8-22-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromomethane	ND	0.28	EPA 8260C	8-22-14	8-22-14	
Chloroethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Iodomethane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chloroform	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Trichloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromomethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-22-14	8-22-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-22-14	8-22-14	

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Bromoform	ND	1.0	EPA 8260C	8-22-14	8-22-14	
Bromobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-22-14	8-22-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-22-14	8-22-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-22-14	8-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-120</i>				

Date of Report: August 26, 2014
 Samples Submitted: August 20, 2014
 Laboratory Reference: 1408-177
 Project: 2007-098-2003

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	08-185-01									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	8.76	8.84	10.0	10.0	ND	88	88	57-133	1	15
Benzene	10.0	9.86	10.0	10.0	ND	100	99	78-117	1	15
Trichloroethene	8.02	8.04	10.0	10.0	ND	80	80	77-120	0	15
Toluene	9.84	9.75	10.0	10.0	ND	98	98	80-115	1	15
Chlorobenzene	9.45	9.54	10.0	10.0	ND	95	95	80-122	1	15
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>						<i>104</i>	<i>102</i>	<i>62-122</i>		
<i>Toluene-d8</i>						<i>99</i>	<i>98</i>	<i>70-120</i>		
<i>4-Bromofluorobenzene</i>						<i>96</i>	<i>94</i>	<i>71-120</i>		



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-naphthalene) 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



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

September 25, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007098996
Laboratory Reference No. 1409-150

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on September 15, 2014.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 25, 2014
Samples Submitted: September 15, 2014
Laboratory Reference: 1409-150
Project: 2007098996

Case Narrative

Samples were collected on September 13, 2014 and received by the laboratory on September 15, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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/BTEX Analysis

The gasoline result for sample UCCMW8 is attributed to a single peak (Tetrachloroethene).

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.

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW9					
Laboratory ID:	09-150-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Chloromethane	ND	1.0	EPA 8260C	9-19-14	9-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Bromomethane	ND	0.31	EPA 8260C	9-19-14	9-19-14	
Chloroethane	ND	1.0	EPA 8260C	9-19-14	9-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Iodomethane	ND	1.8	EPA 8260C	9-19-14	9-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-19-14	9-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
(cis) 1,2-Dichloroethene	0.21	0.20	EPA 8260C	9-19-14	9-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Chloroform	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Trichloroethene	0.23	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Dibromomethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-19-14	9-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-19-14	9-19-14	

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW9					
Laboratory ID:	09-150-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Tetrachloroethene	2.5	0.20	EPA 8260C	9-19-14	9-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Bromoform	ND	1.0	EPA 8260C	9-19-14	9-19-14	
Bromobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-19-14	9-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW8					
Laboratory ID:	09-150-02					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Chloromethane	ND	2.0	EPA 8260C	9-19-14	9-19-14	
Vinyl Chloride	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Bromomethane	ND	0.62	EPA 8260C	9-19-14	9-19-14	
Chloroethane	ND	2.0	EPA 8260C	9-19-14	9-19-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloroethene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Iodomethane	ND	3.6	EPA 8260C	9-19-14	9-19-14	
Methylene Chloride	ND	2.0	EPA 8260C	9-19-14	9-19-14	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloroethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Bromochloromethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Chloroform	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,2-Dichloroethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Trichloroethene	0.57	0.40	EPA 8260C	9-19-14	9-19-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Dibromomethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Bromodichloromethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	9-19-14	9-19-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-19-14	9-19-14	

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW8					
Laboratory ID:	09-150-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Tetrachloroethene	76	0.40	EPA 8260C	9-19-14	9-19-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Dibromochloromethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Chlorobenzene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Bromoform	ND	2.0	EPA 8260C	9-19-14	9-19-14	
Bromobenzene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	9-19-14	9-19-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	9-19-14	9-19-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	9-19-14	9-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0919W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Chloromethane	ND	1.0	EPA 8260C	9-19-14	9-19-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Bromomethane	ND	0.31	EPA 8260C	9-19-14	9-19-14	
Chloroethane	ND	1.0	EPA 8260C	9-19-14	9-19-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Iodomethane	ND	1.8	EPA 8260C	9-19-14	9-19-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-19-14	9-19-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Chloroform	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Trichloroethene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Dibromomethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-19-14	9-19-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-19-14	9-19-14	

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0919W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Bromoform	ND	1.0	EPA 8260C	9-19-14	9-19-14	
Bromobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-19-14	9-19-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-19-14	9-19-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-19-14	9-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	09-149-09										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	7.89	7.34	10.0	10.0	ND	79	73	57-133	7	15	
Benzene	8.20	8.78	10.0	10.0	ND	82	88	75-117	7	15	
Trichloroethene	7.64	8.05	10.0	10.0	ND	76	81	75-120	5	15	
Toluene	7.79	8.41	10.0	10.0	ND	78	84	75-115	8	15	
Chlorobenzene	8.39	8.71	10.0	10.0	ND	84	87	75-122	4	15	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>						94	97	62-122			
<i>Toluene-d8</i>						95	97	70-120			
<i>4-Bromofluorobenzene</i>						94	94	71-120			

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW9					
Laboratory ID:	09-150-01					
Benzene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Toluene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Ethyl Benzene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
m,p-Xylene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
o-Xylene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Gasoline	ND	100	NWTPH-Gx	9-19-14	9-19-14	

Surrogate: Percent Recovery Control Limits
Fluorobenzene 90 71-112

Client ID:	UCCMW8					
Laboratory ID:	09-150-02					
Benzene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Toluene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Ethyl Benzene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
m,p-Xylene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
o-Xylene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Gasoline	110	100	NWTPH-Gx	9-19-14	9-19-14	Z

Surrogate: Percent Recovery Control Limits
Fluorobenzene 84 71-112

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W1					
Benzene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Toluene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Ethyl Benzene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
m,p-Xylene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
o-Xylene	ND	1.0	EPA 8021B	9-19-14	9-19-14	
Gasoline	ND	100	NWTPH-Gx	9-19-14	9-19-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-149-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	1610	1600	NA	NA	NA	NA	1	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				88	92	71-112		

MATRIX SPIKES

Laboratory ID:	09-149-02									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	56.4	54.2	50.0	50.0	ND	113	108	78-120	4	12
Toluene	55.8	53.6	50.0	50.0	ND	112	107	80-121	4	12
Ethyl Benzene	55.0	52.9	50.0	50.0	ND	110	106	81-120	4	13
m,p-Xylene	54.5	52.4	50.0	50.0	ND	109	105	81-119	4	13
o-Xylene	54.6	52.7	50.0	50.0	ND	109	105	79-117	4	13
<i>Surrogate:</i>										
<i>Fluorobenzene</i>					100	100	71-112			

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW9					
Laboratory ID:	09-150-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	9-18-14	9-18-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	9-18-14	9-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				
Client ID:	UCCMW8					
Laboratory ID:	09-150-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	9-18-14	9-18-14	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	9-18-14	9-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	9-18-14	9-18-14	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	9-18-14	9-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>90</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-148-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>88</i>	<i>90</i>	<i>50-150</i>		

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

SEMIVOLATILES EPA 8270D/SIM

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW8					
Laboratory ID:	09-150-02					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Pyridine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Phenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Aniline	ND	5.0	EPA 8270D	9-17-14	9-17-14	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Chlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Benzyl alcohol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	9-17-14	9-17-14	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	9-17-14	9-17-14	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Hexachloroethane	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Nitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Isophorone	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Nitrophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Naphthalene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
4-Chloroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Hexachlorobutadiene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Chloronaphthalene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Nitroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Dimethylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
3-Nitroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

SEMIVOLATILES EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW8					
Laboratory ID:	09-150-02					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	9-17-14	9-17-14	
Acenaphthene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
4-Nitrophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Dibenzofuran	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Diethylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Nitroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Fluorene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	9-17-14	9-17-14	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Hexachlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Pentachlorophenol	ND	5.0	EPA 8270D	9-17-14	9-17-14	
Phenanthrene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Anthracene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Carbazole	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Di-n-butylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Fluoranthene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Benzidine	ND	5.0	EPA 8270D	9-17-14	9-17-14	
Pyrene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Butylbenzylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	9-17-14	9-17-14	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Benzo[a]anthracene	0.020	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Chrysene	0.015	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Di-n-octylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Benzo[b]fluoranthene	0.016	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Benzo(j,k)fluoranthene	0.014	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Benzo[a]pyrene	0.014	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Indeno[1,2,3-cd]pyrene	0.014	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Dibenz[a,h]anthracene	0.013	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Benzo[g,h,i]perylene	0.016	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	17 - 81				
Phenol-d6	45	10 - 89				
Nitrobenzene-d5	56	35 - 110				
2-Fluorobiphenyl	66	45 - 110				
2,4,6-Tribromophenol	80	39 - 125				
Terphenyl-d14	84	58 - 111				

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0917W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Pyridine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Phenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Aniline	ND	5.0	EPA 8270D	9-17-14	9-17-14	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Chlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Benzyl alcohol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	9-17-14	9-17-14	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	9-17-14	9-17-14	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Hexachloroethane	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Nitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Isophorone	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Nitrophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Naphthalene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
4-Chloroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Hexachlorobutadiene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Chloronaphthalene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2-Nitroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Dimethylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
3-Nitroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0917W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	9-17-14	9-17-14	
Acenaphthene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
4-Nitrophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Dibenzofuran	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Diethylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Nitroaniline	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Fluorene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	9-17-14	9-17-14	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Hexachlorobenzene	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Pentachlorophenol	ND	5.0	EPA 8270D	9-17-14	9-17-14	
Phenanthrene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Anthracene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Carbazole	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Di-n-butylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Fluoranthene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Benzidine	ND	5.0	EPA 8270D	9-17-14	9-17-14	
Pyrene	ND	0.10	EPA 8270D/SIM	9-17-14	9-17-14	
Butylbenzylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	9-17-14	9-17-14	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Chrysene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
bis(2-Ethylhexyl)phthalate	1.1	1.0	EPA 8270D	9-17-14	9-17-14	
Di-n-octylphthalate	ND	1.0	EPA 8270D	9-17-14	9-17-14	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	9-17-14	9-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	51	17 - 81				
Phenol-d6	40	10 - 89				
Nitrobenzene-d5	74	35 - 110				
2-Fluorobiphenyl	80	45 - 110				
2,4,6-Tribromophenol	85	39 - 125				
Terphenyl-d14	88	58 - 111				

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

**SEMIVOLATILES EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0917W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	19.8	19.0	40.0	40.0	50	48	28 - 70	4	30	
2-Chlorophenol	34.9	33.8	40.0	40.0	87	85	41 - 102	3	34	
1,4-Dichlorobenzene	16.0	15.6	20.0	20.0	80	78	34 - 95	3	33	
n-Nitroso-di-n-propylamine	16.7	15.6	20.0	20.0	84	78	48 - 98	7	30	
1,2,4-Trichlorobenzene	16.8	15.9	20.0	20.0	84	80	34 - 102	6	30	
4-Chloro-3-methylphenol	36.2	34.7	40.0	40.0	91	87	60 - 116	4	27	
Acenaphthene	16.8	16.0	20.0	20.0	84	80	51 - 110	5	25	
4-Nitrophenol	22.7	21.1	40.0	40.0	57	53	26 - 74	7	40	
2,4-Dinitrotoluene	18.7	18.2	20.0	20.0	94	91	59 - 117	3	28	
Pentachlorophenol	36.1	33.9	40.0	40.0	90	85	29 - 133	6	39	
Pyrene	18.8	18.9	20.0	20.0	94	95	58 - 121	1	28	
<i>Surrogate:</i>										
2-Fluorophenol					56	54	17 - 81			
Phenol-d6					43	43	10 - 89			
Nitrobenzene-d5					78	76	35 - 110			
2-Fluorobiphenyl					84	80	45 - 110			
2,4,6-Tribromophenol					85	83	39 - 125			
Terphenyl-d14					88	87	58 - 111			

Date of Report: September 25, 2014
Samples Submitted: September 15, 2014
Laboratory Reference: 1409-150
Project: 2007098996

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	09-150-02					
Client ID:	UCCMW8					
Arsenic	ND	3.0	200.8		9-22-14	
Cadmium	ND	4.0	200.8		9-22-14	
Chromium	ND	10	200.8		9-22-14	
Lead	ND	1.0	200.8		9-22-14	

Date of Report: September 25, 2014
Samples Submitted: September 15, 2014
Laboratory Reference: 1409-150
Project: 2007098996

**DISSOLVED METALS
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 9-22-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0922D1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0

Date of Report: September 25, 2014
Samples Submitted: September 15, 2014
Laboratory Reference: 1409-150
Project: 2007098996

**DISSOLVED METALS
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Analyzed: 9-22-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: 09-149-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.0	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	

Date of Report: September 25, 2014
 Samples Submitted: September 15, 2014
 Laboratory Reference: 1409-150
 Project: 2007098996

**DISSOLVED METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Analyzed: 9-22-14

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 09-149-01

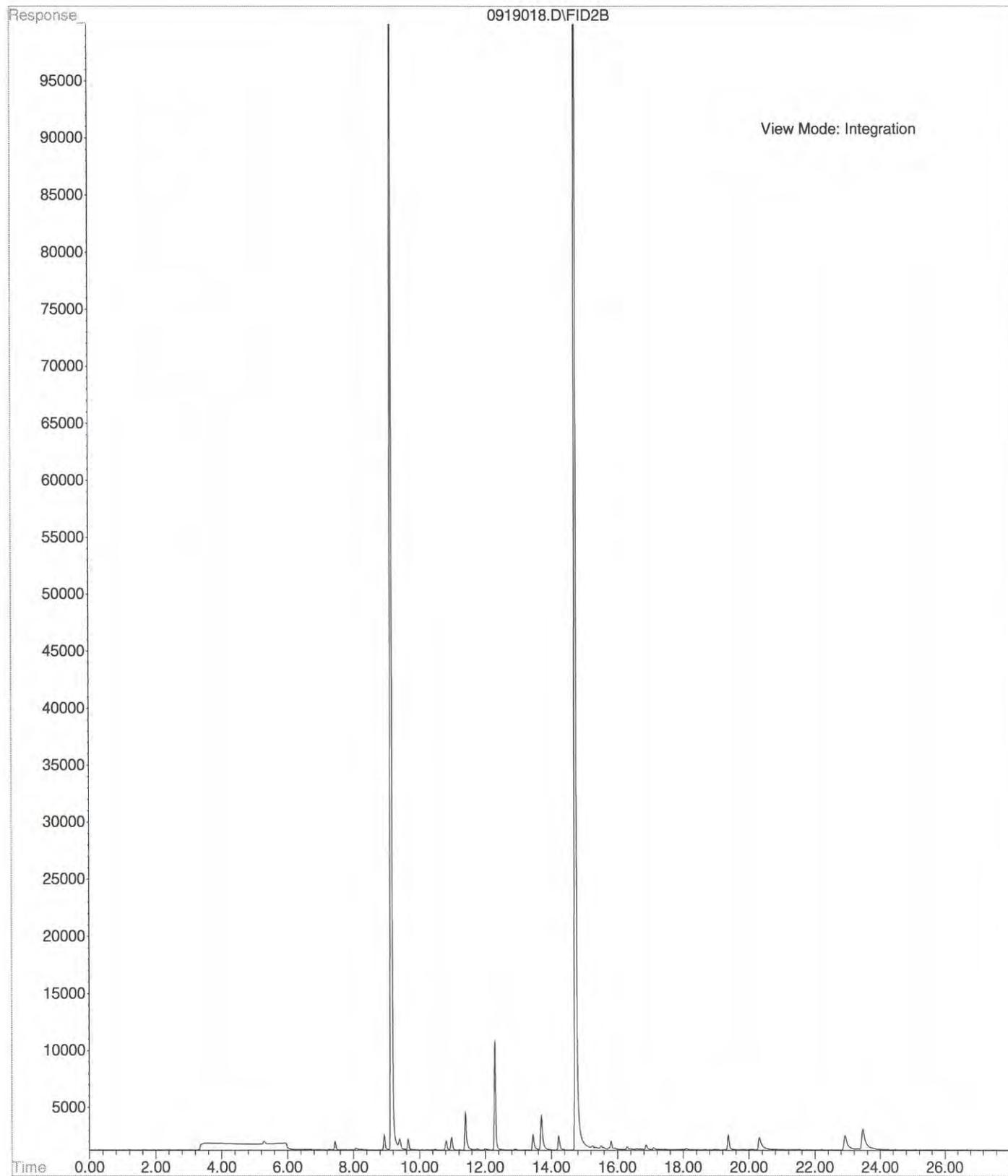
Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	216	108	216	108	0	
Cadmium	200	222	111	221	111	0	
Chromium	200	197	98	202	101	3	
Lead	200	198	99	204	102	3	



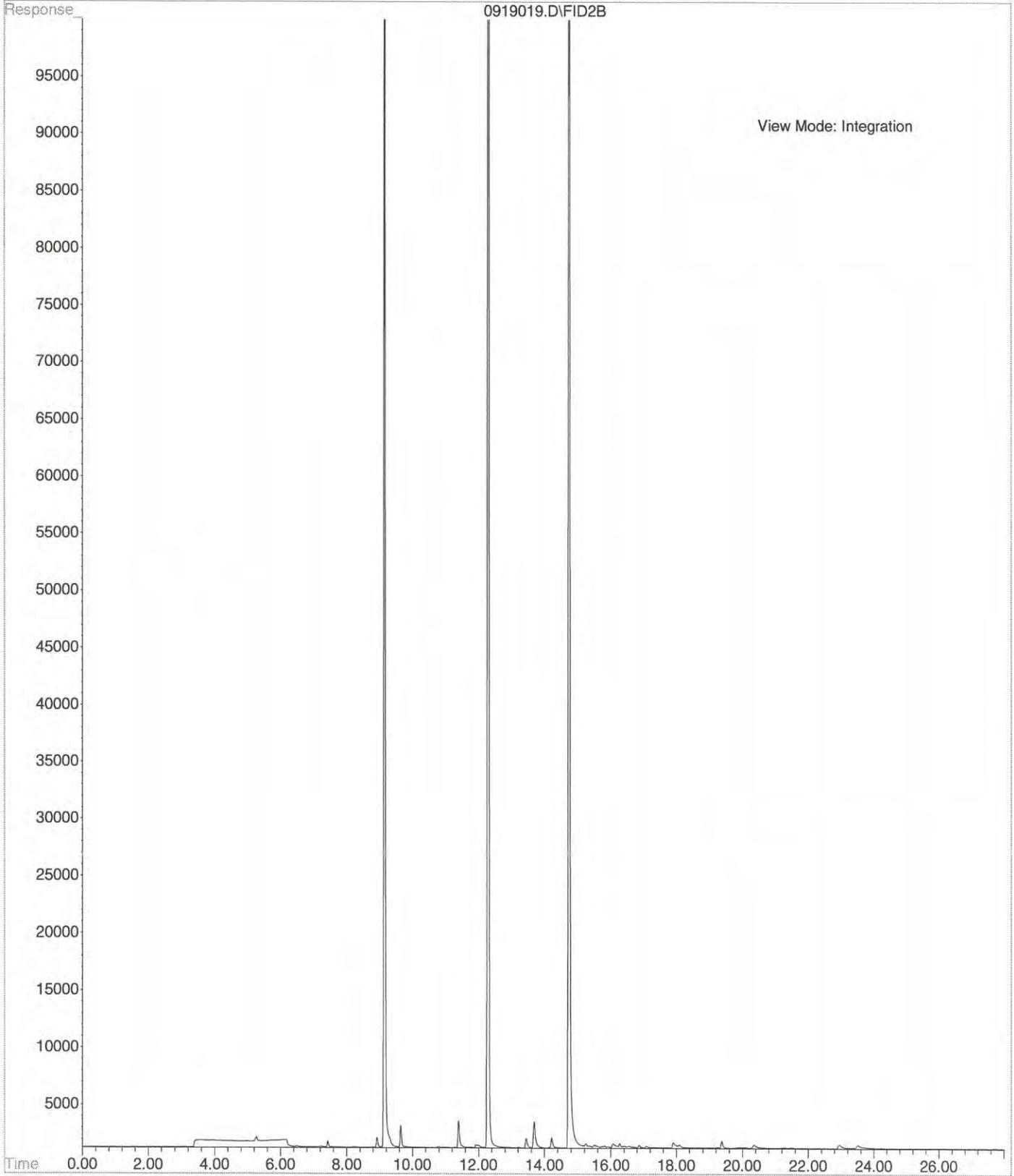
Data Qualifiers and Abbreviations

- 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-naphthalene) 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 - The gasoline result is attributed to a single peak (Tetrachloroethene).
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

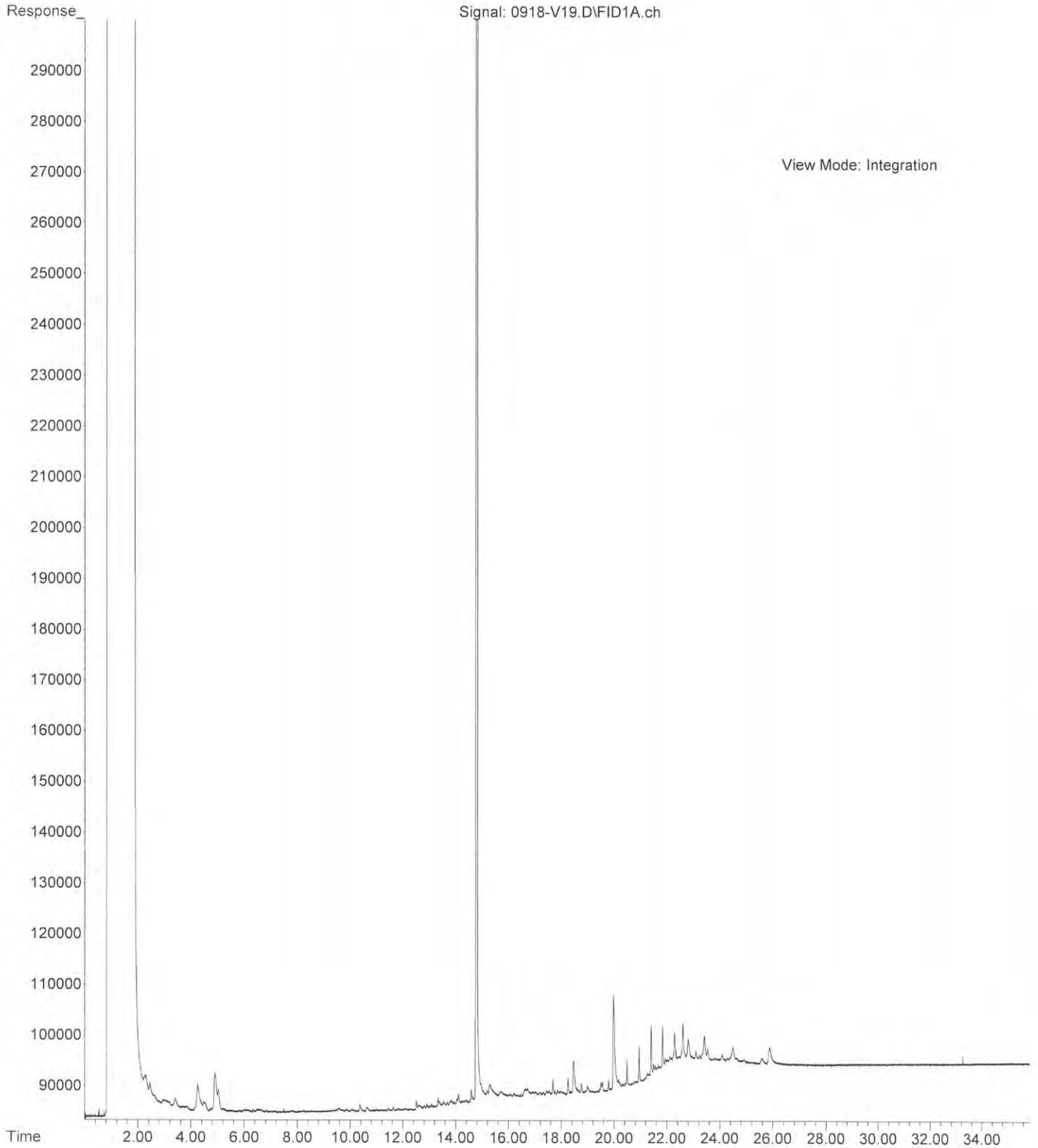
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Operator :
Acquired : 19 Sep 2014 16:24 using AcqMethod 140822B.M
Instrument : HOPE
Sample Name: 09-150-01e
Misc Info :
Vial Number: 18



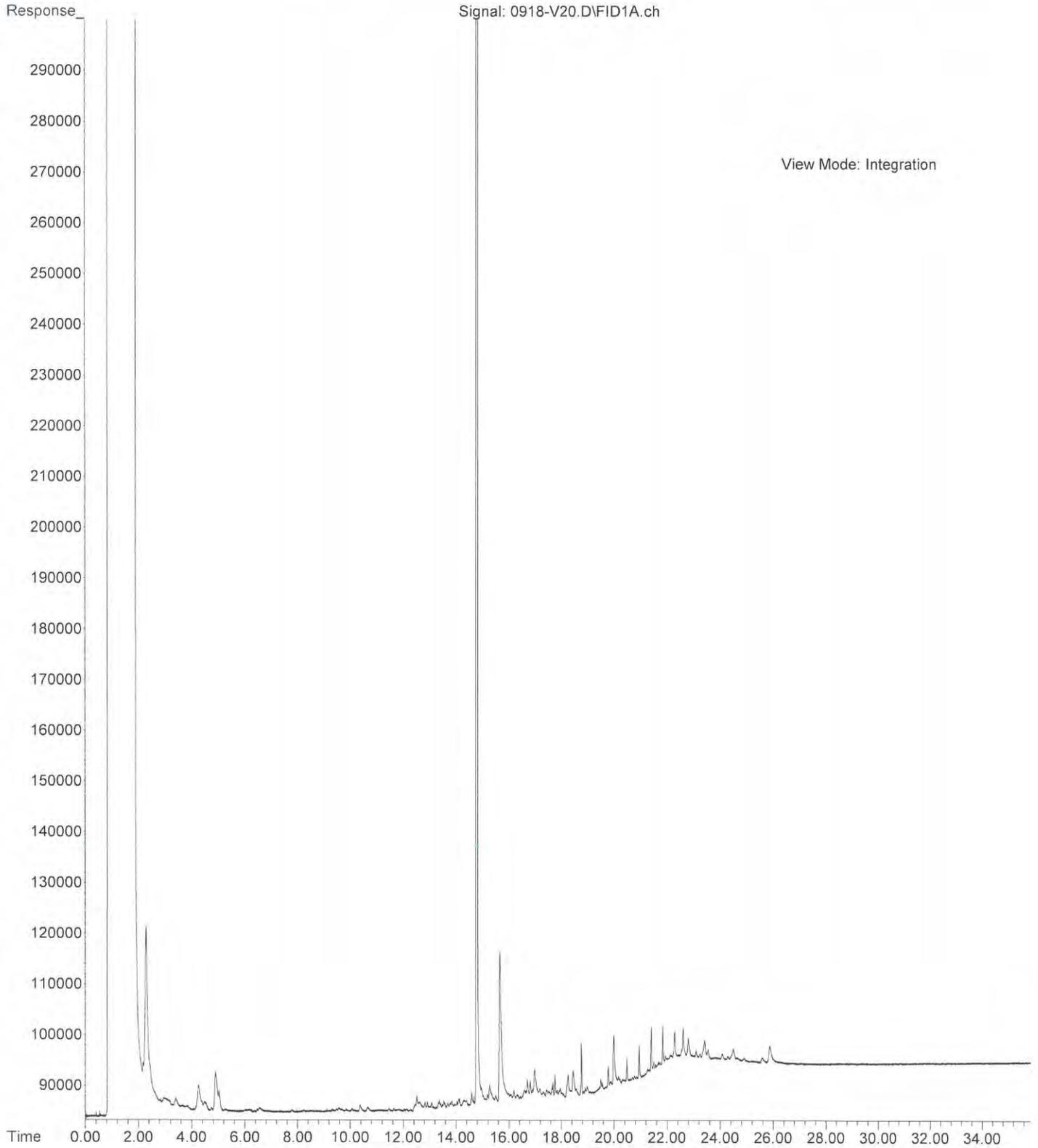
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Operator :
Acquired : 19 Sep 2014 16:59 using AcqMethod 140822B.M
Instrument : HOPE
Sample Name: 09-150-02e
Misc Info :
Vial Number: 19



File : C:\msdchem\2\DATA\V140918\0918-V19.D
Operator :
Acquired : 18 Sep 2014 23:14 using AcqMethod V140210F.M
Instrument : Vigo
Sample Name: 09-150-01
Misc Info :
Vial Number: 19



File :C:\msdchem\2\DATA\V140918\0918-V20.D
Operator :
Acquired : 18 Sep 2014 23:55 using AcqMethod V140210F.M
Instrument : Vigo
Sample Name: 09-150-02
Misc Info :
Vial Number: 20





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

September 26, 2014

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-996
Laboratory Reference No. 1409-213

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2014.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 26, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-213
Project: 2007-098-996

Case Narrative

Samples were collected on September 15, 16, 17, 18, and 19, 2014 and received by the laboratory on September 23, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW11S					
Laboratory ID:	09-213-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW11S					
Laboratory ID:	09-213-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	0.30	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW11D					
Laboratory ID:	09-213-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW11D					
Laboratory ID:	09-213-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW12S					
Laboratory ID:	09-213-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW12S					
Laboratory ID:	09-213-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	0.25	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW12D					
Laboratory ID:	09-213-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW12D					
Laboratory ID:	09-213-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	0.31	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	09-213-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	09-213-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	0.22	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	09-213-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R					
Laboratory ID:	09-213-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	1.0	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW15					
Laboratory ID:	09-213-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW15					
Laboratory ID:	09-213-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	2.8	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW21					
Laboratory ID:	09-213-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	0.26	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	0.39	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	1.2	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW21					
Laboratory ID:	09-213-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	29	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW20					
Laboratory ID:	09-213-09					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	2.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	2.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	2.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	2.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	9.5	0.40	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	7.4	0.40	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW20					
Laboratory ID:	09-213-09					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	64	0.40	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	2.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW6					
Laboratory ID:	09-213-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW6					
Laboratory ID:	09-213-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	3.6	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW23					
Laboratory ID:	09-213-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW23					
Laboratory ID:	09-213-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	2.5	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW5					
Laboratory ID:	09-213-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	3.8	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	0.51	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	0.27	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW5					
Laboratory ID:	09-213-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	13	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW19					
Laboratory ID:	09-213-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	1.0	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	4.1	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	2.2	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	11	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	0.41	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	9.1	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW19					
Laboratory ID:	09-213-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	400	4.0	EPA 8260C	9-26-14	9-26-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW13S					
Laboratory ID:	09-213-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW13S					
Laboratory ID:	09-213-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	1.6	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW13D					
Laboratory ID:	09-213-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW13D					
Laboratory ID:	09-213-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	0.78	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW14S					
Laboratory ID:	09-213-16					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW14S					
Laboratory ID:	09-213-16					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	6.2	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW14D					
Laboratory ID:	09-213-17					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW14D					
Laboratory ID:	09-213-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	0.61	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP#1					
Laboratory ID:	09-213-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP#1					
Laboratory ID:	09-213-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	3.1	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB					
Laboratory ID:	09-213-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB					
Laboratory ID:	09-213-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB2					
Laboratory ID:	09-213-20					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	2.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	2.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	2.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	2.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB2					
Laboratory ID:	09-213-20					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	68	0.40	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	2.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI3					
Laboratory ID:	09-213-21					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	1.6	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	2.9	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	0.52	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI3					
Laboratory ID:	09-213-21					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	2.1	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW17					
Laboratory ID:	09-213-22					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW17					
Laboratory ID:	09-213-22					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	0.70	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW18					
Laboratory ID:	09-213-23					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	0.25	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW18					
Laboratory ID:	09-213-23					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	1.7	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	09-213-24					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	09-213-24					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	4.3	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW24					
Laboratory ID:	09-213-25					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW24					
Laboratory ID:	09-213-25					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	2.4	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW25					
Laboratory ID:	09-213-26					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	0.38	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW25					
Laboratory ID:	09-213-26					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	8.3	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW22					
Laboratory ID:	09-213-27					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW22					
Laboratory ID:	09-213-27					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	0.89	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW16					
Laboratory ID:	09-213-28					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW16					
Laboratory ID:	09-213-28					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	0.20	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW7					
Laboratory ID:	09-213-29					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	0.86	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW7					
Laboratory ID:	09-213-29					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	21	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB3					
Laboratory ID:	09-213-30					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB3					
Laboratory ID:	09-213-30					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	0.42	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW4					
Laboratory ID:	09-213-31					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloromethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Iodomethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroform	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Trichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW4					
Laboratory ID:	09-213-31					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Tetrachloroethene	0.26	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromoform	ND	1.3	EPA 8260C	9-26-14	9-26-14	
Bromobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromo-3-chloropropane	ND	1.5	EPA 8260C	9-26-14	9-26-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP#2					
Laboratory ID:	09-213-32					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloromethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Iodomethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroform	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Trichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP#2					
Laboratory ID:	09-213-32					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Tetrachloroethene	4.4	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromoform	ND	1.3	EPA 8260C	9-26-14	9-26-14	
Bromobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromo-3-chloropropane	ND	1.5	EPA 8260C	9-26-14	9-26-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB2					
Laboratory ID:	09-213-33					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloromethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Iodomethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroform	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Trichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB2					
Laboratory ID:	09-213-33					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromoform	ND	1.3	EPA 8260C	9-26-14	9-26-14	
Bromobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromo-3-chloropropane	ND	1.5	EPA 8260C	9-26-14	9-26-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0924W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloromethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Iodomethane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chloroform	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Trichloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromomethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-24-14	9-24-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-24-14	9-24-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0924W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Bromoform	ND	1.0	EPA 8260C	9-24-14	9-24-14	
Bromobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-24-14	9-24-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-24-14	9-24-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-24-14	9-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0925W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0925W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	1.0	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0926W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloromethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Iodomethane	ND	1.0	EPA 8260C	9-26-14	9-26-14	
Methylene Chloride	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chloroform	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Trichloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromomethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-26-14	9-26-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-14	9-26-14	

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0926W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Bromoform	ND	1.3	EPA 8260C	9-26-14	9-26-14	
Bromobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-26-14	9-26-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2-Dibromo-3-chloropropane	ND	1.5	EPA 8260C	9-26-14	9-26-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-14	9-26-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-120</i>				

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0924W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.0	10.2	10.0	10.0	110	102	63-142	8	17	
Benzene	10.2	9.47	10.0	10.0	102	95	78-125	7	15	
Trichloroethene	9.32	8.98	10.0	10.0	93	90	74-125	4	15	
Toluene	9.54	9.23	10.0	10.0	95	92	80-125	3	15	
Chlorobenzene	9.48	9.14	10.0	10.0	95	91	80-140	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					103	96	62-122			
Toluene-d8					102	103	70-120			
4-Bromofluorobenzene					98	98	71-120			

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0925W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.1	9.89	10.0	10.0	111	99	63-142	12	17	
Benzene	10.3	10.8	10.0	10.0	103	108	78-125	5	15	
Trichloroethene	9.16	9.13	10.0	10.0	92	91	74-125	0	15	
Toluene	9.39	9.72	10.0	10.0	94	97	80-125	3	15	
Chlorobenzene	9.45	9.53	10.0	10.0	95	95	80-140	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					100	101	62-122			
<i>Toluene-d8</i>					100	105	70-120			
<i>4-Bromofluorobenzene</i>					98	97	71-120			

Date of Report: September 26, 2014
 Samples Submitted: September 23, 2014
 Laboratory Reference: 1409-213
 Project: 2007-098-996

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	09-214-01									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	9.77	9.88	10.0	10.0	ND	98	99	57-133	1	15
Benzene	10.5	10.8	10.0	10.0	ND	105	108	75-117	3	15
Trichloroethene	9.52	9.63	10.0	10.0	ND	95	96	75-120	1	15
Toluene	10.1	10.2	10.0	10.0	ND	101	102	75-115	1	15
Chlorobenzene	9.68	9.81	10.0	10.0	ND	97	98	75-122	1	15
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>						<i>101</i>	<i>103</i>	<i>62-122</i>		
<i>Toluene-d8</i>						<i>103</i>	<i>102</i>	<i>70-120</i>		
<i>4-Bromofluorobenzene</i>						<i>100</i>	<i>100</i>	<i>71-120</i>		



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-naphthalene) 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



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

October 30, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1510-158

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 21, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

Case Narrative

Samples were collected on October 20, 2015 and received by the laboratory on October 21, 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.

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	10-158-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromomethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Iodomethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-21-15	10-21-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloroform	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Trichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Dibromomethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	10-21-15	10-21-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	10-158-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Tetrachloroethene	0.56	0.20	EPA 8260C	10-21-15	10-21-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromoform	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Bromobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	10-158-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromomethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Iodomethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-21-15	10-21-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
(cis) 1,2-Dichloroethene	0.35	0.20	EPA 8260C	10-21-15	10-21-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloroform	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Trichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Dibromomethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	10-21-15	10-21-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-17					
Laboratory ID:	10-158-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Tetrachloroethene	0.52	0.20	EPA 8260C	10-21-15	10-21-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromoform	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Bromobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	10-158-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Chloromethane	ND	5.0	EPA 8260C	10-21-15	10-21-15	
Vinyl Chloride	3.4	1.0	EPA 8260C	10-21-15	10-21-15	
Bromomethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Chloroethane	ND	5.0	EPA 8260C	10-21-15	10-21-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Iodomethane	ND	5.0	EPA 8260C	10-21-15	10-21-15	
Methylene Chloride	ND	5.0	EPA 8260C	10-21-15	10-21-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
(cis) 1,2-Dichloroethene	100	1.0	EPA 8260C	10-21-15	10-21-15	
Bromochloromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Chloroform	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Trichloroethene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Dibromomethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Bromodichloromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
2-Chloroethyl Vinyl Ether	ND	12	EPA 8260C	10-21-15	10-21-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-21-15	10-21-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	10-158-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Tetrachloroethene	1.2	1.0	EPA 8260C	10-21-15	10-21-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Dibromochloromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Chlorobenzene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Bromoform	ND	5.0	EPA 8260C	10-21-15	10-21-15	
Bromobenzene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	10-21-15	10-21-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	10-21-15	10-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1021W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloromethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromomethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloroethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Iodomethane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-21-15	10-21-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chloroform	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Trichloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Dibromomethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	10-21-15	10-21-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-21-15	10-21-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1021W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Bromoform	ND	1.0	EPA 8260C	10-21-15	10-21-15	
Bromobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-21-15	10-21-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-21-15	10-21-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-21-15	10-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1021W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.51	9.02	10.0	10.0	95	90	62-132	5	20	
Benzene	9.47	9.24	10.0	10.0	95	92	75-121	2	15	
Trichloroethene	9.45	8.95	10.0	10.0	95	90	65-115	5	15	
Toluene	9.69	9.26	10.0	10.0	97	93	78-116	5	15	
Chlorobenzene	9.50	9.00	10.0	10.0	95	90	77-118	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	101	71-131			
<i>Toluene-d8</i>					98	100	80-120			
<i>4-Bromofluorobenzene</i>					95	97	80-120			

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	10-158-03					
Methane	4000	250	RSK 175	10-27-15	10-27-15	
Ethane	ND	250	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Methane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1027W1									
	SB	SBD	SB	SBD		SB	SBD			
Methane	4.10	4.16	4.42	4.42	N/A	93	94	75-125	1	25
Ethane	7.70	7.81	8.32	8.32	N/A	93	94	75-125	1	25
Ethene	7.73	8.16	7.77	7.77	N/A	99	105	75-125	5	25

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	10-158-03					
Total Organic Carbon	21	1.0	SM 5310B	10-27-15	10-27-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-15	10-27-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-158-03							
	ORIG	DUP						
Total Organic Carbon	20.6	21.1	NA	NA	NA	2	15	

MATRIX SPIKE

Laboratory ID:	10-158-03							
	MS	MS		MS				
Total Organic Carbon	31.0	10.0	20.6	104	85-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1027W1							
	SB	SB		SB				
Total Organic Carbon	10.4	10.0	NA	104	86-115	NA	NA	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	10-158-03					
Nitrate	1.2	0.050	EPA 353.2	10-22-15	10-22-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1022W1					
Nitrate	ND	0.050	EPA 353.2	10-22-15	10-22-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-171-06							
	ORIG	DUP						
Nitrate	3.10	3.12	NA	NA	NA	1	12	

MATRIX SPIKE								
Laboratory ID:	10-171-06							
	MS	MS		MS				
Nitrate	7.48	4.00	3.10	110	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1022W1							
	SB	SB		SB				
Nitrate	1.95	2.00	NA	98	96-119	NA	NA	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-18					
Laboratory ID:	10-158-03					
Sulfate	13	10	ASTM D516-07	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 21, 2015
 Laboratory Reference: 1510-158
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1026W1					
Sulfate	ND	5.0	ASTM D516-07	10-26-15	10-26-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-180-02							
	ORIG	DUP						
Sulfate	9.36	9.64	NA	NA	NA	3	9	

MATRIX SPIKE								
Laboratory ID:	10-180-02							
	MS	MS		MS				
Sulfate	18.5	10.0	9.36	91	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1026W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	86-116	NA	NA	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C**

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-158-03					
Client ID:	UCCMW-18					
Sodium	19000	1100	6010C	10-26-15	10-26-15	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-26-15
Date Analyzed: 10-26-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1026WM1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-26-15

Date Analyzed: 10-26-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-171-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	10400	10300	1	1100	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-26-15

Date Analyzed: 10-26-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-171-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	30900	93	31000	93	0	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

DISSOLVED SODIUM
EPA 6010C

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-158-03					
Client ID:	UCCMW-18					
Sodium	18000	1100	6010C		10-22-15	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 10-22-15
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB1022D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 10-22-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-158-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	17500	17900	2	1100	

Date of Report: October 30, 2015
Samples Submitted: October 21, 2015
Laboratory Reference: 1510-158
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 10-22-15
Matrix: Water
Units: ug/L (ppb)
Lab ID: 10-158-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	41600	108	40500	104	3	



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-naphthalene) 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



MVA OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (T/PH analysis 5 Days)

(other) _____

Laboratory Number: 10-158

Company: **HWA Geosciences**
 Project Number: **2007-098-22**
 Project Name: **Ultra Custom Cleaners**
 Project Manager: **Jeff Thompson**
 Sampled by: **Amyin York**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UCC MW-16	10-20-15	1342	Water
2	UCC MW-17	↓	1429	↓
3	UCC MW-18	10-20-15	1519	Water

Number of Containers	Laboratory Number: 10-158																						
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Methane/ethene/ethane	Total organic carbon	Nitrate	Sulfate	Total + Dissolved Sodium	% Moisture	
3						X																	
↓						X																	
9						X												X	X	X	X		

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	HWA	10-20-15	1713	Dissolved Sodium was field filtered
<i>[Signature]</i>	Speedy mgr	10-21-15	9:35	
<i>[Signature]</i>	Speedy	10/21/15	10:00	
<i>[Signature]</i>	ADJE	10/21/15	10:00	

Received/Date _____

Received _____

Relinquished _____

Relinquished _____

Received _____

Relinquished _____

Received _____

Relinquished _____

Reviewed/Date _____

Reviewed/Date _____

Chromatograms with final report

Data Package: Standard Level III Level IV

Electronic Data Deliverables (EDDs)



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

October 30, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1510-171

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 22, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 30, 2015
Samples Submitted: October 22, 2015
Laboratory Reference: 1510-171
Project: 2007-098-22

Case Narrative

Samples were collected on October 21, 2015 and received by the laboratory on October 22, 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.

Sulfate ASTM D516-07 Analysis

Samples MW-1, UCCMW-19 and UCCDUP-102115 (10-171-02,03, and 09) PQL's were increased due to sample interference.

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.

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-9					
Laboratory ID:	10-171-01					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	10	2.0	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	10	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	400	2.0	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	27	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-9					
Laboratory ID:	10-171-01					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	10	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	13	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	2.5	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	2.0	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	2.9	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	10-171-02					
Dichlorodifluoromethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	50	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	21	10	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	50	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	10	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	10	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	50	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	50	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	10	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	10	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	1600	10	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	10	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	10	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	10	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	10	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	140	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	10-171-02					
1,1,2-Trichloroethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	10	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	10	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	50	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	10	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	65	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	13	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	10	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	15	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	10-171-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	37	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-19					
Laboratory ID:	10-171-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	10-171-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-4					
Laboratory ID:	10-171-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	0.50	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	10-171-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	1.1	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	0.70	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	10-171-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	19	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	10-171-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	0.65	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	10-171-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	24	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	10-171-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	7.3	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	2.9	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-8					
Laboratory ID:	10-171-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	36	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	10-171-08					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	10	0.40	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	2.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	69	0.40	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	1.1	0.40	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	5.4	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-26					
Laboratory ID:	10-171-08					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	1.5	0.40	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	2.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	2.6	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.50	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.40	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.58	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCDUP-102115					
Laboratory ID:	10-171-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	41	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCDUP-102115					
Laboratory ID:	10-171-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	10-171-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	10-171-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1023W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloromethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Iodomethane	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-23-15	10-23-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chloroform	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Trichloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromomethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	10-23-15	10-23-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1023W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
Bromoform	ND	1.0	EPA 8260C	10-23-15	10-23-15	
Bromobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-23-15	10-23-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	10-23-15	10-23-15	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	10-23-15	10-23-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-23-15	10-23-15	
1,2,3-Trichlorobenzene	ND	0.29	EPA 8260C	10-23-15	10-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1023W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.61	9.30	10.0	10.0	96	93	62-132	3	20	
Benzene	9.64	9.48	10.0	10.0	96	95	75-121	2	15	
Trichloroethene	9.52	8.90	10.0	10.0	95	89	65-115	7	15	
Toluene	9.81	9.46	10.0	10.0	98	95	78-116	4	15	
Chlorobenzene	9.47	9.01	10.0	10.0	95	90	77-118	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					96	103	71-131			
Toluene-d8					100	99	80-120			
4-Bromofluorobenzene					92	95	80-120			

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	10-171-02					
Total Organic Carbon	320	1.0	SM 5310B	10-27-15	10-27-15	
Client ID:	UCCMW-19					
Laboratory ID:	10-171-03					
Total Organic Carbon	65	1.0	SM 5310B	10-27-15	10-27-15	
Client ID:	UCCMW-7					
Laboratory ID:	10-171-06					
Total Organic Carbon	7.8	1.0	SM 5310B	10-27-15	10-27-15	
Client ID:	UCCMW-8					
Laboratory ID:	10-171-07					
Total Organic Carbon	1.8	1.0	SM 5310B	10-27-15	10-27-15	
Client ID:	UCCMW-26					
Laboratory ID:	10-171-08					
Total Organic Carbon	26	1.0	SM 5310B	10-27-15	10-27-15	
Client ID:	UCCDUP-102115					
Laboratory ID:	10-171-09					
Total Organic Carbon	66	1.0	SM 5310B	10-27-15	10-27-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-15	10-27-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-158-03							
	ORIG	DUP						
Total Organic Carbon	20.6	21.1	NA	NA	NA	2	15	

MATRIX SPIKE

Laboratory ID:	10-158-03							
	MS	MS		MS				
Total Organic Carbon	31.0	10.0	20.6	104	85-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1027W1							
	SB	SB		SB				
Total Organic Carbon	10.4	10.0	NA	104	86-115	NA	NA	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	10-171-02					
Nitrate	0.27	0.050	EPA 353.2	10-22-15	10-22-15	

Client ID:	UCCMW-19					
Laboratory ID:	10-171-03					
Nitrate	0.078	0.050	EPA 353.2	10-22-15	10-22-15	

Client ID:	UCCMW-7					
Laboratory ID:	10-171-06					
Nitrate	3.1	0.10	EPA 353.2	10-22-15	10-22-15	

Client ID:	UCCMW-8					
Laboratory ID:	10-171-07					
Nitrate	0.71	0.050	EPA 353.2	10-22-15	10-22-15	

Client ID:	UCCMW-26					
Laboratory ID:	10-171-08					
Nitrate	0.18	0.050	EPA 353.2	10-22-15	10-22-15	

Client ID:	UCCDUP-102115					
Laboratory ID:	10-171-09					
Nitrate	0.069	0.050	EPA 353.2	10-22-15	10-22-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1022W1					
Nitrate	ND	0.050	EPA 353.2	10-22-15	10-22-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-171-06							
	ORIG	DUP						
Nitrate	3.10	3.12	NA	NA	NA	1	12	

MATRIX SPIKE								
Laboratory ID:	10-171-06							
	MS	MS		MS				
Nitrate	7.48	4.00	3.10	110	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1022W1							
	SB	SB		SB				
Nitrate	1.95	2.00	NA	98	96-119	NA	NA	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	10-171-02					
Sulfate	ND	25	ASTM D516-07	10-26-15	10-26-15	

Client ID:	UCCMW-19					
Laboratory ID:	10-171-03					
Sulfate	ND	10	ASTM D516-07	10-26-15	10-26-15	

Client ID:	UCCMW-7					
Laboratory ID:	10-171-06					
Sulfate	65	25	ASTM D516-07	10-26-15	10-26-15	

Client ID:	UCCMW-8					
Laboratory ID:	10-171-07					
Sulfate	16	5.0	ASTM D516-07	10-26-15	10-26-15	

Client ID:	UCCMW-26					
Laboratory ID:	10-171-08					
Sulfate	ND	5.0	ASTM D516-07	10-26-15	10-26-15	

Client ID:	UCCDUP-102115					
Laboratory ID:	10-171-09					
Sulfate	ND	10	ASTM D516-07	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1026W1					
Sulfate	ND	5.0	ASTM D516-07	10-26-15	10-26-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-180-02							
	ORIG	DUP						
Sulfate	9.36	9.64	NA	NA	NA	3	9	

MATRIX SPIKE								
Laboratory ID:	10-180-02							
	MS	MS		MS				
Sulfate	18.5	10.0	9.36	91	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1026W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	86-116	NA	NA	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-171-02					
Client ID:	MW-1					
Sodium	59000	1100	6010C	10-26-15	10-26-15	
Lab ID:	10-171-03					
Client ID:	UCCMW-19					
Sodium	20000	1100	6010C	10-26-15	10-26-15	
Lab ID:	10-171-06					
Client ID:	UCCMW-7					
Sodium	10000	1100	6010C	10-26-15	10-26-15	
Lab ID:	10-171-07					
Client ID:	UCCMW-8					
Sodium	12000	1100	6010C	10-26-15	10-26-15	
Lab ID:	10-171-08					
Client ID:	UCCMW-26					
Sodium	18000	1100	6010C	10-26-15	10-26-15	
Lab ID:	10-171-09					
Client ID:	UCCDUP-102115					
Sodium	20000	1100	6010C	10-26-15	10-26-15	

Date of Report: October 30, 2015
Samples Submitted: October 22, 2015
Laboratory Reference: 1510-171
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-26-15
Date Analyzed: 10-26-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1026WM1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: October 30, 2015
Samples Submitted: October 22, 2015
Laboratory Reference: 1510-171
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-26-15
Date Analyzed: 10-26-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-171-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	10400	10300	1	1100	

Date of Report: October 30, 2015
Samples Submitted: October 22, 2015
Laboratory Reference: 1510-171
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-26-15

Date Analyzed: 10-26-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-171-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	30900	93	31000	93	0	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-171-02					
Client ID:	MW-1					
Sodium	61000	1100	6010C		10-22-15	
Lab ID:	10-171-03					
Client ID:	UCCMW-19					
Sodium	20000	1100	6010C		10-22-15	
Lab ID:	10-171-06					
Client ID:	UCCMW-7					
Sodium	11000	1100	6010C		10-22-15	
Lab ID:	10-171-07					
Client ID:	UCCMW-8					
Sodium	12000	1100	6010C		10-22-15	
Lab ID:	10-171-08					
Client ID:	UCCMW-26					
Sodium	19000	1100	6010C		10-22-15	
Lab ID:	10-171-09					
Client ID:	UCCDUP-102115					
Sodium	20000	1100	6010C		10-22-15	

Date of Report: October 30, 2015
Samples Submitted: October 22, 2015
Laboratory Reference: 1510-171
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 10-22-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1022D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: October 30, 2015
Samples Submitted: October 22, 2015
Laboratory Reference: 1510-171
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 10-22-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-158-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	17500	17900	2	1100	

Date of Report: October 30, 2015
Samples Submitted: October 22, 2015
Laboratory Reference: 1510-171
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 10-22-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-158-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	41600	108	40500	104	3	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	10-171-02					
Methane	7700	500	RSK 175	10-27-15	10-27-15	
Ethane	ND	500	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Client ID:	UCCMW-19					
Laboratory ID:	10-171-03					
Methane	65	5.0	RSK 175	10-27-15	10-27-15	
Ethane	ND	5.0	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Client ID:	UCCMW-7					
Laboratory ID:	10-171-06					
Methane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Client ID:	UCCMW-8					
Laboratory ID:	10-171-07					
Methane	110	10	RSK 175	10-27-15	10-27-15	
Ethane	ND	10	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Client ID:	UCCMW-26					
Laboratory ID:	10-171-08					
Methane	21000	1000	RSK 175	10-27-15	10-27-15	
Ethane	ND	1000	RSK 175	10-27-15	10-27-15	
Ethene	ND	5.0	RSK 175	10-27-15	10-27-15	

Client ID:	UCCDUP-102115					
Laboratory ID:	10-171-09					
Methane	75	5.0	RSK 175	10-27-15	10-27-15	
Ethane	ND	5.0	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Date of Report: October 30, 2015
 Samples Submitted: October 22, 2015
 Laboratory Reference: 1510-171
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Methane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1027W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.10	4.16	4.42	4.42	N/A	93	94	75-125	1	25	
Ethane	7.70	7.81	8.32	8.32	N/A	93	94	75-125	1	25	
Ethene	7.73	8.16	7.77	7.77	N/A	99	105	75-125	5	25	



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-naphthalene) 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



Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other) _____

Laboratory Number: **10-171**

Company: **HWA Geosciences**

Project Number: **2007-098.22**

Project Name: **Ultra Clean Cleaners**

Project Manager: **Jeff Thompson**

Sampled by: **Austin York**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Total Organic Carbon	Nitrate	Sulfate	Total + Dissolved Nat	Methane/Ethane/Ether	% Moisture	
1	INS-9	10-21-15	0905	Water	3						X																	
2	MW-1		0934		9																		X	X	X	X	X	
3	UECMW-19		1044		8																		X	X	X	X	X	
4	UECMW-4		1217		3																							
5	UECMW-5		1308		3																							
6	UECMW-7		1357		9																		X	X	X	X	X	
7	UECMW-8		1522		9																		X	X	X	X	X	
8	UECMW-26		1619		9																		X	X	X	X	X	
9	UECDUP-102115				9																		X	X	X	X	X	
10	Tip Blank	10-21-15			3						X																	

Signature: *Austin York*

Company: **HWA**

Date: **10-21-15**

Time: **1730**

Comments/Special Instructions:
 Dissolved samples field filtered
 - 2 vials broke from UECMW-19, pull from
 3 HVOC vials if necessary

Received: *[Signature]*

Received: *[Signature]*

Received: *[Signature]*

Reviewed/Date: _____

Chromatograms with final report



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

October 30, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-98-22
Laboratory Reference No. 1510-180

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 23, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

Case Narrative

Samples were collected on October 22, 2015 and received by the laboratory on October 23, 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.

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-27					
Laboratory ID:	10-180-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloromethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Iodomethane	ND	1.6	EPA 8260C	10-26-15	10-26-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-26-15	10-26-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(cis) 1,2-Dichloroethene	0.54	0.20	EPA 8260C	10-26-15	10-26-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroform	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Trichloroethene	0.53	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	10-26-15	10-26-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-27					
Laboratory ID:	10-180-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Tetrachloroethene	6.6	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromoform	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Bromobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	10-180-02					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Chloromethane	ND	2.0	EPA 8260C	10-26-15	10-26-15	
Vinyl Chloride	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Bromomethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Chloroethane	ND	2.0	EPA 8260C	10-26-15	10-26-15	
Trichlorofluoromethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Iodomethane	ND	3.2	EPA 8260C	10-26-15	10-26-15	
Methylene Chloride	ND	2.0	EPA 8260C	10-26-15	10-26-15	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
2,2-Dichloropropane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Bromochloromethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Chloroform	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Carbon Tetrachloride	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloropropene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloroethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Trichloroethene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloropropane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Dibromomethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Bromodichloromethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
2-Chloroethyl Vinyl Ether	ND	4.0	EPA 8260C	10-26-15	10-26-15	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	10-180-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Tetrachloroethene	57	0.40	EPA 8260C	10-26-15	10-26-15	
1,3-Dichloropropane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Dibromochloromethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromoethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Chlorobenzene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Bromoform	ND	2.0	EPA 8260C	10-26-15	10-26-15	
Bromobenzene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	10-26-15	10-26-15	
2-Chlorotoluene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
4-Chlorotoluene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	10-26-15	10-26-15	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
Hexachlorobutadiene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	10-26-15	10-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI-3					
Laboratory ID:	10-180-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloromethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Vinyl Chloride	0.96	0.20	EPA 8260C	10-26-15	10-26-15	
Bromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Iodomethane	ND	1.6	EPA 8260C	10-26-15	10-26-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-26-15	10-26-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(cis) 1,2-Dichloroethene	1.0	0.20	EPA 8260C	10-26-15	10-26-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroform	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Trichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	10-26-15	10-26-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BI-3					
Laboratory ID:	10-180-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Tetrachloroethene	0.52	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromoform	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Bromobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	10-180-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloromethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Iodomethane	ND	1.6	EPA 8260C	10-26-15	10-26-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-26-15	10-26-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroform	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Trichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	10-26-15	10-26-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	10-180-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromoform	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Bromobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1026W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloromethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroethane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Iodomethane	ND	1.6	EPA 8260C	10-26-15	10-26-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-26-15	10-26-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chloroform	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Trichloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromomethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	10-26-15	10-26-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1026W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Bromoform	ND	1.0	EPA 8260C	10-26-15	10-26-15	
Bromobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-26-15	10-26-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-26-15	10-26-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-26-15	10-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1026W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.0	9.34	10.0	10.0	100	93	62-132	6	20	
Benzene	9.93	9.50	10.0	10.0	99	95	75-121	4	15	
Trichloroethene	9.60	8.95	10.0	10.0	96	90	65-115	7	15	
Toluene	10.1	9.57	10.0	10.0	101	96	78-116	5	15	
Chlorobenzene	9.80	9.05	10.0	10.0	98	91	77-118	8	15	
<i>Surrogate:</i>										
Dibromofluoromethane					100	104	71-131			
Toluene-d8					100	100	80-120			
4-Bromofluorobenzene					95	96	80-120			

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	10-180-02					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-15	10-27-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-15	10-27-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-158-03							
	ORIG	DUP						
Total Organic Carbon	20.6	21.1	NA	NA	NA	2	15	

MATRIX SPIKE

Laboratory ID:	10-158-03							
	MS	MS		MS				
Total Organic Carbon	31.0	10.0	20.6	104	85-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1027W1							
	SB	SB		SB				
Total Organic Carbon	10.4	10.0	NA	104	86-115	NA	NA	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	10-180-02					
Methane	2.7	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Methane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1027W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.10	4.16	4.42	4.42	N/A	93	94	75-125	1	25	
Ethane	7.70	7.81	8.32	8.32	N/A	93	94	75-125	1	25	
Ethene	7.73	8.16	7.77	7.77	N/A	99	105	75-125	5	25	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	10-180-02					
Nitrate	3.0	0.10	EPA 353.2	10-23-15	10-23-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1023W1					
Nitrate	ND	0.050	EPA 353.2	10-23-15	10-23-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-180-02							
	ORIG	DUP						
Nitrate	3.01	3.05	NA	NA	NA	1	12	

MATRIX SPIKE								
Laboratory ID:	10-180-02							
	MS	MS		MS				
Nitrate	7.29	4.00	3.01	107	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1023W1							
	SB	SB		SB				
Nitrate	2.17	2.00	NA	109	96-119	NA	NA	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	10-180-02					
Sulfate	9.4	5.0	ASTM D516-07	10-26-15	10-26-15	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1026W1					
Sulfate	ND	5.0	ASTM D516-07	10-26-15	10-26-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-180-02							
	ORIG	DUP						
Sulfate	9.36	9.64	NA	NA	NA	3	9	

MATRIX SPIKE								
Laboratory ID:	10-180-02							
	MS	MS		MS				
Sulfate	18.5	10.0	9.36	91	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1026W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	86-116	NA	NA	

Date of Report: October 30, 2015
 Samples Submitted: October 23, 2015
 Laboratory Reference: 1510-180
 Project: 2007-98-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-180-02					
Client ID:	BB-2					
Sodium	13000	1100	6010C	10-26-15	10-26-15	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-26-15
Date Analyzed: 10-26-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1026WM1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-26-15

Date Analyzed: 10-26-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-171-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	10400	10300	1	1100	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-26-15

Date Analyzed: 10-26-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-171-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	30900	93	31000	93	0	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**DISSOLVED SODIUM
EPA 6010C**

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-180-02					
Client ID:	BB-2					
Sodium	14000	1100	6010C		10-26-15	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 10-26-15
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB1026D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 10-26-15
Matrix: Water
Units: ug/L (ppb)
Lab ID: 10-180-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	13600	13800	2	1100	

Date of Report: October 30, 2015
Samples Submitted: October 23, 2015
Laboratory Reference: 1510-180
Project: 2007-98-22

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 10-26-15
Matrix: Water
Units: ug/L (ppb)
Lab ID: 10-180-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	37700	109	38000	110	1	



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-naphthalene) 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



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

November 4, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-98-22
Laboratory Reference No. 1510-205

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 27, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: November 4, 2015
Samples Submitted: October 27, 2015
Laboratory Reference: 1510-205
Project: 2007-98-22

Case Narrative

Samples were collected on October 26, 2015 and received by the laboratory on October 27, 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.

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	10-205-04					
Benzene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
Toluene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
Ethyl Benzene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
m,p-Xylene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
o-Xylene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
Gasoline	ND	100	NWTPH-Gx	10-28-15	10-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	71-111				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1028W1					
Benzene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
Toluene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
Ethyl Benzene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
m,p-Xylene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
o-Xylene	ND	1.0	EPA 8021B	10-28-15	10-28-15	
Gasoline	ND	100	NWTPH-Gx	10-28-15	10-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	71-111				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-192-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				84	89	71-111		

SPIKE BLANKS

Laboratory ID:	SB1028W1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	49.6	51.2	50.0	50.0	99	102	83-119	3	13
Toluene	48.1	49.8	50.0	50.0	96	100	83-120	3	13
Ethyl Benzene	49.3	50.7	50.0	50.0	99	101	82-120	3	12
m,p-Xylene	47.1	48.6	50.0	50.0	94	97	80-122	3	13
o-Xylene	48.6	50.3	50.0	50.0	97	101	80-120	3	10
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					82	82	71-111		

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	10-205-04					
Diesel Range Organics	ND	0.25	NWTPH-Dx	10-30-15	10-30-15	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	10-30-15	10-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>102</i>	<i>50-150</i>				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1030W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	10-30-15	10-30-15	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	10-30-15	10-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-205-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			102	61	50-150			

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	10-205-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloromethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Iodomethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-15	10-27-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroform	0.30	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Trichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	10-27-15	10-27-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	10-205-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Tetrachloroethene	13	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromoform	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Bromobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	10-205-02					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Chloromethane	ND	2.0	EPA 8260C	10-27-15	10-27-15	
Vinyl Chloride	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Bromomethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Chloroethane	ND	2.0	EPA 8260C	10-27-15	10-27-15	
Trichlorofluoromethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Iodomethane	ND	2.0	EPA 8260C	10-27-15	10-27-15	
Methylene Chloride	ND	2.0	EPA 8260C	10-27-15	10-27-15	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
2,2-Dichloropropane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
(cis) 1,2-Dichloroethene	56	0.40	EPA 8260C	10-27-15	10-27-15	
Bromochloromethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Chloroform	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Carbon Tetrachloride	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloropropene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloroethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Trichloroethene	2.6	0.40	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloropropane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Dibromomethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Bromodichloromethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
2-Chloroethyl Vinyl Ether	ND	4.8	EPA 8260C	10-27-15	10-27-15	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	10-205-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Tetrachloroethene	8.6	0.40	EPA 8260C	10-27-15	10-27-15	
1,3-Dichloropropane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Dibromochloromethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromoethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Chlorobenzene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Bromoform	ND	2.0	EPA 8260C	10-27-15	10-27-15	
Bromobenzene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	10-27-15	10-27-15	
2-Chlorotoluene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
4-Chlorotoluene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	10-27-15	10-27-15	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
Hexachlorobutadiene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	10-27-15	10-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-120</i>				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	10-205-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloromethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Iodomethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-15	10-27-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroform	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Trichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	10-27-15	10-27-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	10-205-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Tetrachloroethene	9.6	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromoform	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Bromobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	10-205-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloromethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Iodomethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-15	10-27-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroform	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Trichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	10-27-15	10-27-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-10					
Laboratory ID:	10-205-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Tetrachloroethene	3.0	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromoform	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Bromobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	10-205-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloromethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Iodomethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-15	10-27-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroform	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Trichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	10-27-15	10-27-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	10-205-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromoform	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Bromobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-120</i>				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1027W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloromethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Iodomethane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-15	10-27-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chloroform	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Trichloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromomethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	10-27-15	10-27-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1027W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Tetrachloroethene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Bromoform	ND	1.0	EPA 8260C	10-27-15	10-27-15	
Bromobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-15	10-27-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-15	10-27-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-15	10-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-120</i>				

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1027W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.69	9.10	10.0	10.0	97	91	62-132	6	20	
Benzene	9.71	9.50	10.0	10.0	97	95	75-121	2	15	
Trichloroethene	9.54	8.92	10.0	10.0	95	89	65-115	7	15	
Toluene	9.92	9.46	10.0	10.0	99	95	78-116	5	15	
Chlorobenzene	9.31	9.10	10.0	10.0	93	91	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	105	71-131			
<i>Toluene-d8</i>					101	101	80-120			
<i>4-Bromofluorobenzene</i>					92	95	80-120			

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	10-205-01					
Total Organic Carbon	4.3	1.0	SM 5310B	10-27-15	10-27-15	

Client ID:	UCCMW-20					
Laboratory ID:	10-205-02					
Total Organic Carbon	11	1.0	SM 5310B	10-27-15	10-27-15	

Client ID:	UCCMW-25					
Laboratory ID:	10-205-03					
Total Organic Carbon	3.7	1.0	SM 5310B	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-15	10-27-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-158-03							
	ORIG	DUP						
Total Organic Carbon	20.6	21.1	NA	NA	NA	NA	2	15

MATRIX SPIKE

Laboratory ID:	10-158-03							
	MS	MS		MS				
Total Organic Carbon	31.0	10.0	20.6	104	85-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1027W1							
	SB	SB		SB				
Total Organic Carbon	10.4	10.0	NA	104	86-115	NA	NA	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	10-205-01					
Methane	2.3	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Client ID:	UCCMW-20					
Laboratory ID:	10-205-02					
Methane	37	5.0	RSK 175	10-27-15	10-27-15	
Ethane	5.6	5.0	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Client ID:	UCCMW-25					
Laboratory ID:	10-205-03					
Methane	0.84	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Methane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethane	ND	0.50	RSK 175	10-27-15	10-27-15	
Ethene	ND	0.50	RSK 175	10-27-15	10-27-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1027W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.10	4.16	4.42	4.42	N/A	93	94	75-125	1	25	
Ethane	7.70	7.81	8.32	8.32	N/A	93	94	75-125	1	25	
Ethene	7.73	8.16	7.77	7.77	N/A	99	105	75-125	5	25	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	10-205-01					
Nitrate	2.5	0.050	EPA 353.2	10-30-15	10-30-15	

Client ID:	UCCMW-20					
Laboratory ID:	10-205-02					
Nitrate	0.076	0.050	EPA 353.2	10-30-15	10-30-15	

Client ID:	UCCMW-25					
Laboratory ID:	10-205-03					
Nitrate	1.8	0.050	EPA 353.2	10-30-15	10-30-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1030W1					
Nitrate	ND	0.050	EPA 353.2	10-30-15	10-30-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-205-02							
	ORIG	DUP						
Nitrate	0.0762	0.0792	NA	NA	NA	4	12	

MATRIX SPIKE								
Laboratory ID:	10-205-02							
	MS	MS		MS				
Nitrate	2.25	2.00	0.0762	109	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1030W1							
	SB	SB		SB				
Nitrate	2.18	2.00	NA	109	96-119	NA	NA	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	10-205-01					
Sulfate	45	25	ASTM D516-07	10-29-15	10-29-15	

Client ID:	UCCMW-20					
Laboratory ID:	10-205-02					
Sulfate	ND	5.0	ASTM D516-07	10-29-15	10-29-15	

Client ID:	UCCMW-25					
Laboratory ID:	10-205-03					
Sulfate	23	5.0	ASTM D516-07	10-29-15	10-29-15	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1029W1					
Sulfate	ND	5.0	ASTM D516-07	10-29-15	10-29-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-205-01							
	ORIG	DUP						
Sulfate	44.8	42.6	NA	NA	NA	5	9	

MATRIX SPIKE								
Laboratory ID:	10-205-01							
	MS	MS		MS				
Sulfate	93.9	50.0	44.8	98	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1029W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	86-116	NA	NA	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-205-01					
Client ID:	UCCMW-21					
Sodium	22000	1100	6010C	10-30-15	10-30-15	
Lab ID:	10-205-02					
Client ID:	UCCMW-20					
Sodium	25000	1100	6010C	10-30-15	10-30-15	
Lab ID:	10-205-03					
Client ID:	UCCMW-25					
Sodium	28000	1100	6010C	10-30-15	10-30-15	

Date of Report: November 4, 2015
Samples Submitted: October 27, 2015
Laboratory Reference: 1510-205
Project: 2007-98-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-30-15
Date Analyzed: 10-30-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1030WM1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: November 4, 2015
Samples Submitted: October 27, 2015
Laboratory Reference: 1510-205
Project: 2007-98-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-30-15

Date Analyzed: 10-30-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-205-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	22100	22400	2	1100	

Date of Report: November 4, 2015
Samples Submitted: October 27, 2015
Laboratory Reference: 1510-205
Project: 2007-98-22

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-30-15

Date Analyzed: 10-30-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-205-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	46600	110	45500	105	3	

Date of Report: November 4, 2015
 Samples Submitted: October 27, 2015
 Laboratory Reference: 1510-205
 Project: 2007-98-22

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-205-01					
Client ID:	UCCMW-21					
Sodium	21000	1100	6010C		10-30-15	
Lab ID:	10-205-02					
Client ID:	UCCMW-20					
Sodium	26000	1100	6010C		10-30-15	
Lab ID:	10-205-03					
Client ID:	UCCMW-25					
Sodium	28000	1100	6010C		10-30-15	

Date of Report: November 4, 2015
Samples Submitted: October 27, 2015
Laboratory Reference: 1510-205
Project: 2007-98-22

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 10-30-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1030D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100

Date of Report: November 4, 2015
Samples Submitted: October 27, 2015
Laboratory Reference: 1510-205
Project: 2007-98-22

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 10-30-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-205-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	21300	21700	2	1100	

Date of Report: November 4, 2015
Samples Submitted: October 27, 2015
Laboratory Reference: 1510-205
Project: 2007-98-22

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 10-30-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-205-01

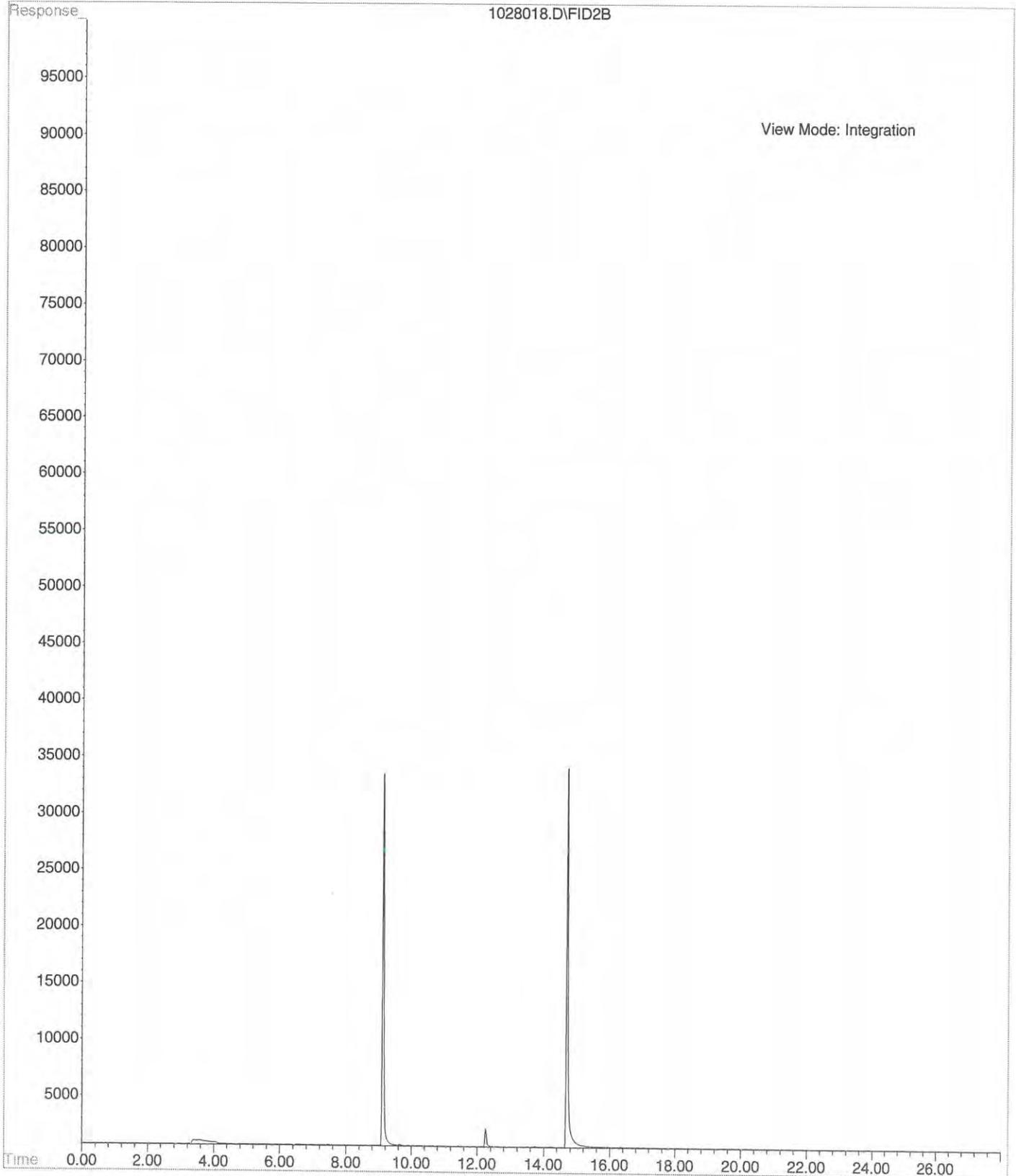
Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	46300	112	46700	115	1	



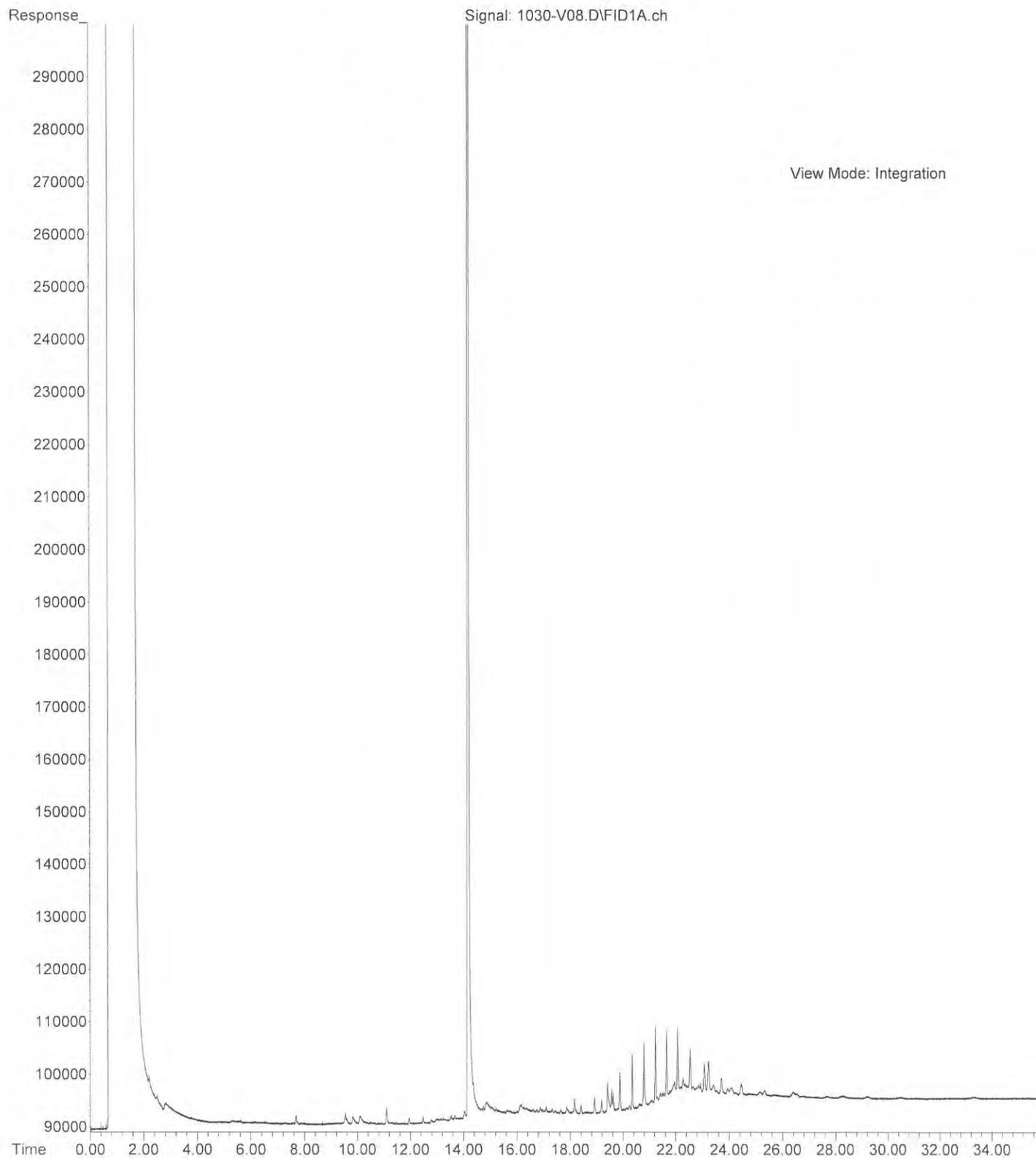
Data Qualifiers and Abbreviations

- 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-naphthalene) 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

File : X:\BTEX\HOPE\DATA\H151028\1028018.D
Operator :
Acquired : 28 Oct 2015 21:15 using AcqMethod 150908B.M
Instrument : Hope
Sample Name: 10-205-04c
Misc Info : V2-37-21
Vial Number: 18



File :X:\DIESELS\VIGO\DATA\V151030\1030-V08.D
Operator :
Acquired : 30 Oct 2015 16:02 using AcqMethod V151007F.M
Instrument : Vigo
Sample Name: 10-205-04
Misc Info :
Vial Number: 8





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

November 22, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T-998
Laboratory Reference No. 1611-125

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 11, 2016.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

Case Narrative

Samples were collected on November 10, 2016 and received by the laboratory on November 11, 2016. 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.

Nitrate EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis

Sulfate ASTM D516-07 Analysis

Samples UCCMW-18 & UCCMW-19 (11-125-04, 05) PQL's were increased due to sample interference.

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.



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-9					
Laboratory ID:	11-125-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloromethane	ND	1.5	EPA 8260C	11-11-16	11-11-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Iodomethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-16	11-11-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroform	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Trichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chloroethyl Vinyl Ether	ND	3.4	EPA 8260C	11-11-16	11-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-9					
Laboratory ID:	11-125-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromoform	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Bromobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-11-16	11-11-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-10					
Laboratory ID:	11-125-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloromethane	ND	1.5	EPA 8260C	11-11-16	11-11-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Iodomethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-16	11-11-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroform	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Trichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chloroethyl Vinyl Ether	ND	3.4	EPA 8260C	11-11-16	11-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BLMW-10					
Laboratory ID:	11-125-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromoform	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Bromobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-11-16	11-11-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-17					
Laboratory ID:	11-125-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloromethane	ND	1.5	EPA 8260C	11-11-16	11-11-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Iodomethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-16	11-11-16	
(trans) 1,2-Dichloroethene	0.32	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(cis) 1,2-Dichloroethene	44	0.20	EPA 8260C	11-11-16	11-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroform	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Trichloroethene	3.6	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chloroethyl Vinyl Ether	ND	3.4	EPA 8260C	11-11-16	11-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-17					
Laboratory ID:	11-125-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Tetrachloroethene	35	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromoform	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Bromobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-11-16	11-11-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	11-125-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloromethane	ND	1.5	EPA 8260C	11-11-16	11-11-16	
Vinyl Chloride	8.7	0.20	EPA 8260C	11-11-16	11-11-16	
Bromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Iodomethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-16	11-11-16	
(trans) 1,2-Dichloroethene	2.8	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(cis) 1,2-Dichloroethene	15	0.20	EPA 8260C	11-11-16	11-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroform	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Trichloroethene	2.0	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chloroethyl Vinyl Ether	ND	3.4	EPA 8260C	11-11-16	11-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	11-125-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Tetrachloroethene	42	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromoform	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Bromobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-11-16	11-11-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-19					
Laboratory ID:	11-125-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloromethane	ND	1.5	EPA 8260C	11-11-16	11-11-16	
Vinyl Chloride	19	0.20	EPA 8260C	11-11-16	11-11-16	
Bromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Iodomethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-16	11-11-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(cis) 1,2-Dichloroethene	29	0.20	EPA 8260C	11-11-16	11-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroform	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Trichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chloroethyl Vinyl Ether	ND	3.4	EPA 8260C	11-11-16	11-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-19					
Laboratory ID:	11-125-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromoform	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Bromobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-11-16	11-11-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1111W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloromethane	ND	1.5	EPA 8260C	11-11-16	11-11-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Iodomethane	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-16	11-11-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chloroform	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Trichloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromomethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chloroethyl Vinyl Ether	ND	3.4	EPA 8260C	11-11-16	11-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-16	11-11-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1111W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Bromoform	ND	1.0	EPA 8260C	11-11-16	11-11-16	
Bromobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-16	11-11-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-11-16	11-11-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-16	11-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1111W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.82	7.93	10.0	10.0	78	79	63-127	1	17	
Benzene	8.86	9.46	10.0	10.0	89	95	76-121	7	12	
Trichloroethene	9.07	9.41	10.0	10.0	91	94	64-114	4	15	
Toluene	9.91	10.4	10.0	10.0	99	104	82-115	5	13	
Chlorobenzene	9.68	10.1	10.0	10.0	97	101	80-115	4	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	99	77-129			
<i>Toluene-d8</i>					98	101	80-127			
<i>4-Bromofluorobenzene</i>					96	100	80-125			



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	11-125-04					
Total Organic Carbon	46	2.0	SM 5310B	11-14-16	11-14-16	

Client ID:	UCC MW-19					
Laboratory ID:	11-125-05					
Total Organic Carbon	31	2.0	SM 5310B	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Total Organic Carbon	ND	2.0	SM 5310B	11-14-16	11-14-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-125-04							
	ORIG	DUP						
Total Organic Carbon	45.6	45.7	NA	NA	NA	0	15	

MATRIX SPIKE

Laboratory ID:	11-125-04							
	MS	MS		MS				
Total Organic Carbon	56.1	10.0	45.6	105	77-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1114W1							
	SB	SB		SB				
Total Organic Carbon	11.2	10.0	NA	112	96-117	NA	NA	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	11-125-04					
Methane	11000	1000	RSK 175	11-17-16	11-17-16	
Ethane	ND	130	RSK 175	11-17-16	11-17-16	U1
Ethene	78	5.0	RSK 175	11-17-16	11-17-16	

Client ID:	UCC MW-19					
Laboratory ID:	11-125-05					
Methane	5700	500	RSK 175	11-17-16	11-17-16	
Ethane	ND	85	RSK 175	11-17-16	11-17-16	U1
Ethene	ND	6.7	RSK 175	11-17-16	11-17-16	U1



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1117W1					
Methane	ND	0.50	RSK 175	11-17-16	11-17-16	
Ethane	ND	0.50	RSK 175	11-17-16	11-17-16	
Ethene	ND	0.50	RSK 175	11-17-16	11-17-16	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1117W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.35	4.54	4.42	4.42	N/A	98	103	75-125	4	25	
Ethane	8.07	8.56	8.32	8.32	N/A	97	103	75-125	6	25	
Ethene	8.24	8.77	7.77	7.77	N/A	106	113	75-125	6	25	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	11-125-04					
Nitrate	2.5	0.050	EPA 353.2	11-14-16	11-14-16	

Client ID:	UCC MW-19					
Laboratory ID:	11-125-05					
Nitrate	ND	0.050	EPA 353.2	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Nitrate	ND	0.050	EPA 353.2	11-14-16	11-14-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-125-04							
	ORIG	DUP						
Nitrate	2.49	2.54	NA	NA	NA	2	9	

MATRIX SPIKE								
Laboratory ID:	11-125-04							
	MS	MS		MS				
Nitrate	4.63	2.00	2.49	107	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1114W1							
	SB	SB		SB				
Nitrate	2.12	2.00	NA	106	96-122	NA	NA	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-18					
Laboratory ID:	11-125-04					
Sulfate	ND	10	ASTM D516-07	11-16-16	11-16-16	

Client ID:	UCC MW-19					
Laboratory ID:	11-125-05					
Sulfate	ND	10	ASTM D516-07	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Sulfate	ND	5.0	ASTM D516-07	11-16-16	11-16-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-129-02							
	ORIG	DUP						
Sulfate	17.6	17.5	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	11-129-02							
	MS	MS		MS				
Sulfate	35.8	20.0	17.6	91	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	91-113	NA	NA	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-125-04					
Client ID:	UCC MW-18					
Sodium	21000	1000	6010C	11-17-16	11-17-16	
Lab ID:	11-125-05					
Client ID:	UCC MW-19					
Sodium	18000	1000	6010C	11-17-16	11-17-16	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1117WH1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1000



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	20900	21000	0	1000	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	20000	40100	96	40100	96	0	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-125
 Project: 2007-098-T-998

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-125-04					
Client ID:	UCC MW-18					
Sodium	22000	1100	6010C		11-14-16	
Lab ID:	11-125-05					
Client ID:	UCC MW-19					
Sodium	20000	1100	6010C		11-14-16	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 11-14-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1114D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 11-14-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	21800	22100	1	1100	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-125
Project: 2007-098-T-998

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 11-14-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	44500	102	44900	104	1	





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-naphthalene) 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





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

November 22, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-T-998
Laboratory Reference No. 1611-129

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 11, 2016.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-129
Project: 2007-098-T-998

Case Narrative

Samples were collected on November 11, 2016 and received by the laboratory on November 11, 2016. 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.

Nitrate EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis

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.



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	11-129-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	0.38	0.20	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.26	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	0.95	0.20	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	11-129-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	92	77-129				
<i>Toluene-d8</i>	92	80-127				
<i>4-Bromofluorobenzene</i>	89	80-125				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	11-129-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.26	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	1.5	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-27					
Laboratory ID:	11-129-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	4.0	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-1					
Laboratory ID:	11-129-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	9.5	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	21	1.0	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	1.3	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	5.0	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	9.5	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	5.0	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	110	1.0	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	19	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-1					
Laboratory ID:	11-129-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	5.0	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-8					
Laboratory ID:	11-129-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	0.45	0.20	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.26	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	16	0.20	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	6.6	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-8					
Laboratory ID:	11-129-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	1.7	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-11-11-16					
Laboratory ID:	11-129-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	0.43	0.20	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.26	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	16	0.20	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	6.6	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-11-11-16					
Laboratory ID:	11-129-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	1.7	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	77-129				
<i>Toluene-d8</i>	98	80-127				
<i>4-Bromofluorobenzene</i>	95	80-125				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1114W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.26	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	1.9	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1114W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	1.0	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1114W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.24	8.02	10.0	10.0	82	80	63-127	3	17	
Benzene	9.22	9.71	10.0	10.0	92	97	76-121	5	12	
Trichloroethene	9.09	8.93	10.0	10.0	91	89	64-114	2	15	
Toluene	10.2	9.36	10.0	10.0	102	94	82-115	9	13	
Chlorobenzene	10.2	9.68	10.0	10.0	102	97	80-115	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	102	77-129			
<i>Toluene-d8</i>					95	92	80-127			
<i>4-Bromofluorobenzene</i>					94	100	80-125			



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	11-129-01					
Total Organic Carbon	42	1.0	SM 5310B	11-18-16	11-18-16	
Client ID:	UCC MW-27					
Laboratory ID:	11-129-02					
Total Organic Carbon	8.3	1.0	SM 5310B	11-18-16	11-18-16	
Client ID:	UCC MW-1					
Laboratory ID:	11-129-03					
Total Organic Carbon	460	1.0	SM 5310B	11-18-16	11-18-16	
Client ID:	UCC MW-8					
Laboratory ID:	11-129-04					
Total Organic Carbon	4.8	1.0	SM 5310B	11-18-16	11-18-16	
Client ID:	DUP-11-11-16					
Laboratory ID:	11-129-05					
Total Organic Carbon	4.7	1.0	SM 5310B	11-18-16	11-18-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1118W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-18-16	11-18-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-129-02							
	ORIG	DUP						
Total Organic Carbon	8.28	8.18	NA	NA	NA	NA	1	15

MATRIX SPIKE

Laboratory ID:	11-129-02							
	MS	MS		MS				
Total Organic Carbon	17.6	10.0	8.28	93	77-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1118W1							
	SB	SB		SB				
Total Organic Carbon	10.6	10.0	NA	106	96-117	NA	NA	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	11-129-01					
Methane	12000	1000	RSK 175	11-14-16	11-14-16	
Ethane	ND	160	RSK 175	11-14-16	11-14-16	U1
Ethene	6.1	0.50	RSK 175	11-14-16	11-14-16	

Client ID:	UCC MW-27					
Laboratory ID:	11-129-02					
Methane	3600	500	RSK 175	11-14-16	11-14-16	
Ethane	ND	50	RSK 175	11-14-16	11-14-16	U1
Ethene	ND	2.2	RSK 175	11-14-16	11-14-16	U1

Client ID:	UCC MW-1					
Laboratory ID:	11-129-03					
Methane	13000	1000	RSK 175	11-14-16	11-14-16	
Ethane	ND	110	RSK 175	11-14-16	11-14-16	U1
Ethene	ND	16	RSK 175	11-14-16	11-14-16	U1

Client ID:	UCC MW-8					
Laboratory ID:	11-129-04					
Methane	160	15	RSK 175	11-14-16	11-14-16	
Ethane	ND	3.2	RSK 175	11-14-16	11-14-16	U1
Ethene	ND	0.50	RSK 175	11-14-16	11-14-16	

Client ID:	DUP-11-11-16					
Laboratory ID:	11-129-05					
Methane	160	15	RSK 175	11-14-16	11-14-16	
Ethane	ND	2.3	RSK 175	11-14-16	11-14-16	U1
Ethene	ND	0.50	RSK 175	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Methane	ND	0.50	RSK 175	11-14-16	11-14-16	
Ethane	ND	0.50	RSK 175	11-14-16	11-14-16	
Ethene	ND	0.50	RSK 175	11-14-16	11-14-16	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1114W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.66	4.72	4.42	4.42	N/A	105	107	75-125	1	25	
Ethane	9.04	8.75	8.32	8.32	N/A	109	105	75-125	3	25	
Ethene	9.35	9.15	7.77	7.77	N/A	120	118	75-125	2	25	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	11-129-01					
Nitrate	0.060	0.050	EPA 353.2	11-14-16	11-14-16	

Client ID:	UCC MW-27					
Laboratory ID:	11-129-02					
Nitrate	ND	0.050	EPA 353.2	11-14-16	11-14-16	

Client ID:	UCC MW-1					
Laboratory ID:	11-129-03					
Nitrate	0.14	0.050	EPA 353.2	11-14-16	11-14-16	

Client ID:	UCC MW-8					
Laboratory ID:	11-129-04					
Nitrate	ND	0.050	EPA 353.2	11-14-16	11-14-16	

Client ID:	DUP-11-11-16					
Laboratory ID:	11-129-05					
Nitrate	ND	0.050	EPA 353.2	11-14-16	11-14-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Nitrate	ND	0.050	EPA 353.2	11-14-16	11-14-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-125-04							
	ORIG	DUP						
Nitrate	2.49	2.54	NA	NA	NA	2	9	

MATRIX SPIKE								
Laboratory ID:	11-125-04							
	MS	MS		MS				
Nitrate	4.63	2.00	2.49	107	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1114W1							
	SB	SB		SB				
Nitrate	2.12	2.00	NA	106	96-122	NA	NA	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCC MW-26					
Laboratory ID:	11-129-01					
Sulfate	ND	5.0	ASTM D516-07	11-16-16	11-16-16	

Client ID:	UCC MW-27					
Laboratory ID:	11-129-02					
Sulfate	18	10	ASTM D516-07	11-16-16	11-16-16	

Client ID:	UCC MW-1					
Laboratory ID:	11-129-03					
Sulfate	ND	5.0	ASTM D516-07	11-16-16	11-16-16	

Client ID:	UCC MW-8					
Laboratory ID:	11-129-04					
Sulfate	22	5.0	ASTM D516-07	11-16-16	11-16-16	

Client ID:	DUP-11-11-16					
Laboratory ID:	11-129-05					
Sulfate	22	5.0	ASTM D516-07	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Sulfate	ND	5.0	ASTM D516-07	11-16-16	11-16-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-129-02							
	ORIG	DUP						
Sulfate	17.6	17.5	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	11-129-02							
	MS	MS		MS				
Sulfate	35.8	20.0	17.6	91	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	91-113	NA	NA	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-129-01					
Client ID:	UCC MW-26					
Sodium	68000	1000	6010C	11-17-16	11-17-16	
Lab ID:	11-129-02					
Client ID:	UCC MW-27					
Sodium	31000	1000	6010C	11-17-16	11-17-16	
Lab ID:	11-129-03					
Client ID:	UCC MW-1					
Sodium	150000	5000	6010C	11-17-16	11-18-16	
Lab ID:	11-129-04					
Client ID:	UCC MW-8					
Sodium	13000	1000	6010C	11-17-16	11-17-16	
Lab ID:	11-129-05					
Client ID:	DUP-11-11-16					
Sodium	12000	1000	6010C	11-17-16	11-17-16	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-129
Project: 2007-098-T-998

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1117WH1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1000



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-129
Project: 2007-098-T-998

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 11-17-16
Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	20900	21000	0	1000	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**TOTAL SODIUM
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	20000	40100	96	40100	96	0	



Date of Report: November 22, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-129
 Project: 2007-098-T-998

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-129-01					
Client ID:	UCC MW-26					
Sodium	68000	1100	6010C		11-21-16	
Lab ID:	11-129-02					
Client ID:	UCC MW-27					
Sodium	31000	1100	6010C		11-14-16	
Lab ID:	11-129-03					
Client ID:	UCC MW-1					
Sodium	140000	1100	6010C		11-14-16	
Lab ID:	11-129-04					
Client ID:	UCC MW-8					
Sodium	13000	1100	6010C		11-14-16	
Lab ID:	11-129-05					
Client ID:	DUP-11-11-16					
Sodium	13000	1100	6010C		11-14-16	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-129
Project: 2007-098-T-998

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 11-14-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1114D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-129
Project: 2007-098-T-998

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 11-14-16
Matrix: Water
Units: ug/L (ppb)
Lab ID: 11-125-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	21800	22100	1	1100	



Date of Report: November 22, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-129
Project: 2007-098-T-998

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 11-14-16
Matrix: Water
Units: ug/L (ppb)
Lab ID: 11-125-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	44500	102	44900	104	1	





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-naphthalene) 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





Onsite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Laboratory Number: **11-129**

Company: **HWA GeoSciences**

Project Number: **2007-098-T-998**

Project Name: **Ultra Custom Care Cleaners**

Project Manager: **Arnie Sugar**

Sampled by: **Arnie York & Nicole Kapize**

Turnaround Request (in working days)
(Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TYP analysis 5 Days)
 (other) _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UCC MW-26	11/11/10	8:20	GW
2	UCC MW-27		10:40	
3	UCC MW-1		12:39	
4	UCC MW-8		12:40	
5	Dup-11-11-16		13:10	

Number of Containers	Laboratory Number: 11-129																				
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Total Organic Carbon	Methane/Ethane/Ethene*	Nitrate/Sulfate*	Tot + Diss Nat	% Moisture
9						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	HWA	11/11/10	14:30	* Lower detection levels needed on ethane, ethene + sulfate
<i>[Signature]</i>	OSI	11/11/10	14:30	



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

November 22, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1611-149

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 15, 2016.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-149
Project: 2007-098-22

Case Narrative

Samples were collected on November 14, 2016 and received by the laboratory on November 15, 2016. 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.

Nitrate EPA 353.3 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis

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.



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-2					
Laboratory ID:	11-149-01					
Dichlorodifluoromethane	ND	1.4	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	8.5	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	5.7	1.0	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	5.0	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	7.5	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	5.0	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	190	1.0	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Chloroform	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	12	1.0	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	16	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	INJ-2					
Laboratory ID:	11-149-01					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	270	2.0	EPA 8260C	11-18-16	11-18-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	5.0	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	7.0	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	11-149-02					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	1.7	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	1.5	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroform	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-16					
Laboratory ID:	11-149-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	0.22	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	11-149-03					
Dichlorodifluoromethane	ND	0.56	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	3.4	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	2.0	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	3.0	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Chloroform	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	6.4	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	11-149-03					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	70	0.40	EPA 8260C	11-16-16	11-16-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	2.0	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	2.8	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	11-149-04					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	1.7	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	0.30	0.20	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	1.5	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	1.7	0.20	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroform	0.21	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	2.4	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-7					
Laboratory ID:	11-149-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	9.9	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	11-149-05					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	1.7	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	1.5	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	0.98	0.20	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroform	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	0.23	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-5					
Laboratory ID:	11-149-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	6.3	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116W1					
Dichlorodifluoromethane	ND	0.28	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	1.7	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	1.5	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chloroform	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1116W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	1.0	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1118W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Chloromethane	ND	1.0	EPA 8260C	11-18-16	11-18-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Bromomethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Chloroethane	ND	1.0	EPA 8260C	11-18-16	11-18-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Iodomethane	ND	1.0	EPA 8260C	11-18-16	11-18-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-18-16	11-18-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Chloroform	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Trichloroethene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Dibromomethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	11-18-16	11-18-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-18-16	11-18-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1118W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Bromoform	ND	1.0	EPA 8260C	11-18-16	11-18-16	
Bromobenzene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-18-16	11-18-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-18-16	11-18-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-18-16	11-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1116W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.87	7.70	10.0	10.0	79	77	63-127	2	17	
Benzene	9.65	9.62	10.0	10.0	97	96	76-121	0	12	
Trichloroethene	9.07	8.81	10.0	10.0	91	88	64-114	3	15	
Toluene	10.1	10.1	10.0	10.0	101	101	82-115	0	13	
Chlorobenzene	9.79	9.62	10.0	10.0	98	96	80-115	2	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>105</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>97</i>	<i>99</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>90</i>	<i>88</i>	<i>80-125</i>			



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1118W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.68	9.08	10.0	10.0	87	91	63-127	5	17	
Benzene	9.25	9.18	10.0	10.0	93	92	76-121	1	12	
Trichloroethene	8.49	8.35	10.0	10.0	85	84	64-114	2	15	
Toluene	8.90	8.89	10.0	10.0	89	89	82-115	0	13	
Chlorobenzene	9.06	9.15	10.0	10.0	91	92	80-115	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>102</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>100</i>	<i>101</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>97</i>	<i>100</i>	<i>80-125</i>			



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	11-149-03					
Total Organic Carbon	ND	1.0	SM 5310B	11-18-16	11-18-16	
Client ID:	UCCMW-7					
Laboratory ID:	11-149-04					
Total Organic Carbon	4.0	1.0	SM 5310B	11-18-16	11-18-16	
Client ID:	UCCMW-5					
Laboratory ID:	11-149-05					
Total Organic Carbon	1.5	1.0	SM 5310B	11-18-16	11-18-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1118W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-18-16	11-18-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-129-02							
	ORIG	DUP						
Total Organic Carbon	8.28	8.18	NA	NA	NA	NA	1	15

MATRIX SPIKE

Laboratory ID:	11-129-02							
	MS	MS		MS				
Total Organic Carbon	17.6		10.0	8.28	93	77-126	NA	NA

SPIKE BLANK

Laboratory ID:	SB1118W1							
	SB	SB		SB				
Total Organic Carbon	10.6		10.0	NA	106	96-117	NA	NA



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	11-149-03					
Methane	290	25	RSK 175	11-17-16	11-17-16	
Ethane	ND	3.6	RSK 175	11-17-16	11-17-16	U1
Ethene	ND	0.64	RSK 175	11-17-16	11-17-16	U1

Client ID:	UCCMW-7					
Laboratory ID:	11-149-04					
Methane	1200	75	RSK 175	11-17-16	11-17-16	
Ethane	ND	14	RSK 175	11-17-16	11-17-16	U1
Ethene	ND	1.4	RSK 175	11-17-16	11-17-16	U1

Client ID:	UCCMW-5					
Laboratory ID:	11-149-05					
Methane	0.58	0.50	RSK 175	11-17-16	11-17-16	
Ethane	ND	0.50	RSK 175	11-17-16	11-17-16	
Ethene	ND	0.50	RSK 175	11-17-16	11-17-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1117W1					
Methane	ND	0.50	RSK 175	11-17-16	11-17-16	
Ethane	ND	0.50	RSK 175	11-17-16	11-17-16	
Ethene	ND	0.50	RSK 175	11-17-16	11-17-16	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1117W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.35	4.54	4.42	4.42	N/A	98	103	75-125	4	25	
Ethane	8.07	8.56	8.32	8.32	N/A	97	103	75-125	6	25	
Ethene	8.24	8.77	7.77	7.77	N/A	106	113	75-125	6	25	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	11-149-03					
Nitrate	1.7	0.050	EPA 353.2	11-17-16	11-17-16	

Client ID:	UCCMW-7					
Laboratory ID:	11-149-04					
Nitrate	0.090	0.050	EPA 353.2	11-17-16	11-17-16	

Client ID:	UCCMW-5					
Laboratory ID:	11-149-05					
Nitrate	0.31	0.050	EPA 353.2	11-17-16	11-17-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1117W1					
Nitrate	ND	0.050	EPA 353.2	11-17-16	11-17-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-142-01							
	ORIG	DUP						
Nitrate	2.04	2.06	NA	NA	NA	NA	1	9

MATRIX SPIKE								
Laboratory ID:	11-142-01							
	MS	MS		MS				
Nitrate	4.36	2.00	2.04	116	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1117W1							
	SB	SB		SB				
Nitrate	2.26	2.00	NA	113	96-122	NA	NA	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BB-2					
Laboratory ID:	11-149-03					
Sulfate	9.9	5.0	ASTM D516-07	11-16-16	11-16-16	

Client ID:	UCCMW-7					
Laboratory ID:	11-149-04					
Sulfate	23	10	ASTM D516-07	11-16-16	11-16-16	

Client ID:	UCCMW-5					
Laboratory ID:	11-149-05					
Sulfate	11	5.0	ASTM D516-07	11-16-16	11-16-16	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Sulfate	ND	5.0	ASTM D516-07	11-16-16	11-16-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-129-02							
	ORIG	DUP						
Sulfate	17.6	17.5	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	11-129-02							
	MS	MS		MS				
Sulfate	35.8	20.0	17.6	91	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	91-113	NA	NA	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-149-03					
Client ID:	BB-2					
Sodium	14000	1000	6010C	11-17-16	11-17-16	
Lab ID:	11-149-04					
Client ID:	UCCMW-7					
Sodium	14000	1000	6010C	11-17-16	11-17-16	
Lab ID:	11-149-05					
Client ID:	UCCMW-5					
Sodium	8800	1000	6010C	11-17-16	11-17-16	



Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-149
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1117WH1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1000



Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-149
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	20900	21000	0	1000	



Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-149
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 11-125-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	20000	40100	96	40100	96	0	



Date of Report: November 22, 2016
 Samples Submitted: November 15, 2016
 Laboratory Reference: 1611-149
 Project: 2007-098-22

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-149-03					
Client ID:	BB-2					
Sodium	15000	1100	6010C		11-17-16	
Lab ID:	11-149-04					
Client ID:	UCCMW-7					
Sodium	15000	1100	6010C		11-17-16	
Lab ID:	11-149-05					
Client ID:	UCCMW-5					
Sodium	10000	1100	6010C		11-17-16	



Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-149
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 11-17-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1117D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-149
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-165-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	33900	34600	2	1100	



Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-149
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-165-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	55800	98	56000	100	0	





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-naphthalene) 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





OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

11-149

Company: WVA Geosciences

Project Number: 2007-098-22

Project Name: W River Ultra-Cleaner Cleaners

Project Manager: Arnie Sagar

Sampled by: Arnie Sagar

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	INS-2	11-14-16	1013	water	3
2	VECMW-16		1044		3
3	BB-2		1404		9
4	VECMW-7		1456		9
5	VECMW-5	11-14-16	1543	water	9

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TOC	Methane/Ethane/Ethene	Nitrate/Sulfate	Total/Disc Sodium	% Moisture
3						X																
3																						
9																						
9																						
9																						

Signature	Company	Date	Time	Comments/Special Instructions
	WVA Geosciences	11-14-16	1700	
	Speedy	11-15-16	0936	
	"	" "	1120	
	COBE	11/15/16	1120	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

December 7, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1611-253

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 29, 2016.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2016
Samples Submitted: November 29, 2016
Laboratory Reference: 1611-253
Project: 2007-098-22

Case Narrative

Samples were collected on November 29, 2016 and received by the laboratory on November 29, 2016. 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.

Sulfate ASTM D516-07 Analysis

Sample, UCCMW-21(11-253-03) PQL was increased due to sample interference

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.



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	11-253-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloromethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Iodomethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-30-16	11-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(cis) 1,2-Dichloroethene	2.3	0.20	EPA 8260C	11-30-16	11-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroform	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Trichloroethene	0.88	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	11-30-16	11-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	11-253-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Tetrachloroethene	6.1	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromoform	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Bromobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	11-253-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloromethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Iodomethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-30-16	11-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(cis) 1,2-Dichloroethene	9.5	0.20	EPA 8260C	11-30-16	11-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroform	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Trichloroethene	0.70	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	11-30-16	11-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-21					
Laboratory ID:	11-253-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Tetrachloroethene	7.8	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromoform	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Bromobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	11-253-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloromethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Vinyl Chloride	0.20	0.20	EPA 8260C	11-30-16	11-30-16	
Bromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Iodomethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-30-16	11-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(cis) 1,2-Dichloroethene	2.6	0.20	EPA 8260C	11-30-16	11-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroform	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Trichloroethene	1.9	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	11-30-16	11-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-25					
Laboratory ID:	11-253-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Tetrachloroethene	8.1	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromoform	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Bromobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1130W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloromethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Iodomethane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-30-16	11-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chloroform	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Trichloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromomethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	11-30-16	11-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-30-16	11-30-16	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1130W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Bromoform	ND	1.0	EPA 8260C	11-30-16	11-30-16	
Bromobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-30-16	11-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-30-16	11-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-30-16	11-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1130W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.01	7.41	10.0	10.0	80	74	63-127	8	17	
Benzene	9.34	9.15	10.0	10.0	93	92	76-121	2	12	
Trichloroethene	8.21	8.20	10.0	10.0	82	82	64-114	0	15	
Toluene	8.87	8.72	10.0	10.0	89	87	82-115	2	13	
Chlorobenzene	9.24	9.09	10.0	10.0	92	91	80-115	2	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	97	77-129			
<i>Toluene-d8</i>					100	100	80-127			
<i>4-Bromofluorobenzene</i>					95	98	80-125			



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	11-253-01					
Methane	3.0	0.50	RSK 175	11-30-16	11-30-16	
Ethane	ND	0.50	RSK 175	11-30-16	11-30-16	
Ethene	ND	0.50	RSK 175	11-30-16	11-30-16	

Client ID:	UCCMW-21					
Laboratory ID:	11-253-02					
Methane	53	5.0	RSK 175	11-30-16	11-30-16	
Ethane	ND	1.2	RSK 175	11-30-16	11-30-16	U1
Ethene	ND	0.50	RSK 175	11-30-16	11-30-16	

Client ID:	UCCMW-25					
Laboratory ID:	11-253-03					
Methane	1400	500	RSK 175	11-30-16	11-30-16	
Ethane	ND	32	RSK 175	11-30-16	11-30-16	U1
Ethene	ND	1.8	RSK 175	11-30-16	11-30-16	U1



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MW1130W1					
Methane	ND	0.50	RSK 175	11-30-16	11-30-16	
Ethane	ND	0.50	RSK 175	11-30-16	11-30-16	
Ethene	ND	0.50	RSK 175	11-30-16	11-30-16	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1130W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	3.82	3.37	4.42	4.42	N/A	86	76	75-125	13	25	
Ethane	6.87	6.30	8.32	8.32	N/A	83	76	75-125	9	25	
Ethene	7.35	6.94	7.77	7.77	N/A	95	89	75-125	6	25	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	11-253-01					
Nitrate	1.5	0.050	EPA 353.2	11-30-16	11-30-16	

Client ID:	UCCMW-21					
Laboratory ID:	11-253-02					
Nitrate	0.16	0.050	EPA 353.2	11-30-16	11-30-16	

Client ID:	UCCMW-25					
Laboratory ID:	11-253-03					
Nitrate	ND	0.050	EPA 353.2	11-30-16	11-30-16	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1130W1					
Nitrate	ND	0.050	EPA 353.2	11-30-16	11-30-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-253-01							
	ORIG	DUP						
Nitrate	1.48	1.48	NA	NA	NA	0	9	

MATRIX SPIKE								
Laboratory ID:	11-253-01							
	MS	MS		MS				
Nitrate	3.74	2.00	1.48	113	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1130W1							
	SB	SB		SB				
Nitrate	2.20	2.00	NA	110	96-122	NA	NA	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	11-253-01					
Sulfate	19	10	ASTM D516-07	12-5-16	1205-16	

Client ID:	UCCMW-21					
Laboratory ID:	11-253-02					
Sulfate	12	5.0	ASTM D516-07	12-5-16	1205-16	

Client ID:	UCCMW-25					
Laboratory ID:	11-253-03					
Sulfate	ND	10	ASTM D516-07	12-5-16	1205-16	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1122F1					
Sulfate	ND	5.0	ASTM D516-07	11-22-16	11-22-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-164-02							
	ORIG	DUP						
Sulfate	36.6	34.6	NA	NA	NA	6	10	

MATRIX SPIKE								
Laboratory ID:	11-164-02							
	MS	MS		MS				
Sulfate	89.6	50.0	36.6	106	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1121F1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	91-113	NA	NA	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-253-01					
Client ID:	UCCMW-20					
Sodium	9700	1000	6010C	12-5-16	12-5-16	
Lab ID:	11-253-02					
Client ID:	UCCMW-21					
Sodium	17000	1000	6010C	12-5-16	12-5-16	
Lab ID:	11-253-03					
Client ID:	UCCMW-25					
Sodium	32000	1000	6010C	12-5-16	12-5-16	



Date of Report: December 7, 2016
Samples Submitted: November 29, 2016
Laboratory Reference: 1611-253
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-5-16

Date Analyzed: 12-5-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1205WH1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1000



Date of Report: December 7, 2016
Samples Submitted: November 29, 2016
Laboratory Reference: 1611-253
Project: 2007-098-22

**TOTAL SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 12-5-16

Date Analyzed: 12-5-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 11-253-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	9710	9790	1	1000	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**TOTAL SODIUM
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 12-5-16

Date Analyzed: 12-5-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 11-253-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	20000	28500	94	29000	96	2	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**DISSOLVED SODIUM
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-253-01					
Client ID:	UCCMW-20					
Sodium	9700	1100	6010C		12-5-16	
Lab ID:	11-253-02					
Client ID:	UCCMW-21					
Sodium	17000	1100	6010C		12-5-16	
Lab ID:	11-253-03					
Client ID:	UCCMW-25					
Sodium	33000	1100	6010C		12-5-16	



Date of Report: December 7, 2016
Samples Submitted: November 29, 2016
Laboratory Reference: 1611-253
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 12-5-16
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB1205D1

Analyte	Method	Result	PQL
Sodium	6010C	ND	1100



Date of Report: December 7, 2016
Samples Submitted: November 29, 2016
Laboratory Reference: 1611-253
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Analyzed: 12-5-16
Matrix: Water
Units: ug/L (ppb)
Lab ID: 11-253-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Sodium	9750	9960	2	1100	



Date of Report: December 7, 2016
Samples Submitted: November 29, 2016
Laboratory Reference: 1611-253
Project: 2007-098-22

**DISSOLVED SODIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Analyzed: 12-5-16
Matrix: Water
Units: ug/L (ppb)
Lab ID: 11-253-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Sodium	22200	31500	98	31600	99	1	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UCCMW-20					
Laboratory ID:	11-253-01					
Total Organic Carbon	2.1	1.0	SM 5310B	12-6-16	12-6-16	

Client ID:	UCCMW-21					
Laboratory ID:	11-253-02					
Total Organic Carbon	13	1.0	SM 5310B	12-6-16	12-6-16	

Client ID:	UCCMW-25					
Laboratory ID:	11-253-03					
Total Organic Carbon	6.2	1.0	SM 5310B	12-6-16	12-6-16	



Date of Report: December 7, 2016
 Samples Submitted: November 29, 2016
 Laboratory Reference: 1611-253
 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Total Organic Carbon	ND	1.0	SM 5310B	12-6-16	12-6-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-253-01							
	ORIG	DUP						
Total Organic Carbon	2.06	2.39	NA	NA	NA	NA	15	15

MATRIX SPIKE

Laboratory ID:	11-253-01							
	MS	MS		MS				
Total Organic Carbon	12.0	10.0	2.06	99	77-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1206W1							
	SB	SB		SB				
Total Organic Carbon	10.1	10.0	NA	101	96-117	NA	NA	





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-naphthalene) 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



APPENDIX C

Boring Logs



FARALLON CONSULTING
 320 3rd Ave. NE, Suite 200
 Issaquah, WA 98027

LOG OF WELL MW-1

(Page 1 of 2)

Ultra Custom Cleaners Property
 City of Bothell
 Bothell, Washington

Farallon PN: 773-001

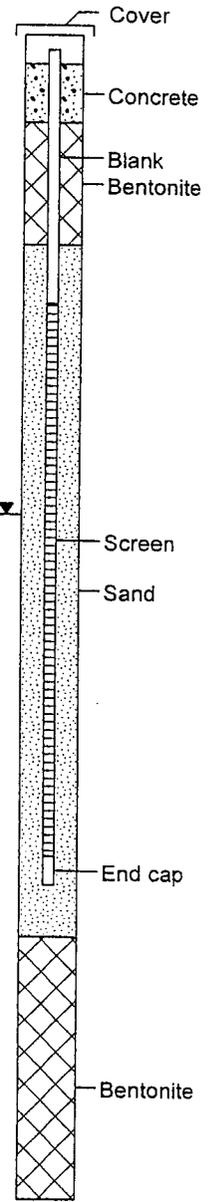
Logged By: John Schmitt

Date/Time Started : 02/19/02 11:30
 Date/Time Completed : 02/19/02 14:15
 Equipment : CME 75
 Drilling Company : Cascade
 Drilling Forman : Scott Krueger

Drilling Method : HSA 4.25" x 8"
 Sampler Type : D + M, 300 lb hammer
 Depth Of Water ATD : 8 feet
 Total Well Depth : 15 feet
 Total Boring Depth : 29.5 feet

Depth in Feet	Sample Interval	% Recovery	Blow Counts 6/6/6	Sample ID	Sample Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
0									0'-0.33' ASPHALT
			3/4/3	MW1 1-2.5	X	165	GP		0.33' - 1.0' GRAVEL, angular (roadbase) with sand. Hand dug.
		100	5/6/8	MW1 2.5-4.0		193	SP		1.0' - 2.5' SAND, fine to medium grained, trace silt, brown, loose, slightly moist, no odor.
							SM		2.5' - 3.5' Becomes fine grained.
		100	7/8/11	MW1 4-5.5					3.5' - 3.7' SAND, fine grained, with silt, brown, slightly moist, no odor.
		100	11/12/13	MW1 5.5-7					3.7' - 4.0' SAND, medium grained, trace silt, brown, loose, slightly moist, no odor.
		100	11/13/13	MW1 7-8.5		144			4.0' - 7.0' Becomes fine to medium grained, medium dense, moist.
									7.0' - 8.5' Becomes grey-brown, very moist to wet.
		100	18/18/19	MW1 8.5-10					8.5' - 10.0' Becomes medium grained, minor rounded gravel, wet.
		100	18/20/26	MW1 10-11.5		128			10.0' - 11.5' Same as above with rounded gravel, becomes dense.
		100	15/16/18	MW1 11.5-13			SP		11.5' - 13.0' No gravel, minor silt, medium dense.
		100	12/12/12	MW1 13-14.5		80.9			
		100	14/15/15	MW1 14.5-16					14.5' - 16.0' Becomes fine to medium grained.
		100	15/16/17	MW1 16-17.5					
		100	15/15/17	MW1 17.5-19		25.9			
		100	18/20/20	MW1 19-20.5					

Well: MW-2
 Elevation (TOC): 99.41



WELL INFORMATION

Grout: Bentonite chips
 Casing: 2" Schedule 40 PVC
 Screen: 2" Schedule 40 0.010-inch slotted PVC
 Sand Pack: #2/12 sand

Well elevation relative to arbitrary site datum.

LOG OF WELL MW-1

(Page 1 of 2)

04-12-2002 F:\Drafting\Projects\773\mw1.bor



FARALLON CONSULTING
 320 3rd Ave. NE, Suite 200
 Issaquah, WA 98027

LOG OF WELL MW-1

(Page 2 of 2)

Ultra Custom Cleaners Property
 City of Bothell
 Bothell, Washington

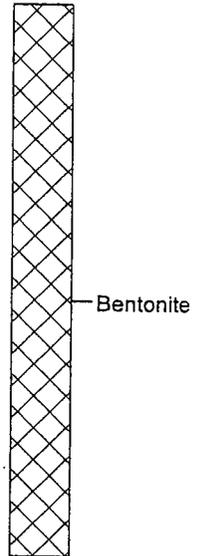
Farallon PN: 773-001

Logged By: John Schmitt

Date/Time Started : 02/19/02 11:30
 Date/Time Completed : 02/19/02 14:15
 Equipment : CME 75
 Drilling Company : Cascade
 Drilling Forman : Scott Krueger

Drilling Method : HSA 4.25" x 8"
 Sampler Type : D + M, 300 lb hammer
 Depth Of Water ATD : 8 feet
 Total Well Depth : 15 feet
 Total Boring Depth : 29.5 feet

Depth in Feet	Sample Interval	% Recovery	Blow Counts 6/6/6	Sample ID	Sample Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION	Well: MW-2 Elevation (TOC): 99.41
20		100	18/20/20	MW1 19-20.5						
		100	15/18/20	MW1 20.5-22						
		80	15/18/18	MW1 22-23.5		14.5	SP		22.0' - 24.5' Same as above, trace silt.	
		100	18/20/20	MW1 23.5-25						
25							GP		24.5' - 25.0' Sandy GRAVEL, fine to medium grained, rounded, wet, trace silt, no odor.	
		100	16/20/27	MW1 25-26.5					25.0' - 26.5' SAND, fine to medium, trace silt, grey brown, dense, wet, no odor.	
		100	18/20/22	MW1 26.5-28			SP		26.5' - 28.0' Becomes medium dense.	
		20	20/22/25	MW1 28-29.5		13.6			28.0' - 29.5' Becomes dense.	
30	Boring completed at 29.5 feet.									
	Water sample (MW1-26-29-W) collected using temporary screen from 26'-29'.									
35										
40										



WELL INFORMATION

Grout: Bentonite chips
 Casing: 2" Schedule 40 PVC
 Screen: 2" Schedule 40 0.010-inch slotted PVC
 Sand Pack: #2/12 sand

Well elevation relative to arbitrary site datum.

LOG OF WELL MW-1

(Page 2 of 2)

04-12-2002 F:\Drafting\Projects\773\mw1.bor



FARALLON CONSULTING
 320 3rd Ave. NE, Suite 200
 Issaquah, WA 98027

LOG OF WELL MW-2

(Page 1 of 1)

Ultra Custom Cleaners Property
 City of Bothell
 Bothell, Washington

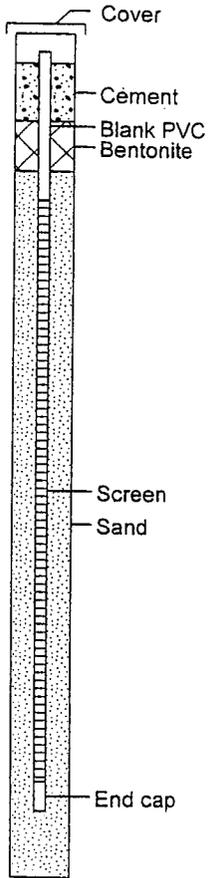
Farallon PN: 773-001

Logged By: John Schmitt

Date/Time Started : 02/19/02 14:40
 Date/Time Completed : 02/19/02 16:10
 Equipment : CME 75
 Drilling Company : Cascade
 Drilling Forman : Scott Krueger

Drilling Method : HSA 4.25" x 8"
 Sampler Type : D + M, 300 lb hammer
 Depth Of Water ATD : 5 feet
 Total Well Depth : 13.5 feet
 Total Boring Depth : 14.5 feet

Well: MW-2
 Elevation (TOC): 99.54



Depth in Feet	Sample Interval	% Recovery	Blow Counts 6/6/6	Sample ID	Sample Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
0									0' - 0.33' ASPHALT
							GP		0.33' - 1.0' GRAVEL, angular (roadbase) with sand.
									1.0' - 2.5' SAND, fine to medium grained, trace silt, grey-brown, loose, slightly moist. Hand dug to 2.5 feet.
									2.5' - 4.0' Slight chemical odor (sharp).
									4.0' - 5.5' Becomes medium grained, brown, moist to wet. Chemical odor, (sharp).
					X		SP		5.5' - 7.0' Becomes fine to medium grained, medium dense, wet. Strong, sharp chemical odor.
									7.0' - 8.5' Becomes medium grained, grey-brown.
									8.5' - 10.0' Trace gravel.
							GP		10.0' - 10.5' GRAVEL, fine to medium, with coarse sand, grey-brown, medium dense, wet, no odor.
							SP		10.5' - 11.5' SAND, medium to coarse grained, minor gravel, fine to medium grained, rounded, grey-brown, medium dense, wet, no odor.
									11.5' - 13.0' Same as above with minor cobbles.
									13.0' - 14.5' Becomes fine to medium grained, with medium grained, rounded gravel.
									Boring completed to 14.5'

WELL INFORMATION

Grout: Bentonite chips
 Casing: 2" Schedule 40 PVC
 Screen: 2" Schedule 40 0.010 slotted PVC
 Sand Pack: #2/12 sand

Well elevation relative to arbitrary site datum

LOG OF WELL MW-2

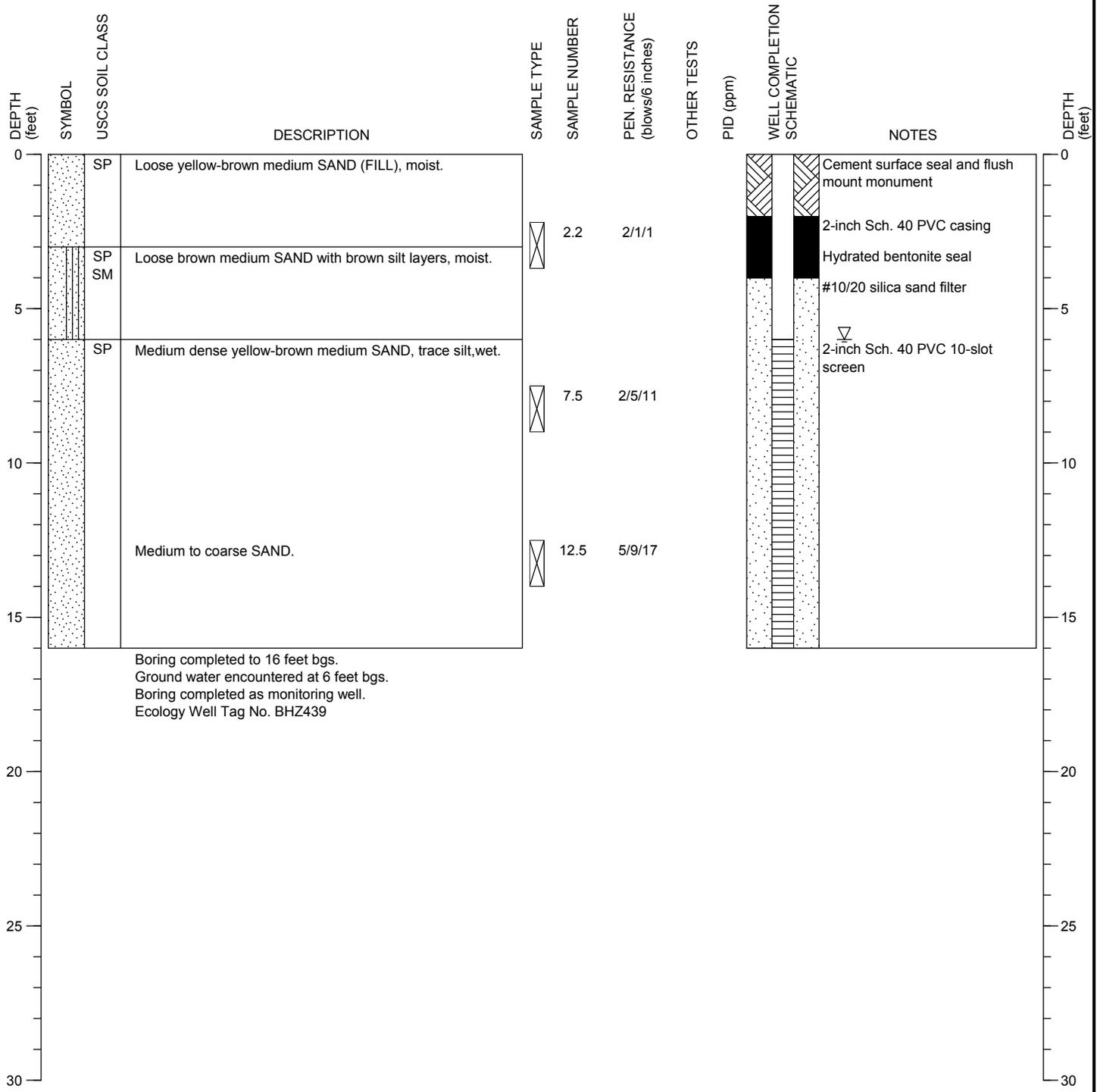
(Page 1 of 1)

04-12-2002 F:\Drafting\Projects\773\mw2.bor

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 4/8/2014
 DATE COMPLETED: 4/8/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Area Wide Monitoring
 Bothell, Washington

MONITORING WELL:
 MW-3R

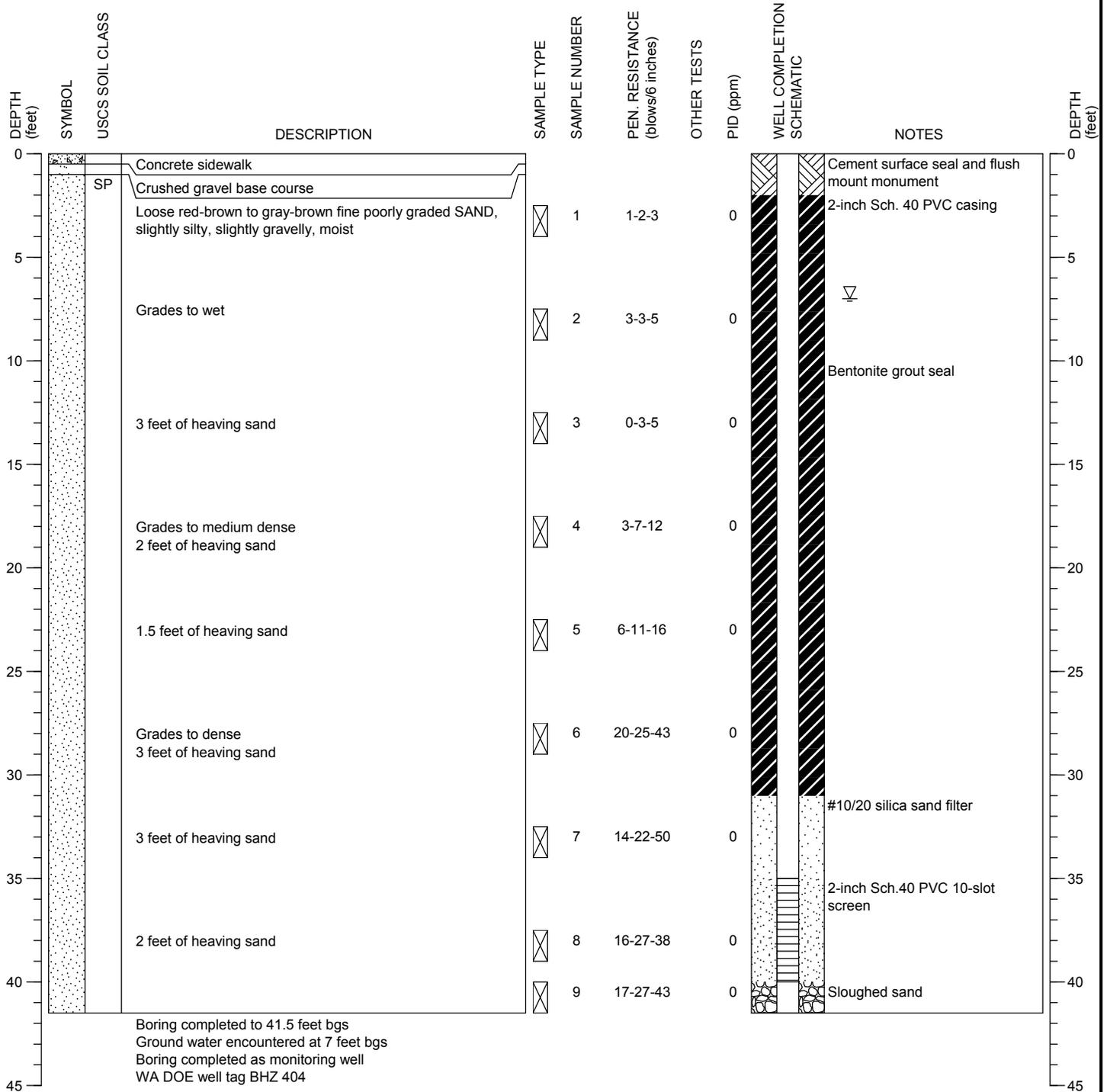
PAGE: 1 of 1

PROJECT NO.: 2007-098-998 FIGURE:

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 1/9/2014
 DATE COMPLETED: 1/9/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Remedial Investigation
 Bothell, Washington

MONITORING WELL:
 UCCMW-4

PAGE: 1 of 1

PROJECT NO.: 2007-098-996

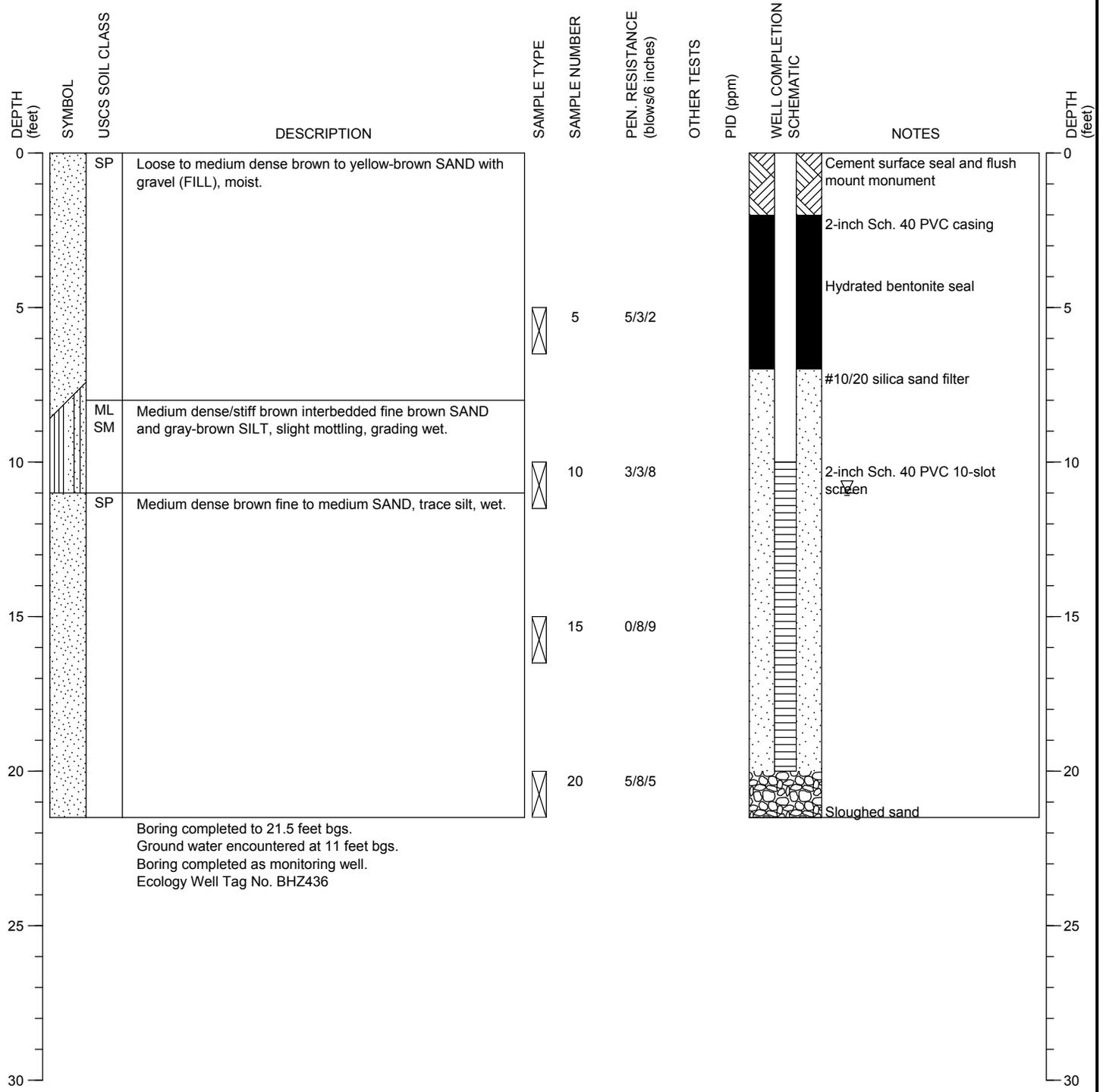
FIGURE:

A-34

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 4/7/2014
 DATE COMPLETED: 4/7/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-5

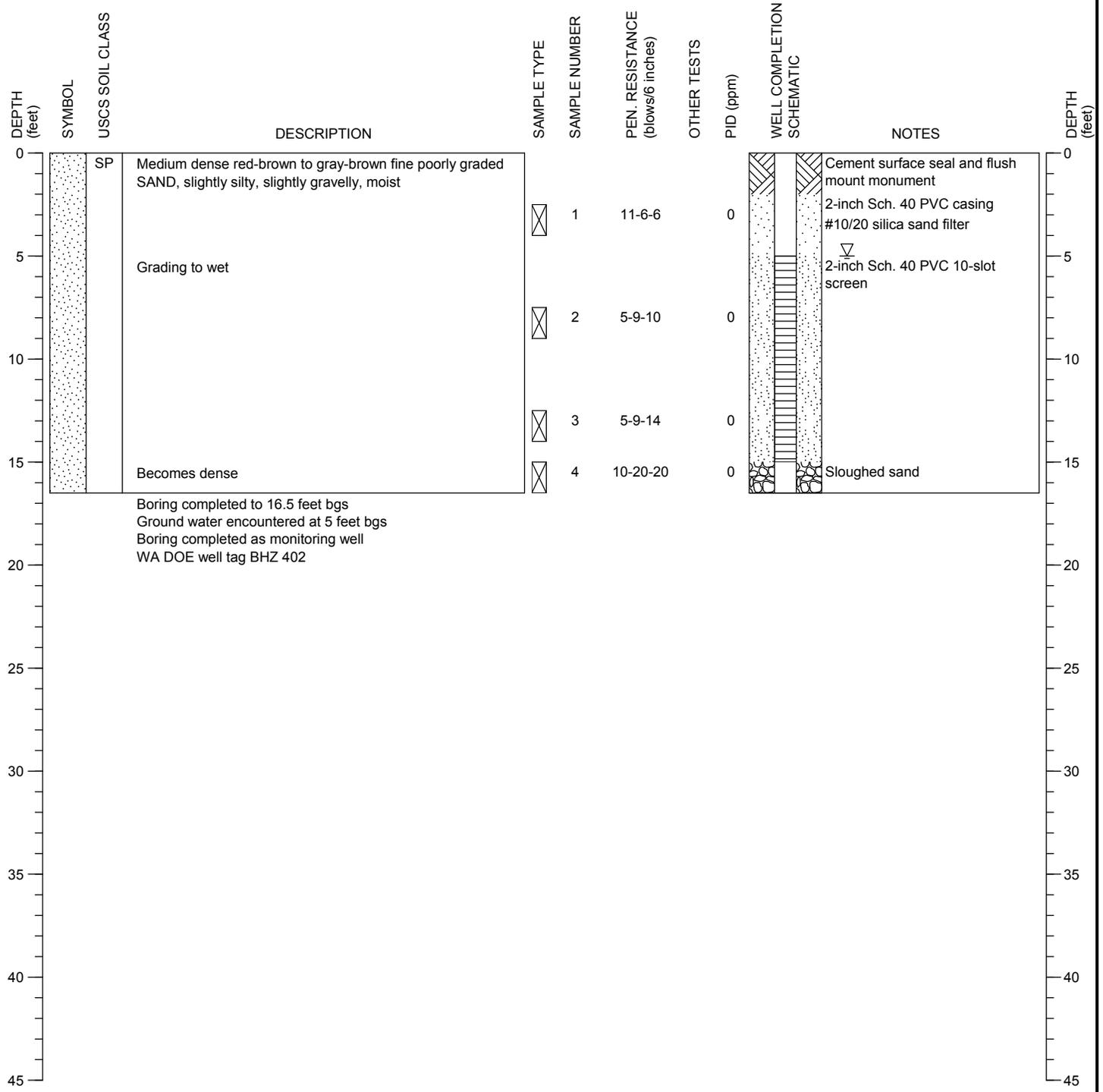


Area Wide Monitoring
 Bothell, Washington

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 1/8/2014
 DATE COMPLETED: 1/8/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-6

PAGE: 1 of 1

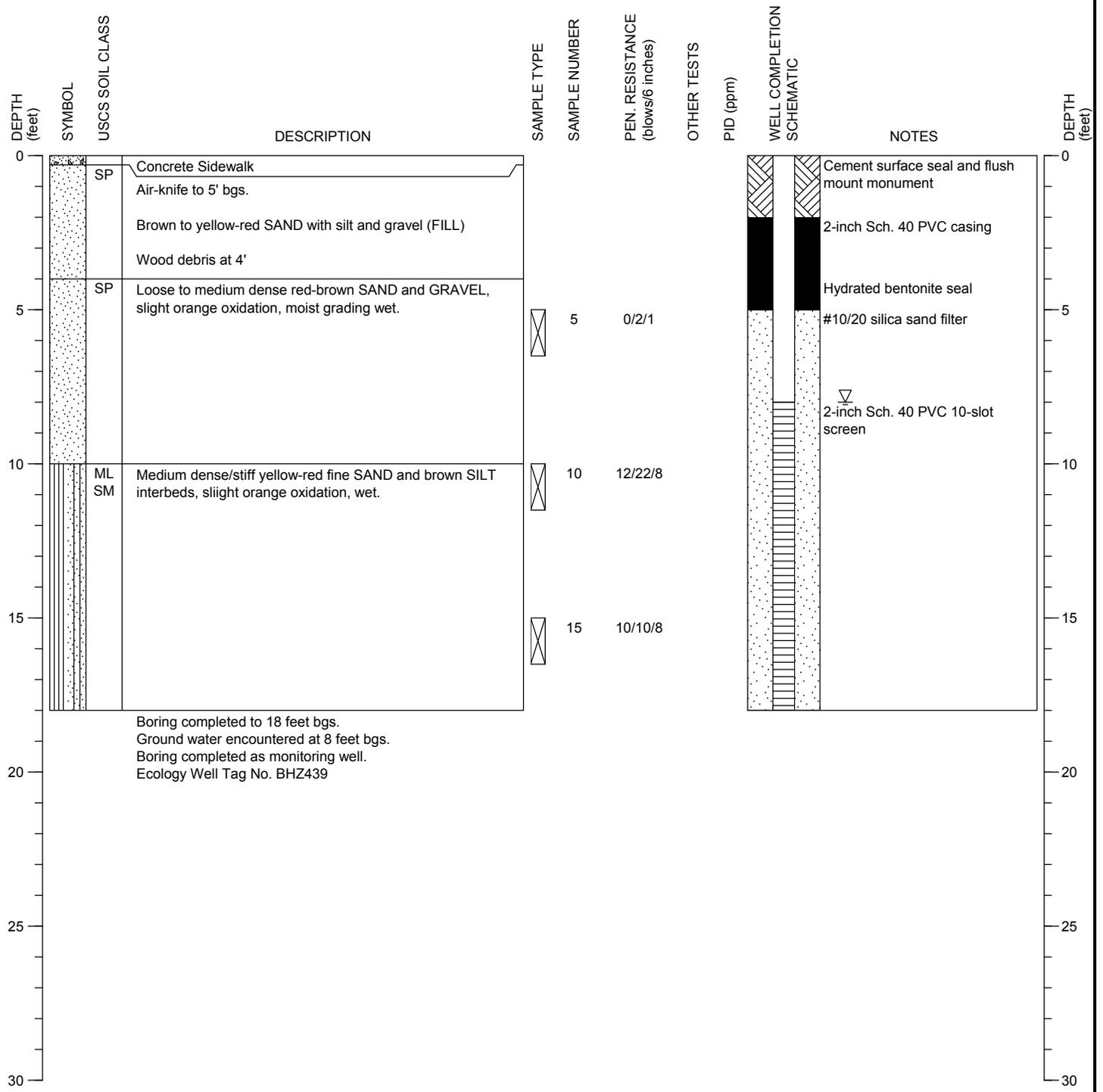


Ultra Custom Care Cleaners
 Remedial Investigation
 Bothell, Washington

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 4/8/2014
 DATE COMPLETED: 4/8/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-7

PAGE: 1 of 1

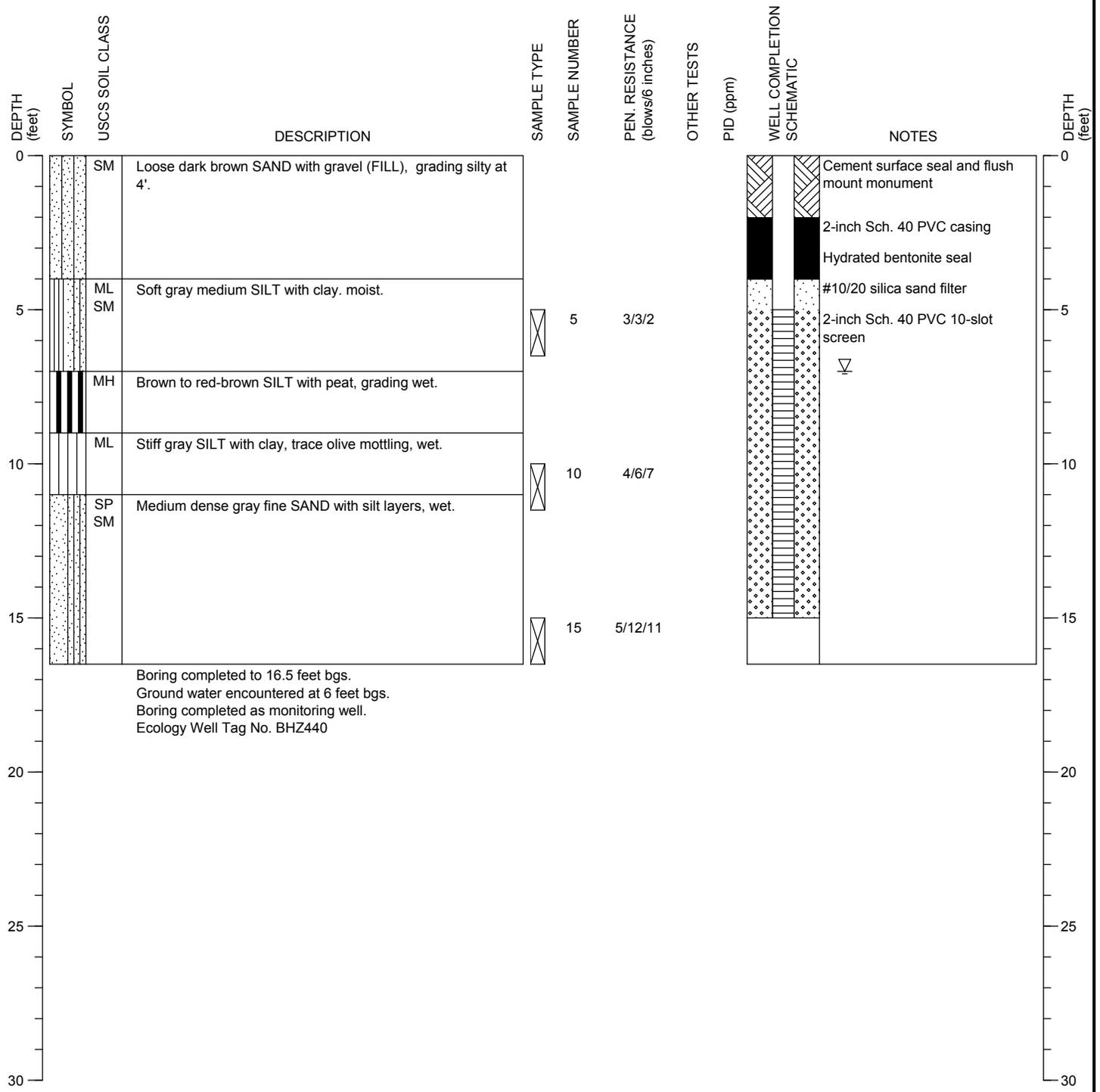


Area Wide Monitoring
 Bothell, Washington

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 4/9/2014
 DATE COMPLETED: 4/9/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-8

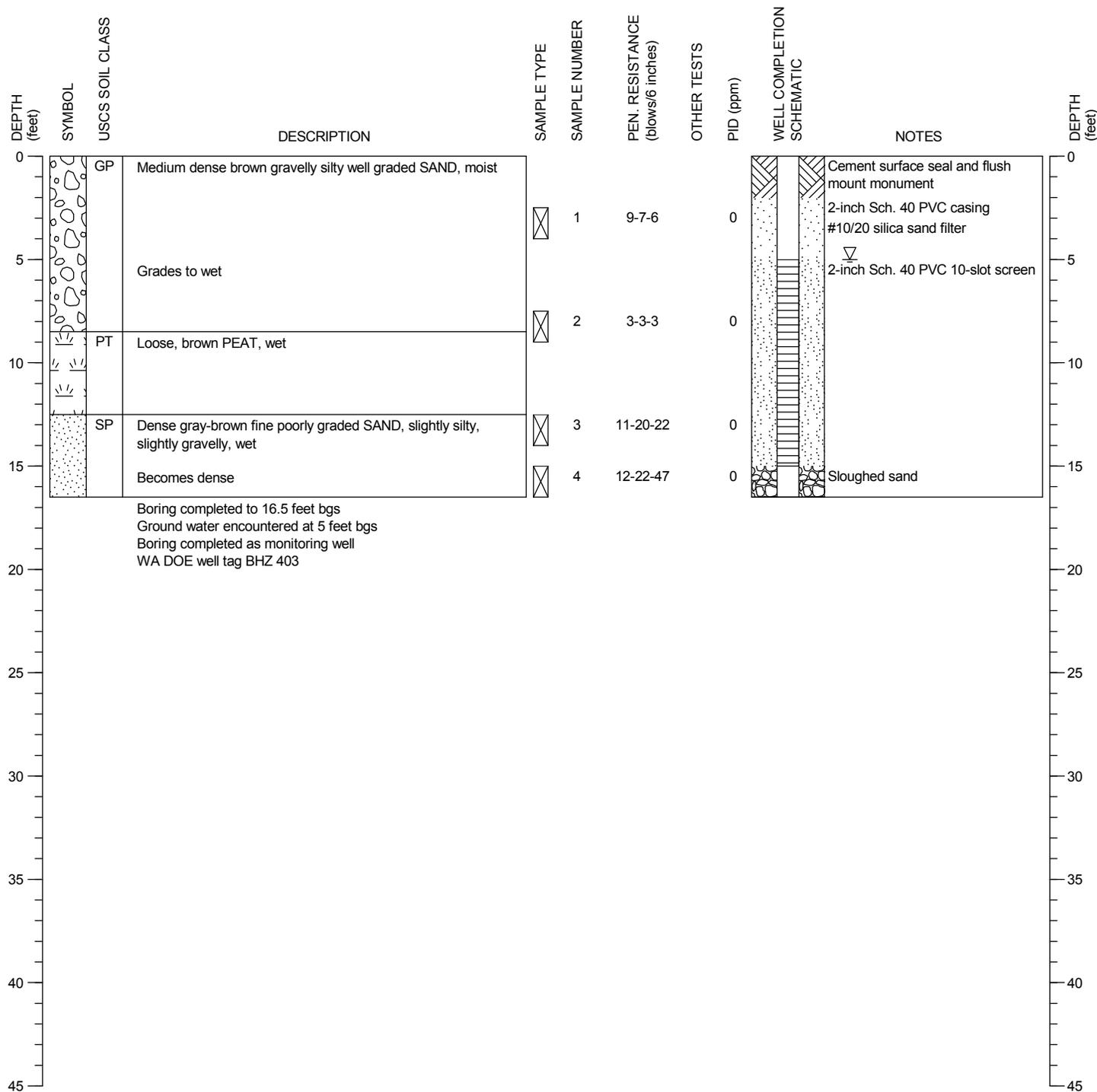


Area Wide Monitoring
 Bothell, Washington

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 1/8/2014
 DATE COMPLETED: 1/8/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Remedial Investigation
 Bothell, Washington

MONITORING WELL:
 UCCMW-9

PAGE: 1 of 1

PROJECT NO.: 2007-098-996

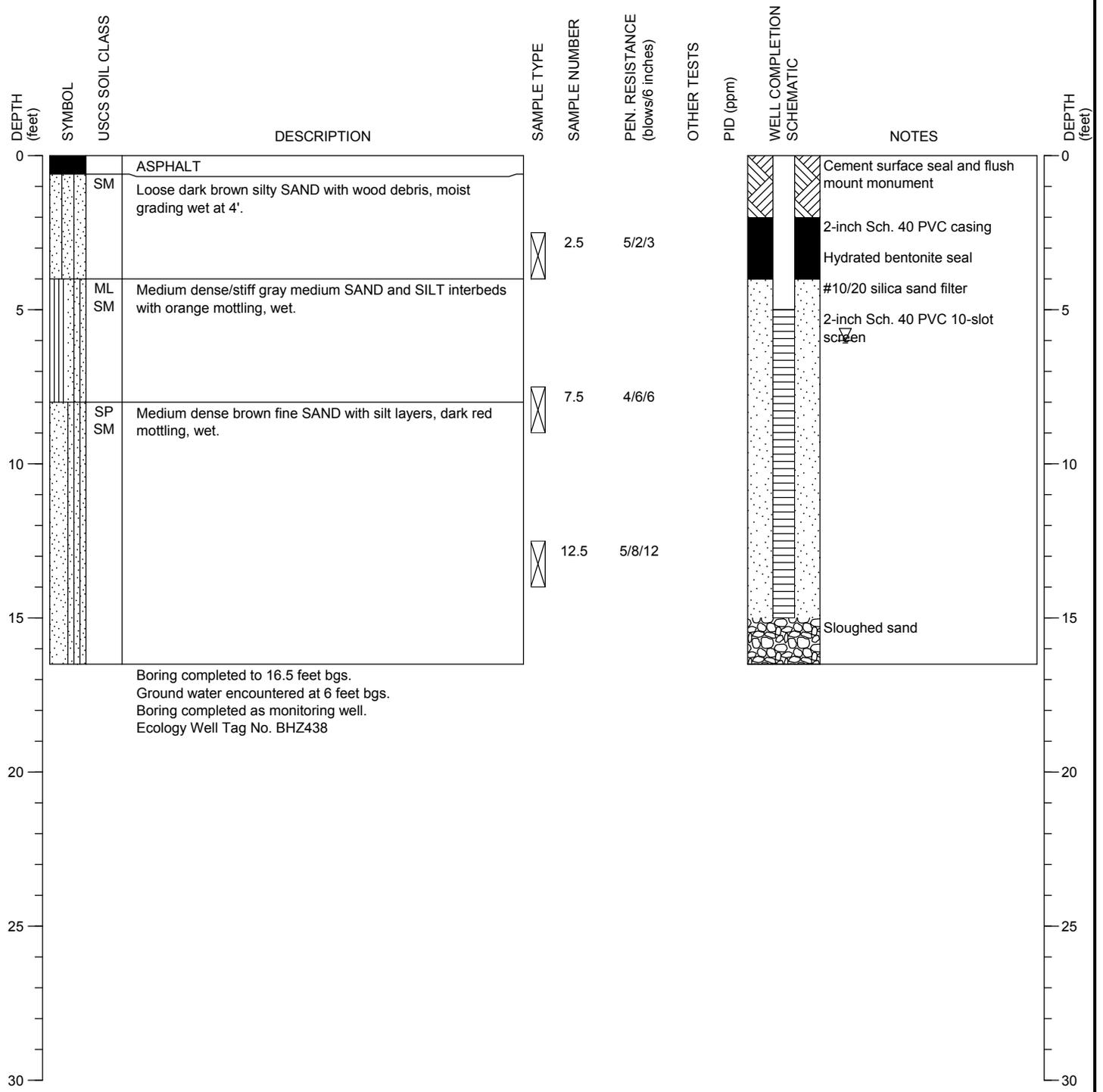
FIGURE:

A-33

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 4/7/2014
 DATE COMPLETED: 4/7/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-10

PAGE: 1 of 1

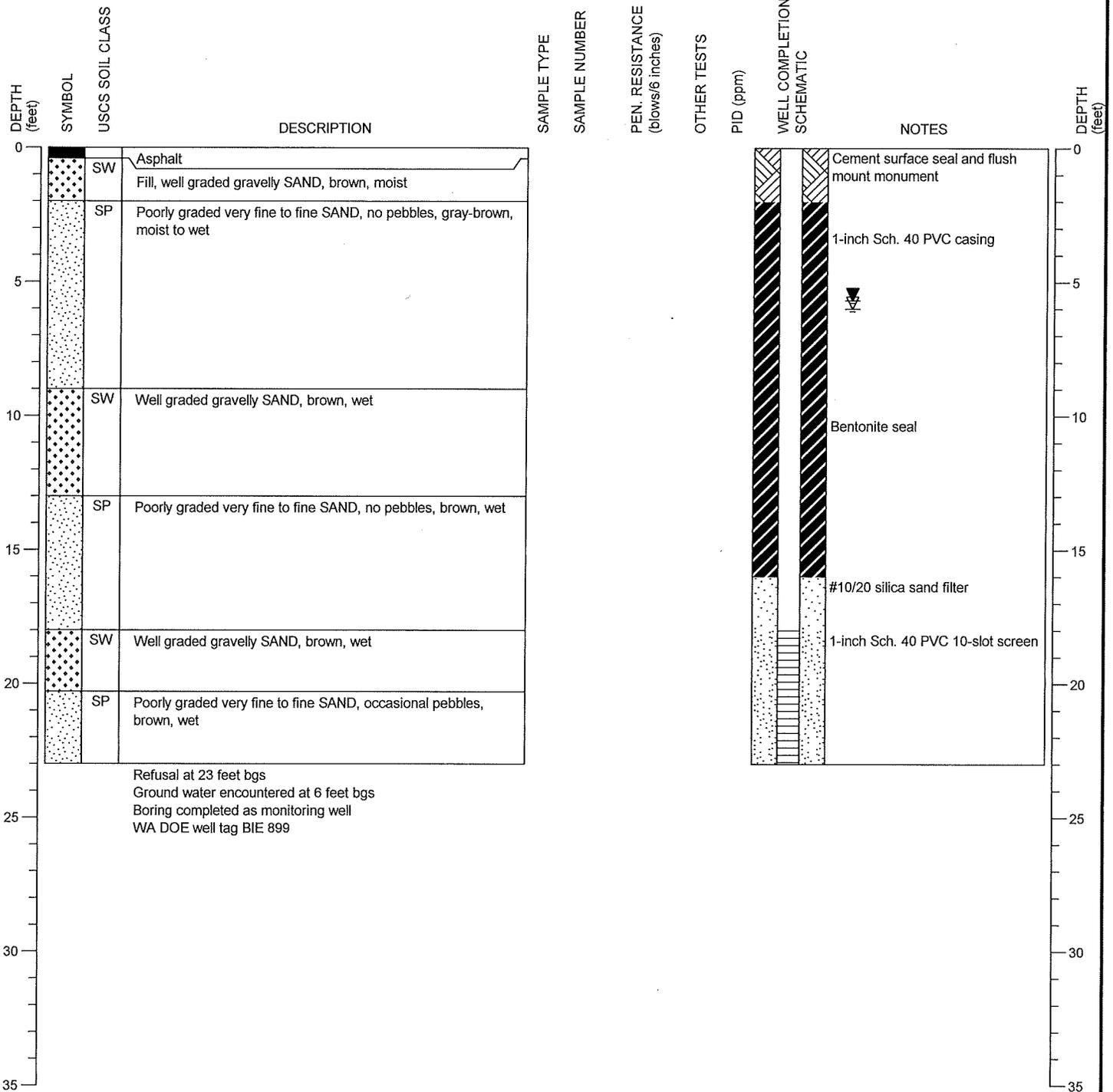


Area Wide Monitoring
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 5/14/2014
 DATE COMPLETED: 5/14/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-11D

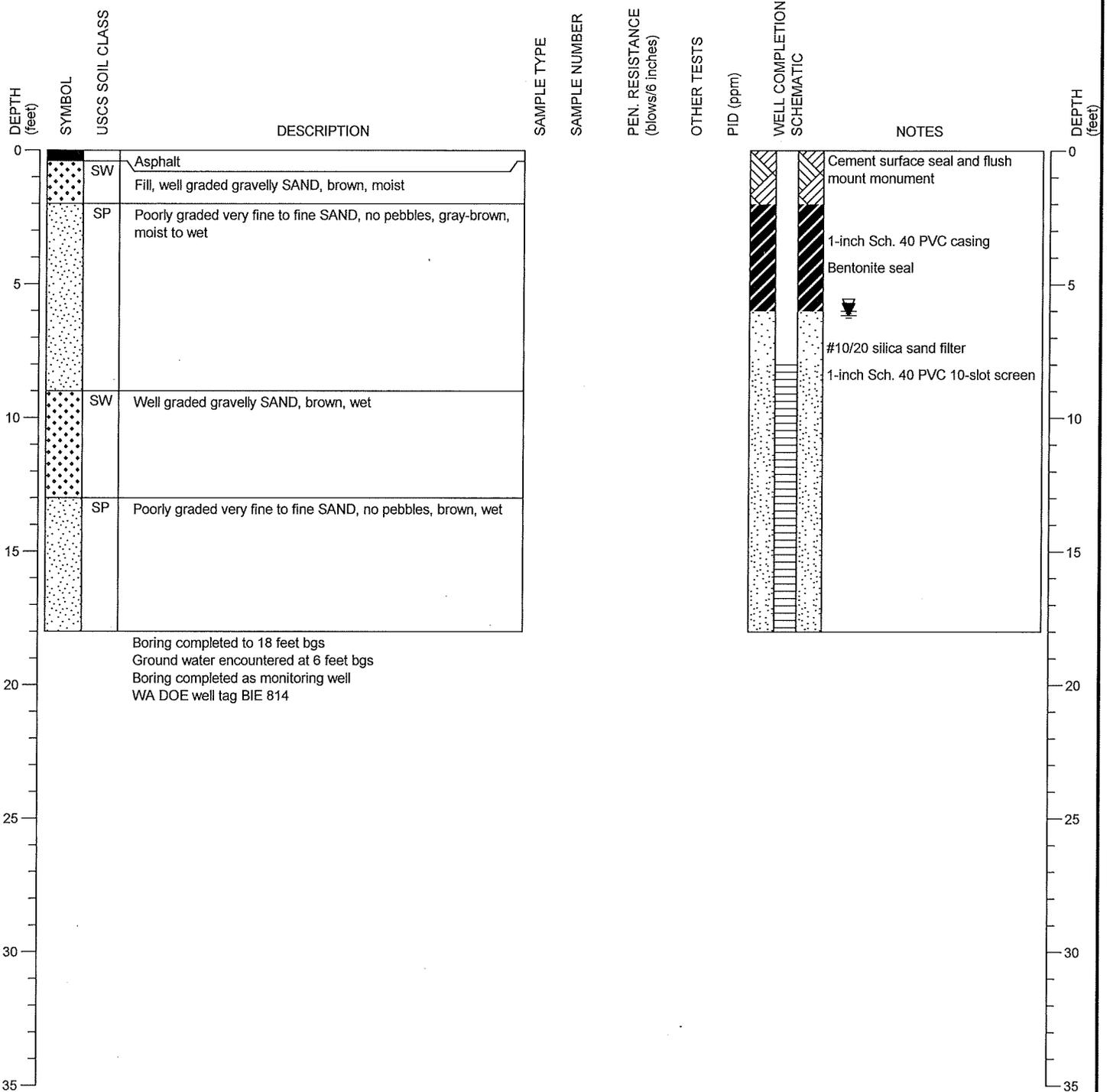


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 5/6/2014
 DATE COMPLETED: 5/6/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-11S

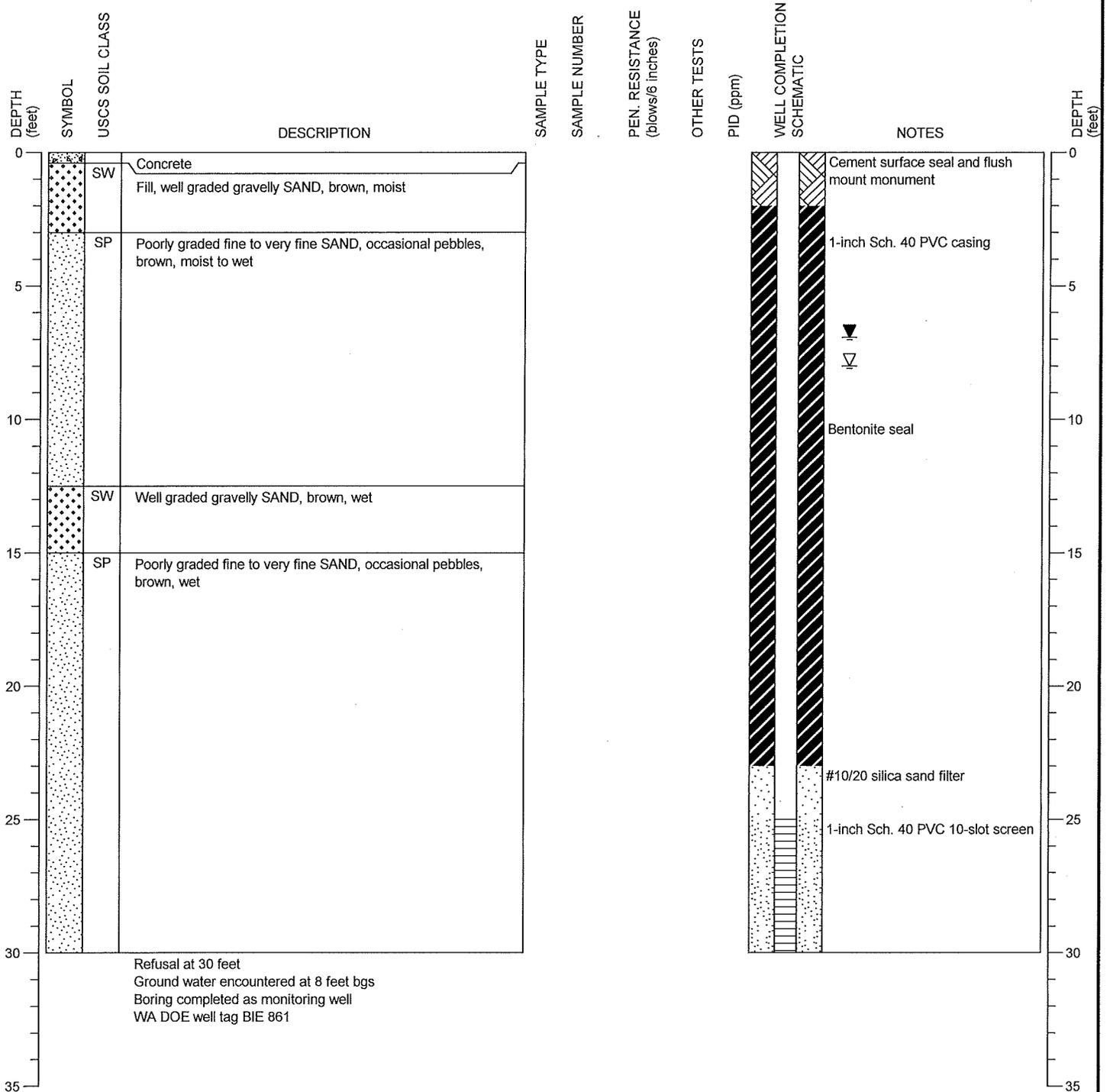


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/12/2014
 DATE COMPLETED: 5/12/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-12D

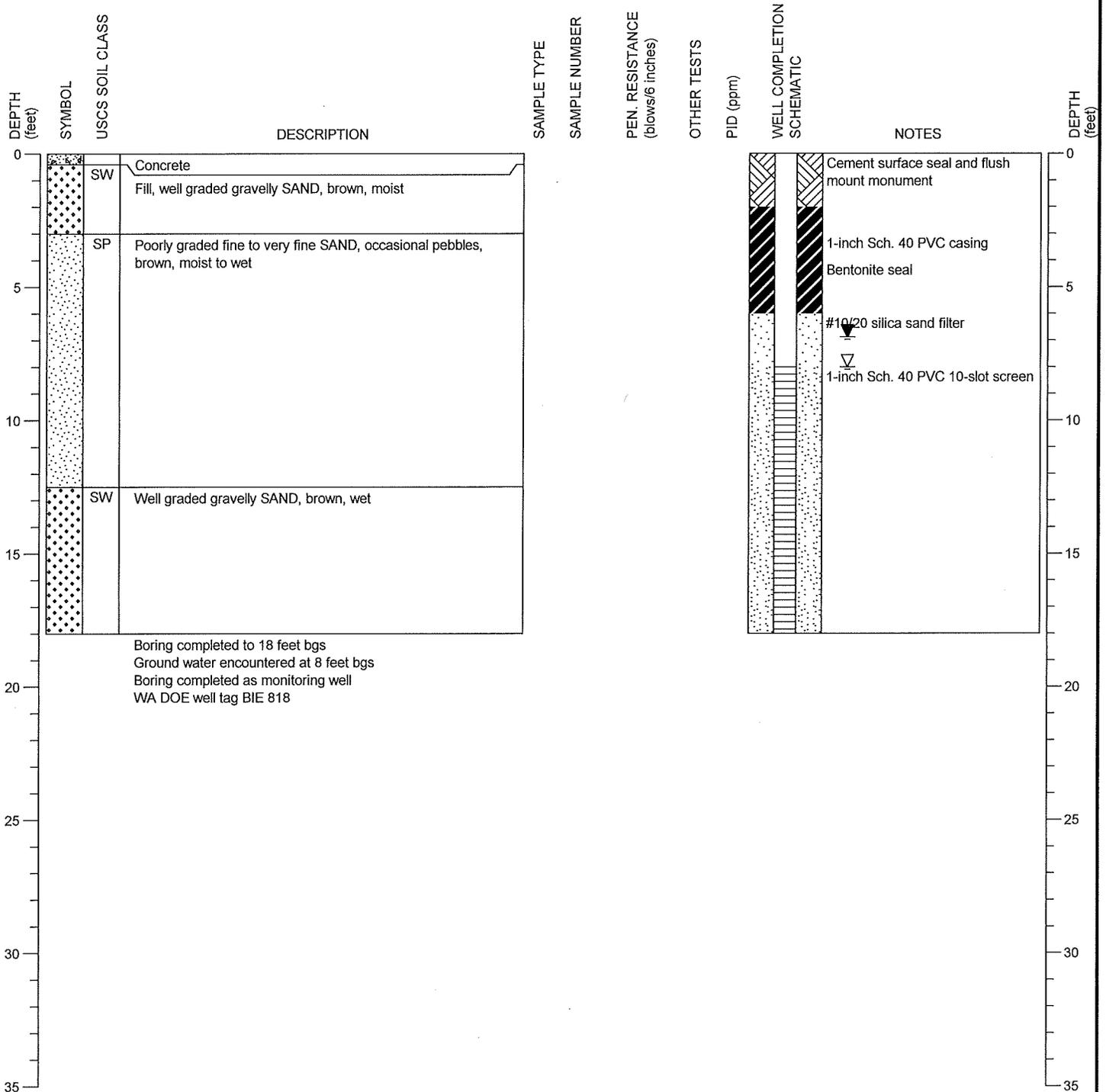


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/8/2014
 DATE COMPLETED: 5/8/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-12S

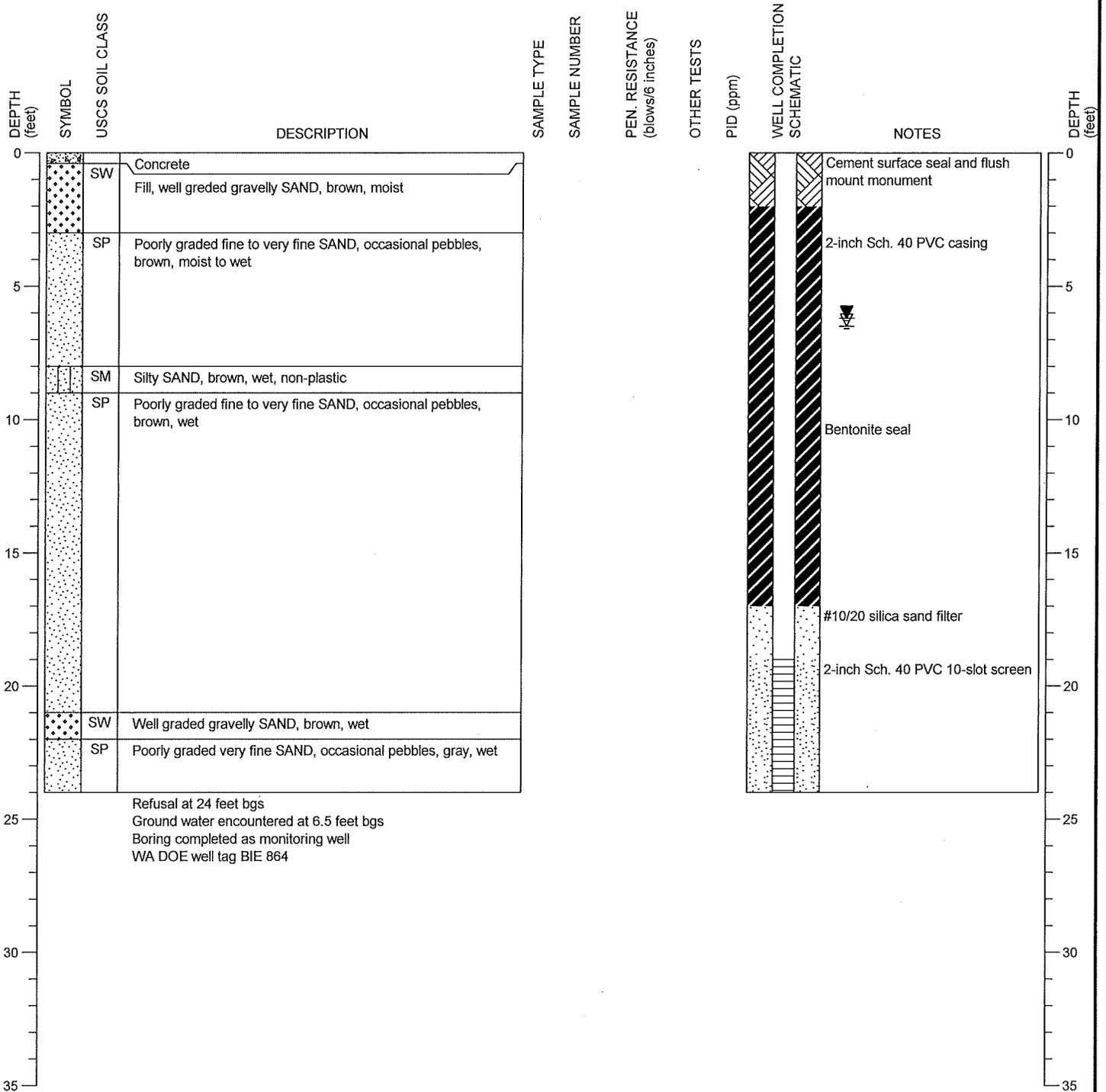


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/14/2014
 DATE COMPLETED: 5/14/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



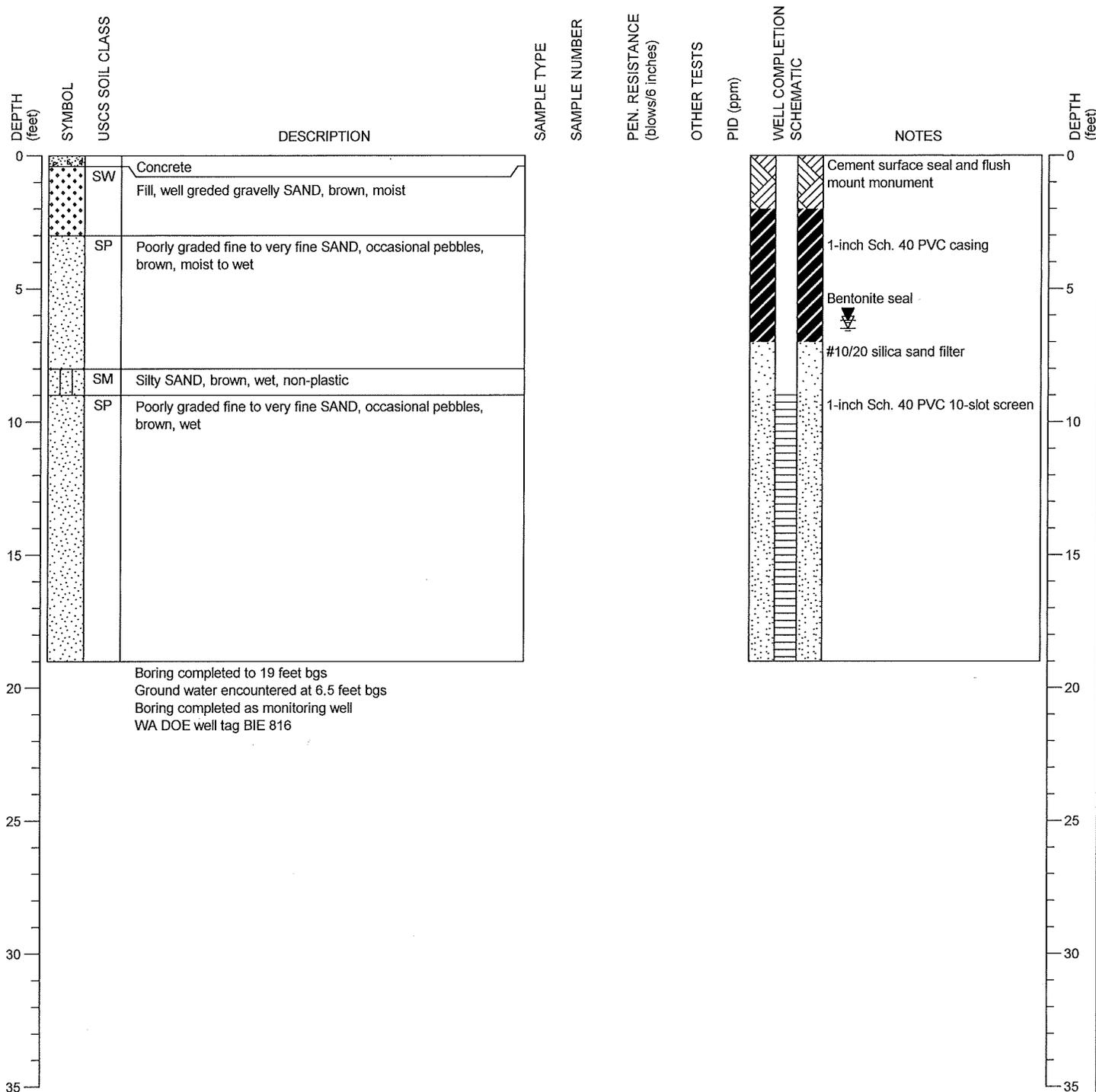
Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

MONITORING WELL:
 UCCMW-13D

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/8/2014
 DATE COMPLETED: 5/8/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



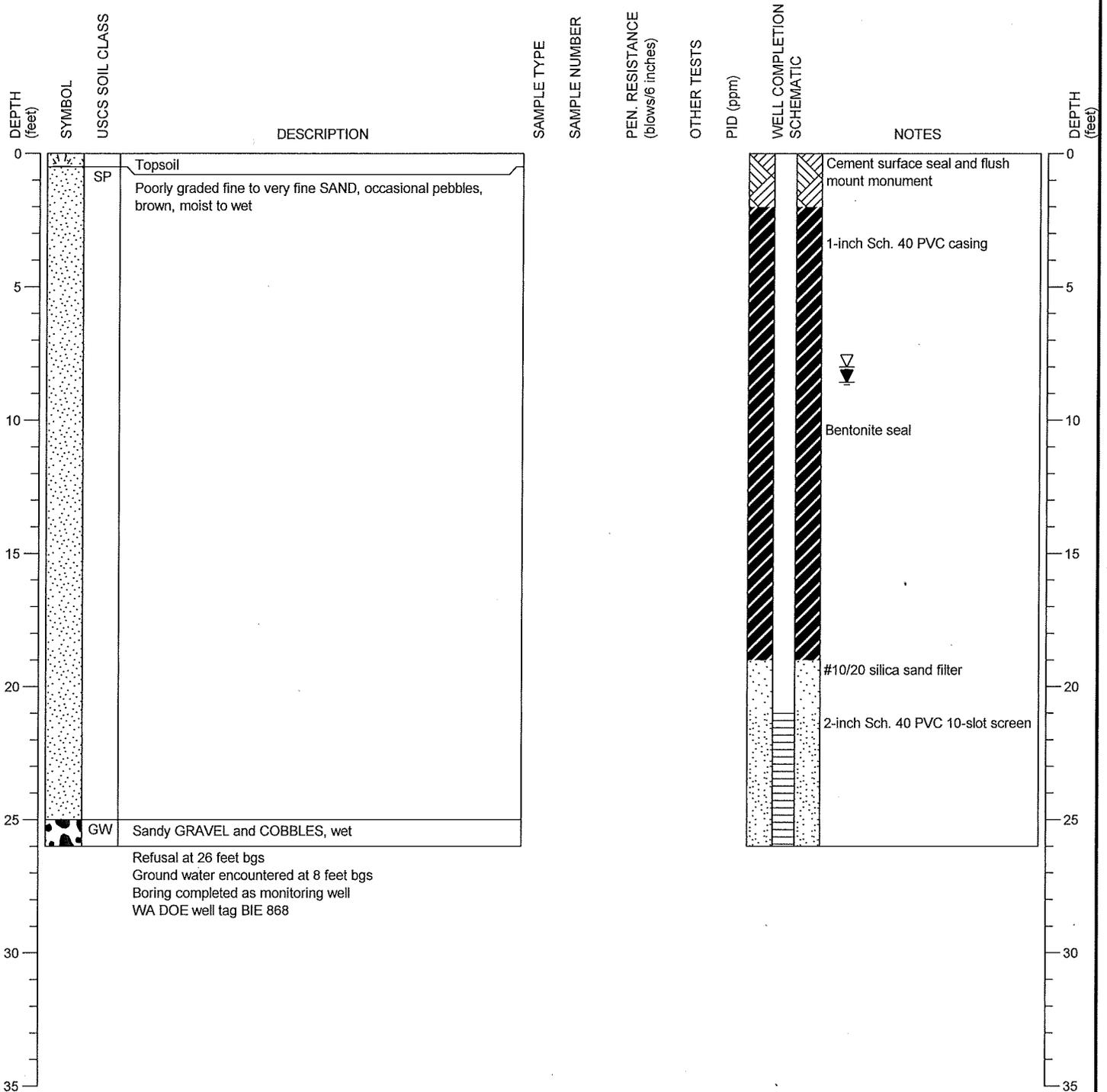
Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

MONITORING WELL:
 UCCMW-13S

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/12/2014
 DATE COMPLETED: 5/12/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-14D

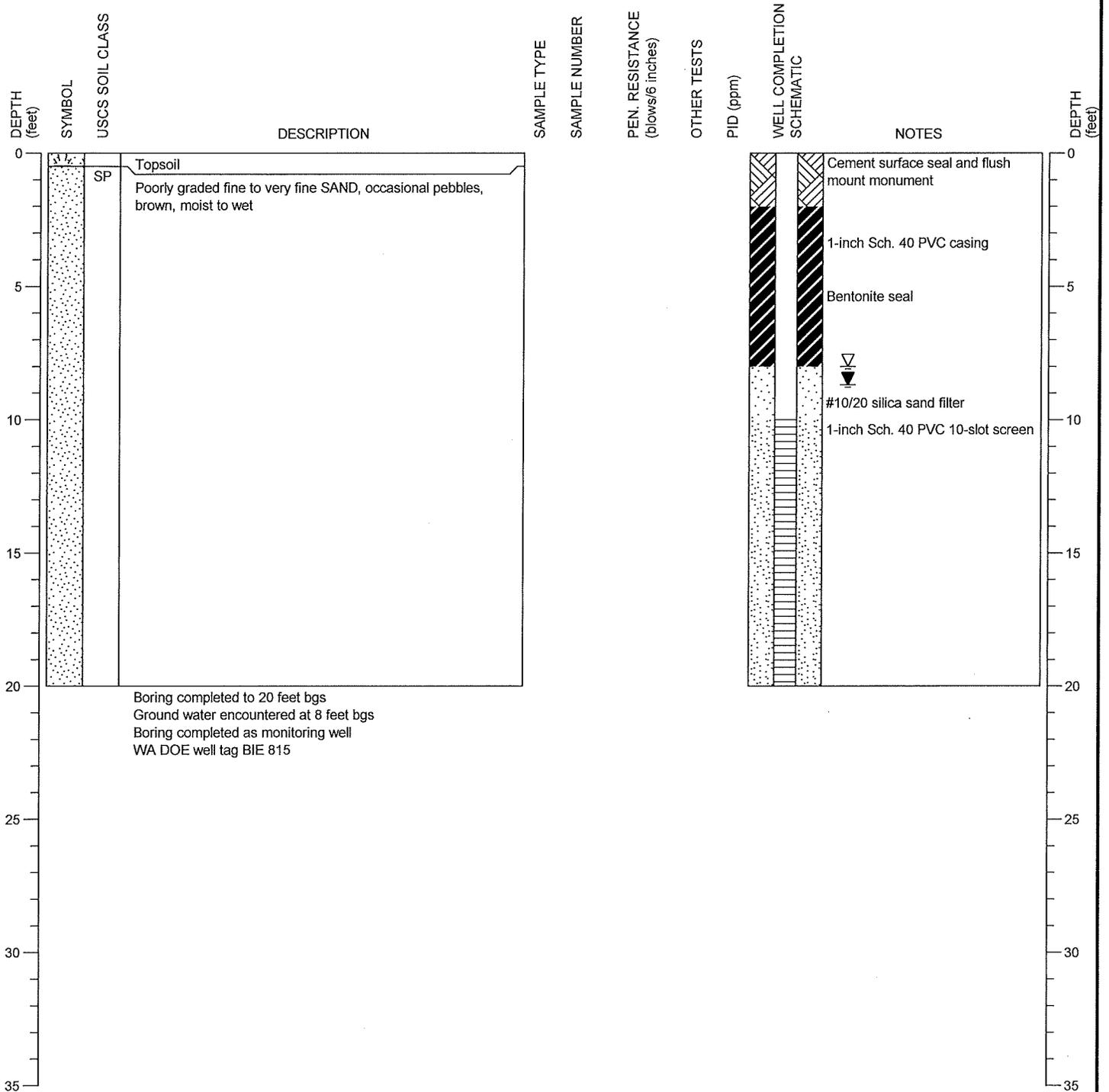


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 5/8/2014
 DATE COMPLETED: 5/8/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-14S

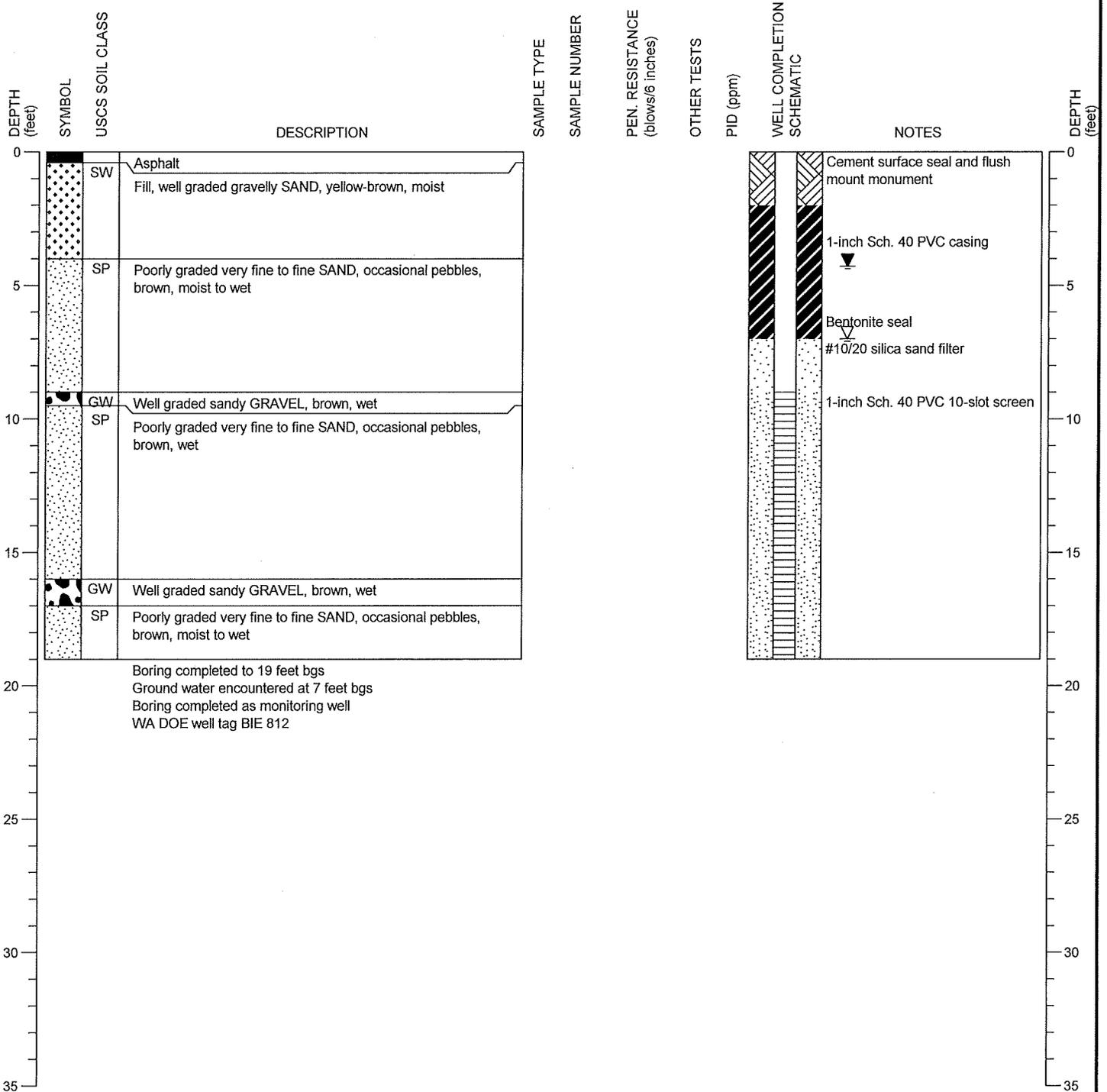


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 5/6/2014
 DATE COMPLETED: 5/6/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

MONITORING WELL:
 UCCMW-16

PAGE: 1 of 1

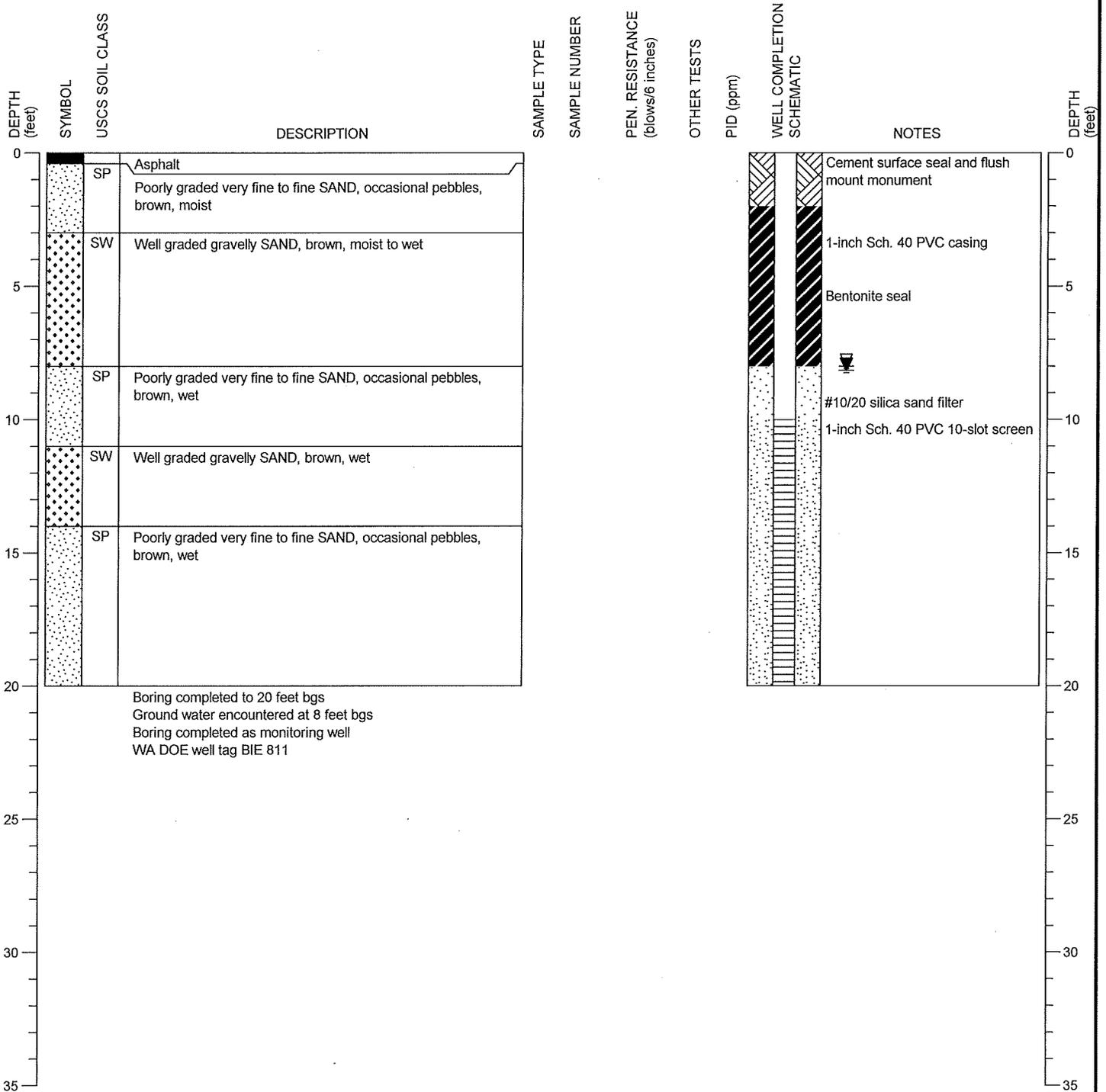
PROJECT NO.: 2007-098-2003 FIGURE:

A-

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/6/2014
 DATE COMPLETED: 5/6/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-17

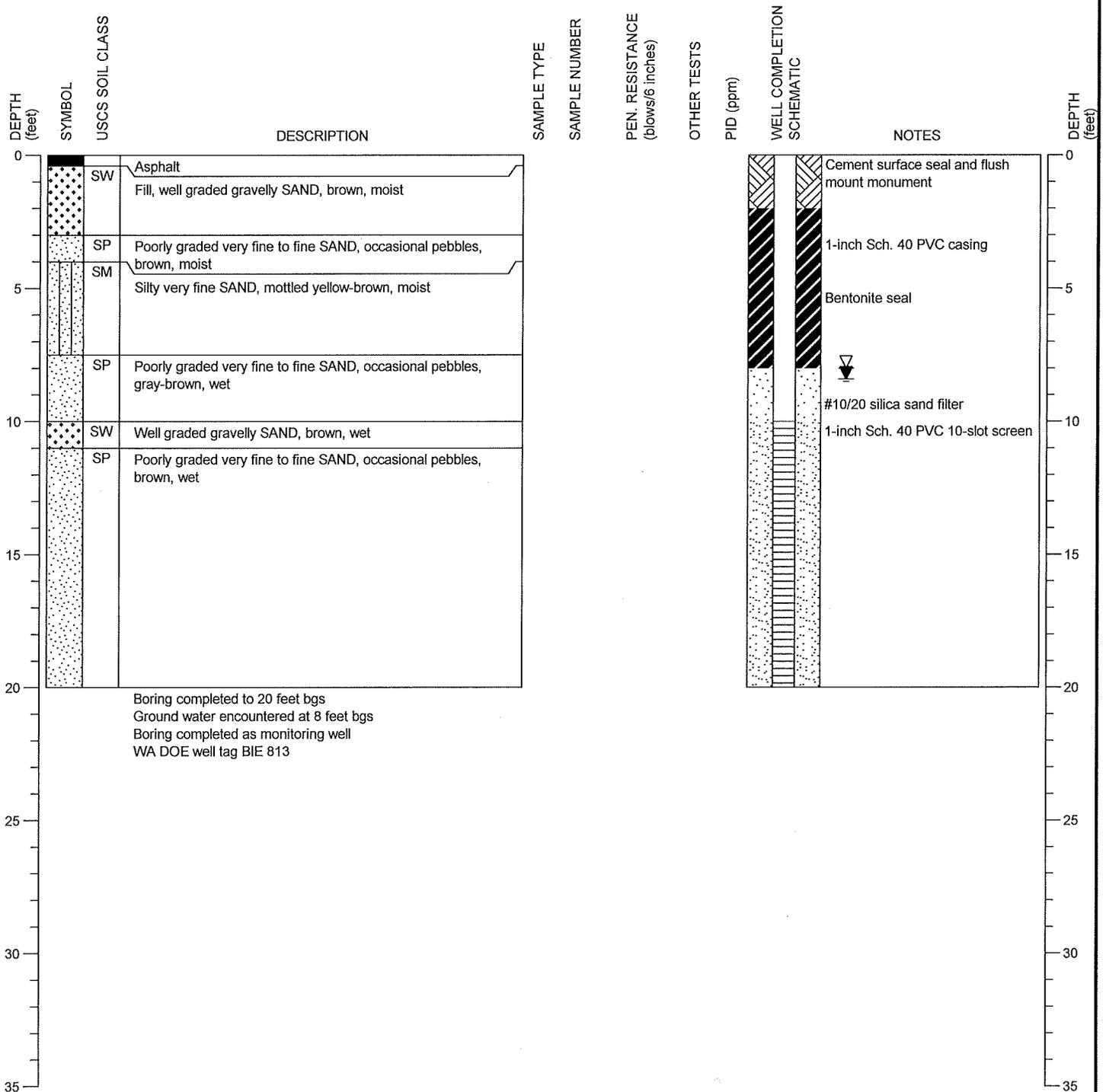


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/9/2014
 DATE COMPLETED: 5/9/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-18

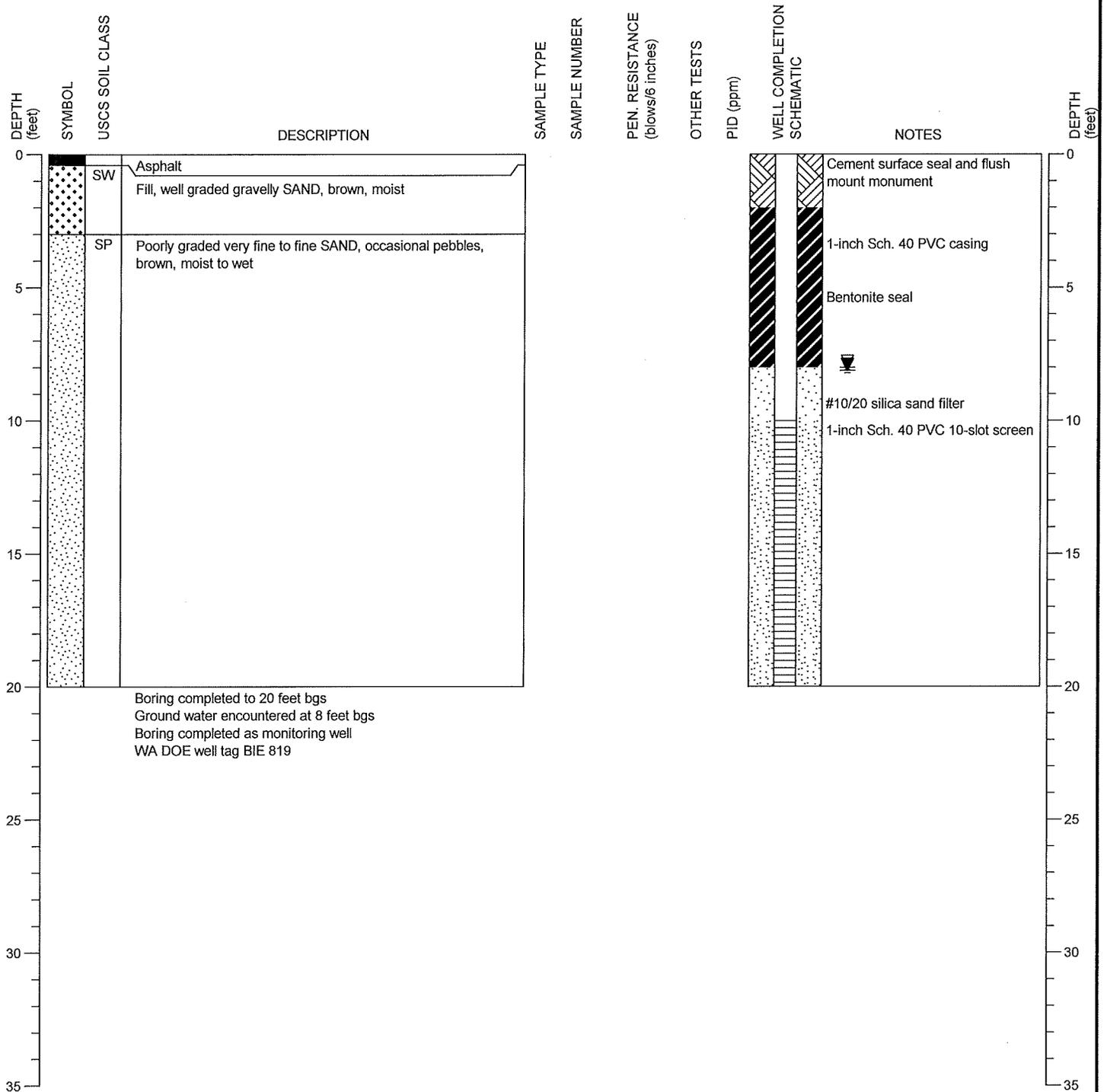


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/8/2014
 DATE COMPLETED: 5/8/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

MONITORING WELL:
 UCCMW-19

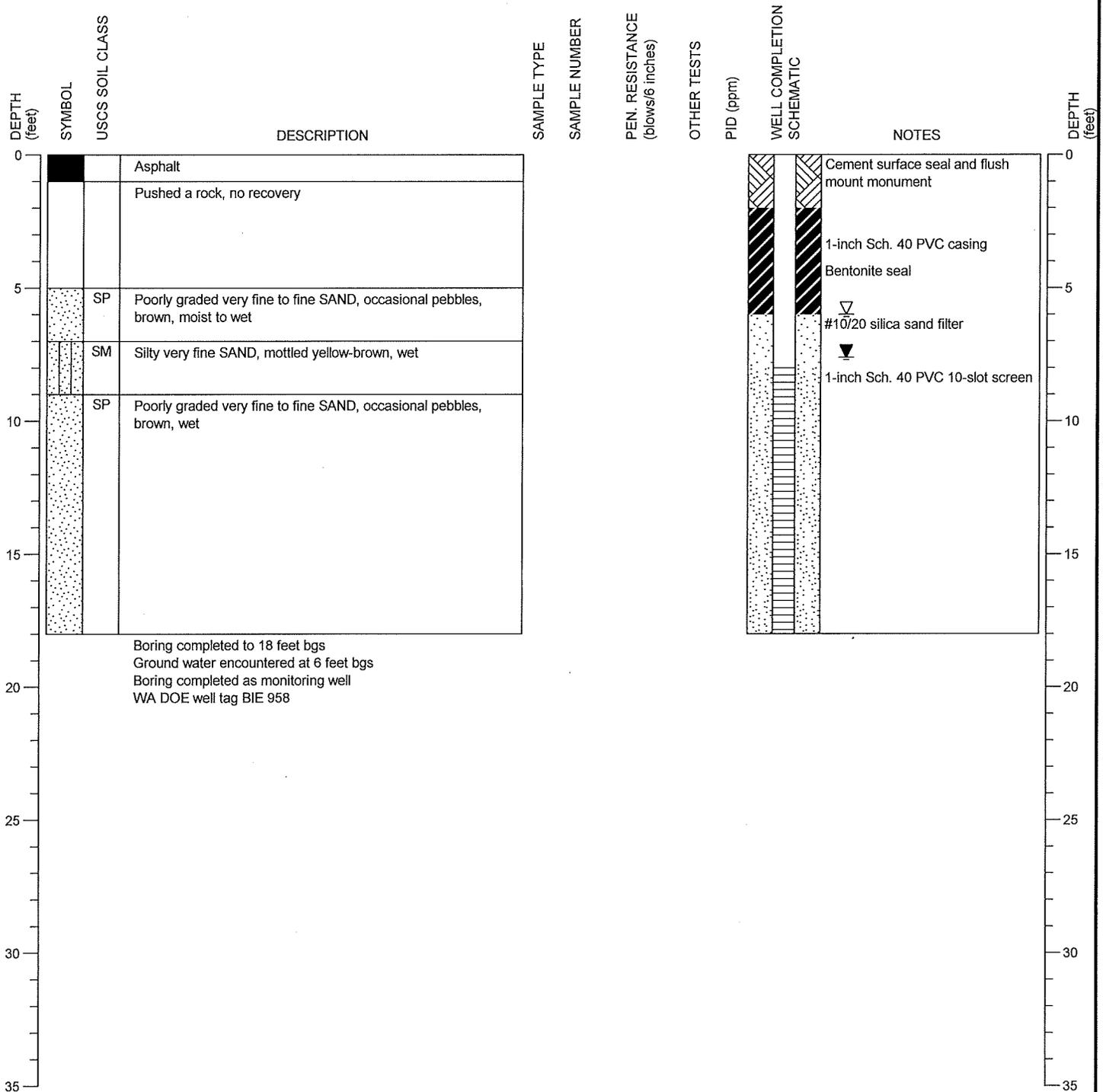
PAGE: 1 of 1

PROJECT NO.: 2007-098-2003 FIGURE: A-

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 5/9/2014
 DATE COMPLETED: 5/9/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-20

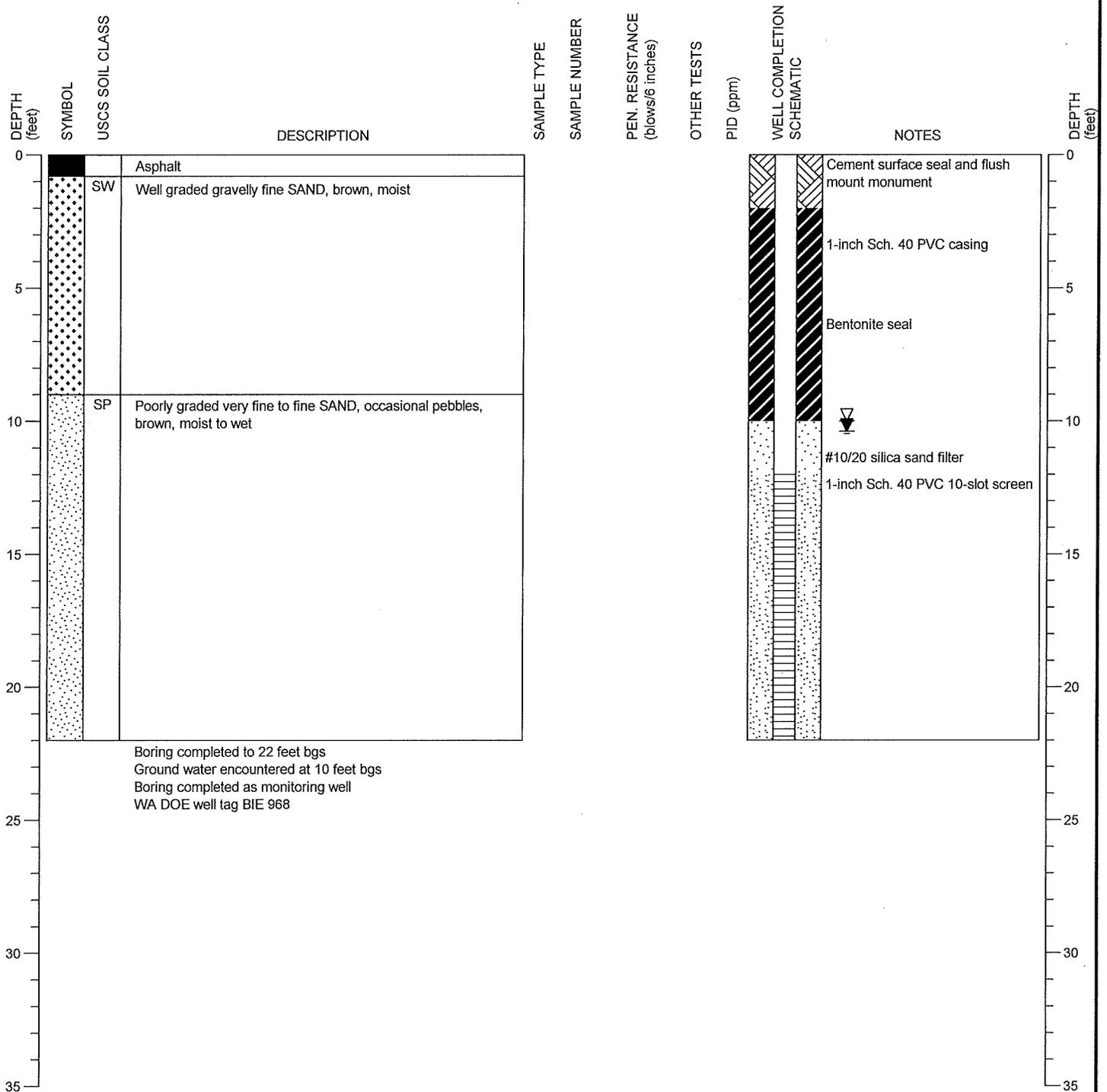


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/9/2014
 DATE COMPLETED: 5/9/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-21

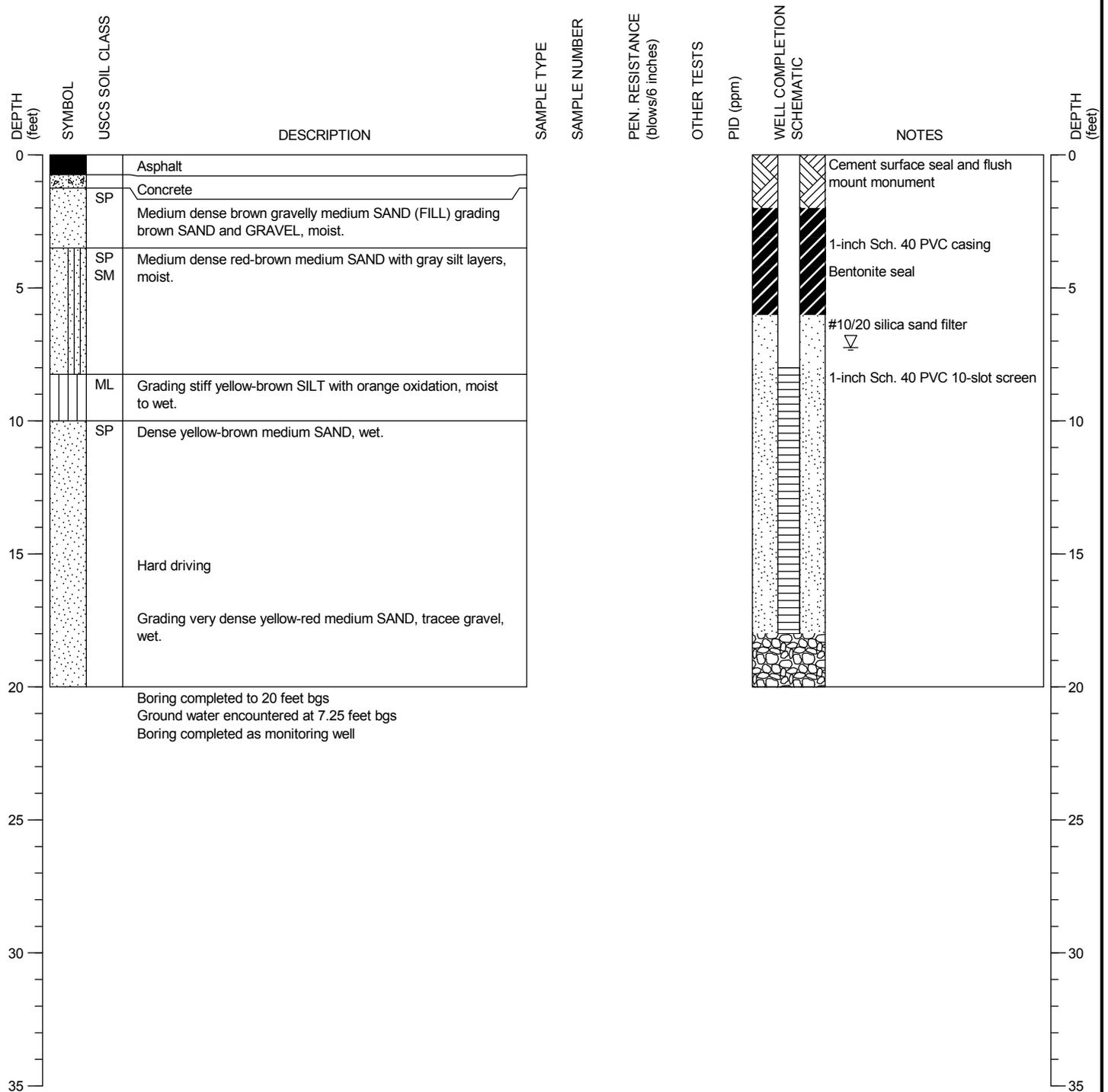


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 5/28/2014
 DATE COMPLETED: 5/28/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

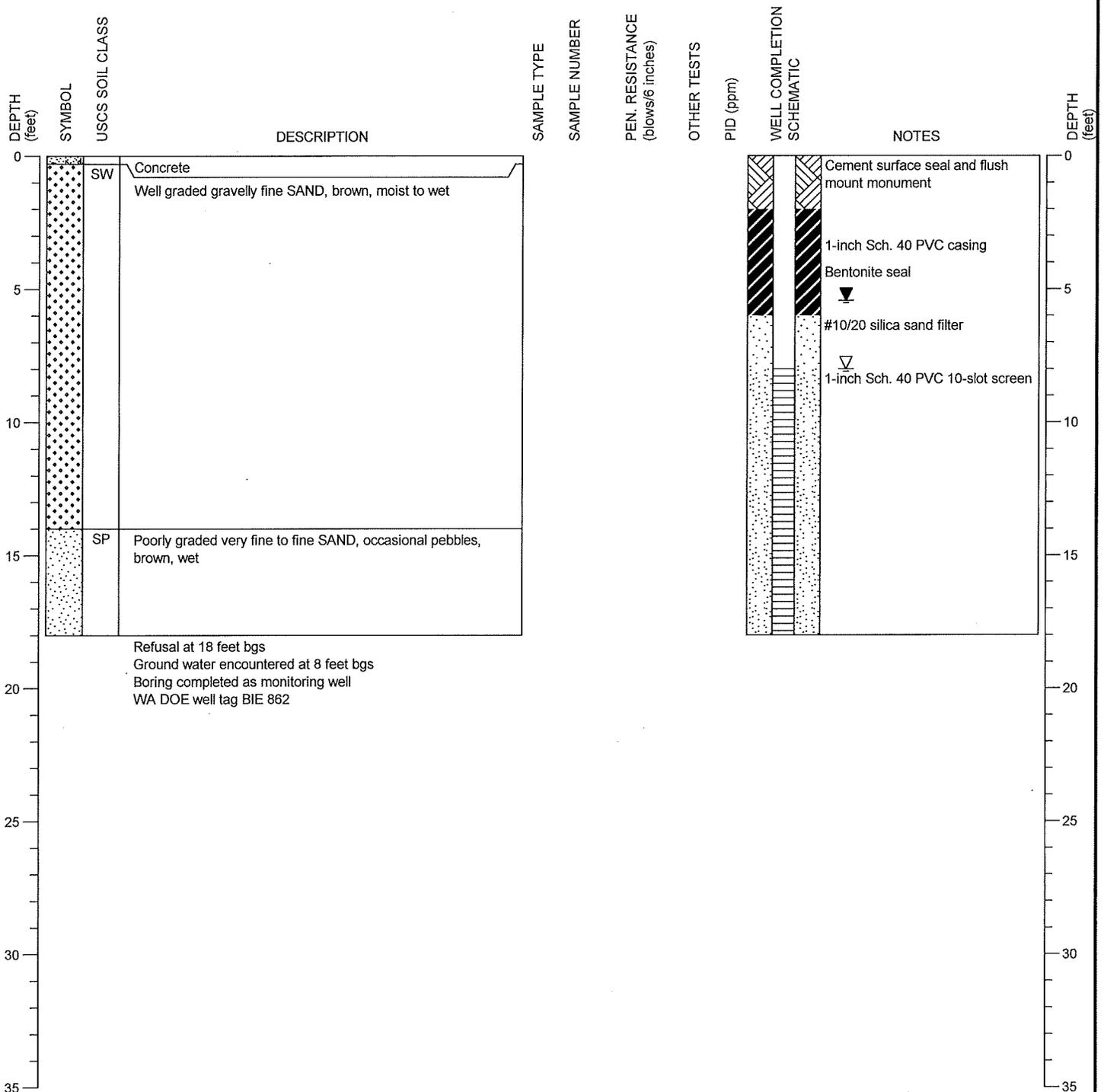
MONITORING WELL:
 UCCMW-22

PAGE: 1 of 1

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/13/2014
 DATE COMPLETED: 5/13/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

MONITORING WELL:
 UCCMW-23

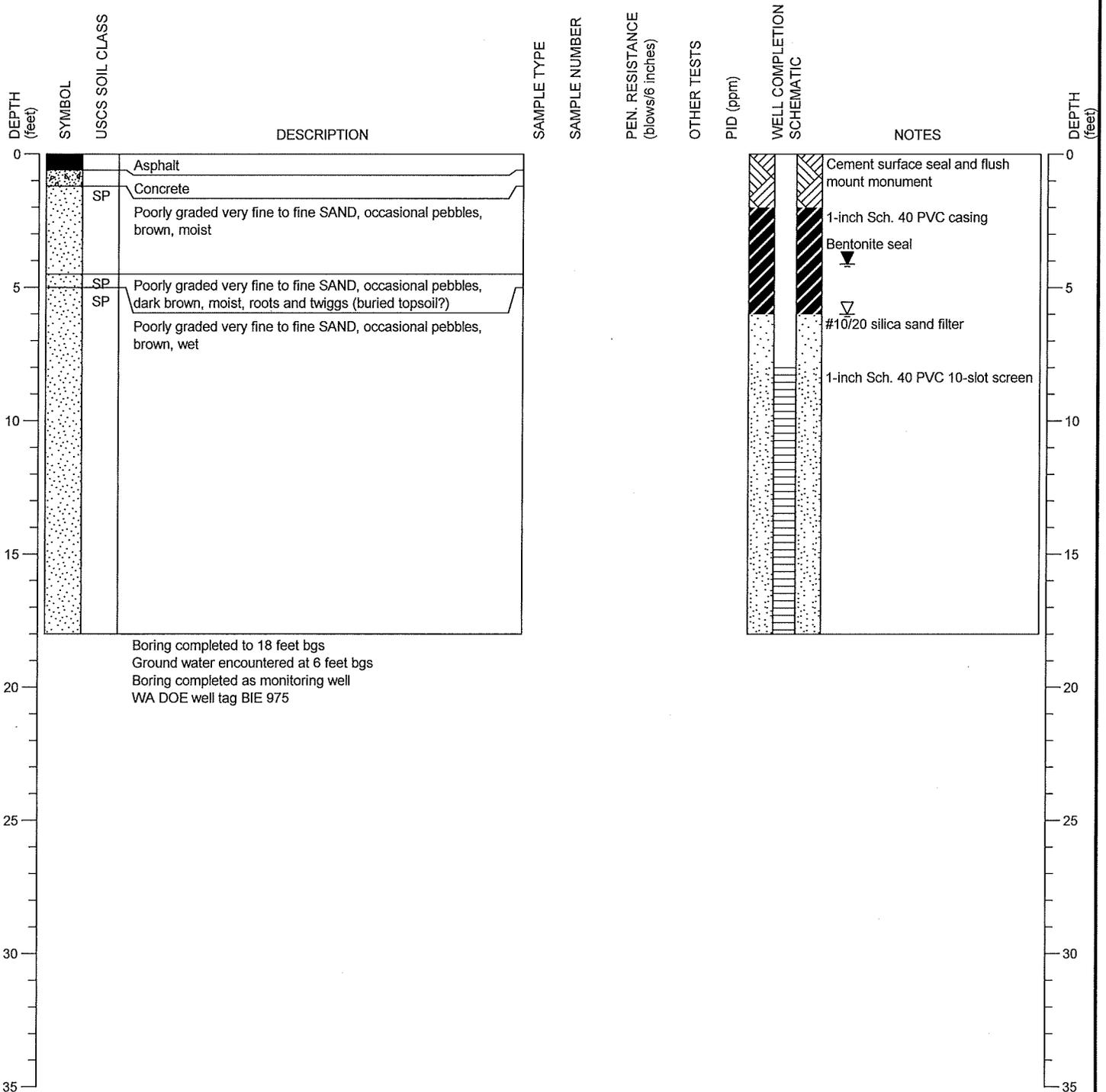


Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Direct-Push
 SAMPLING METHOD: 60" Macrocore with HDPE liner
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 5/9/2014
 DATE COMPLETED: 5/9/2014
 LOGGED BY: N. Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

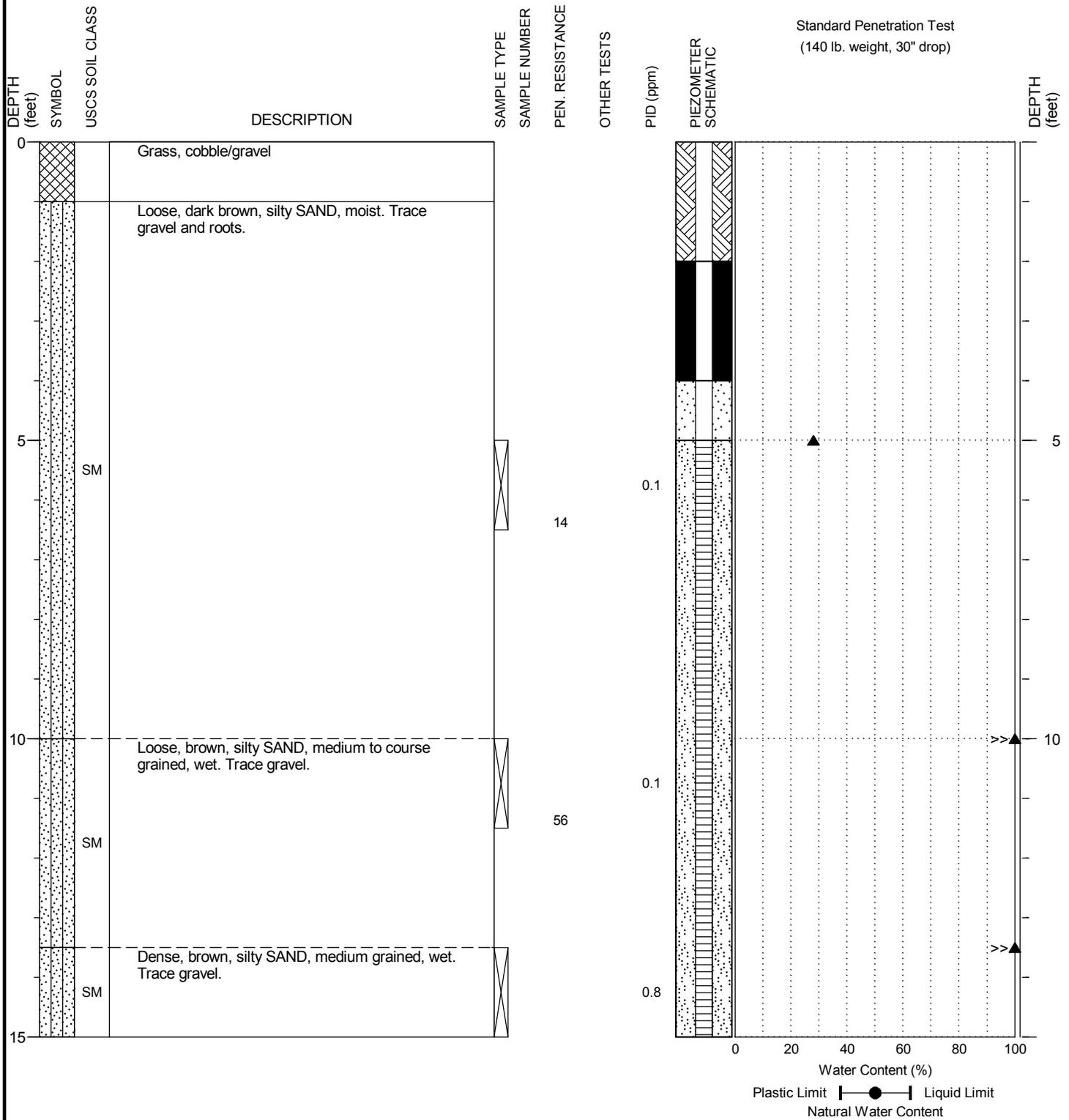
MONITORING WELL:
 UCCMW-25



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

DRILLING COMPANY:
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD:
 LOCATION:

DATE STARTED: 1/16/2015
 DATE COMPLETED: 1/16/2015
 LOGGED BY: K. Stilson



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

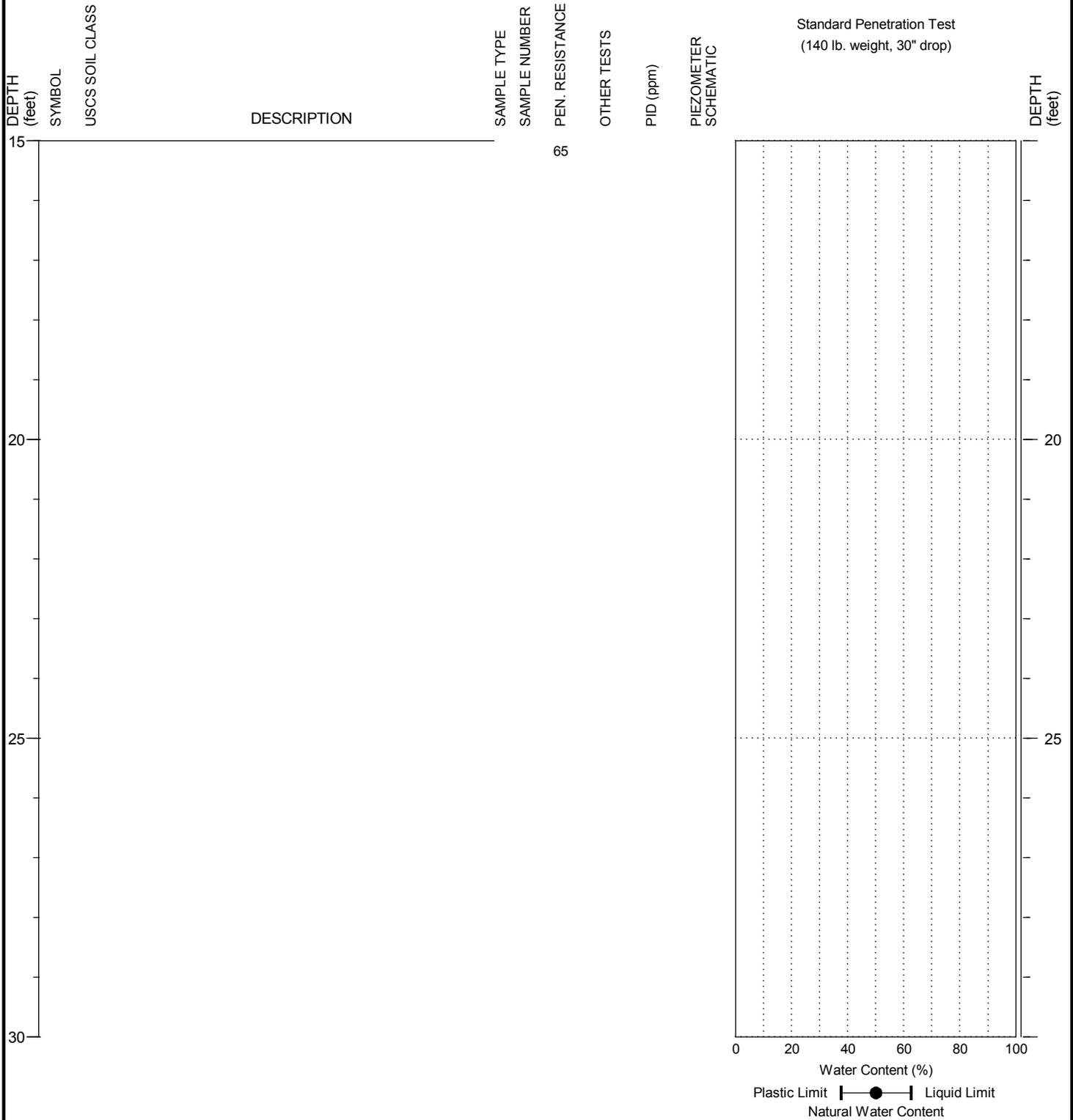
BORING:
 UCCMW-26

PAGE: 1 of 2

PROJECT NO.: 2007-098-2003 FIGURE: A-

DRILLING COMPANY:
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD:
 LOCATION:

DATE STARTED: 1/16/2015
 DATE COMPLETED: 1/16/2015
 LOGGED BY: K. Stilson



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

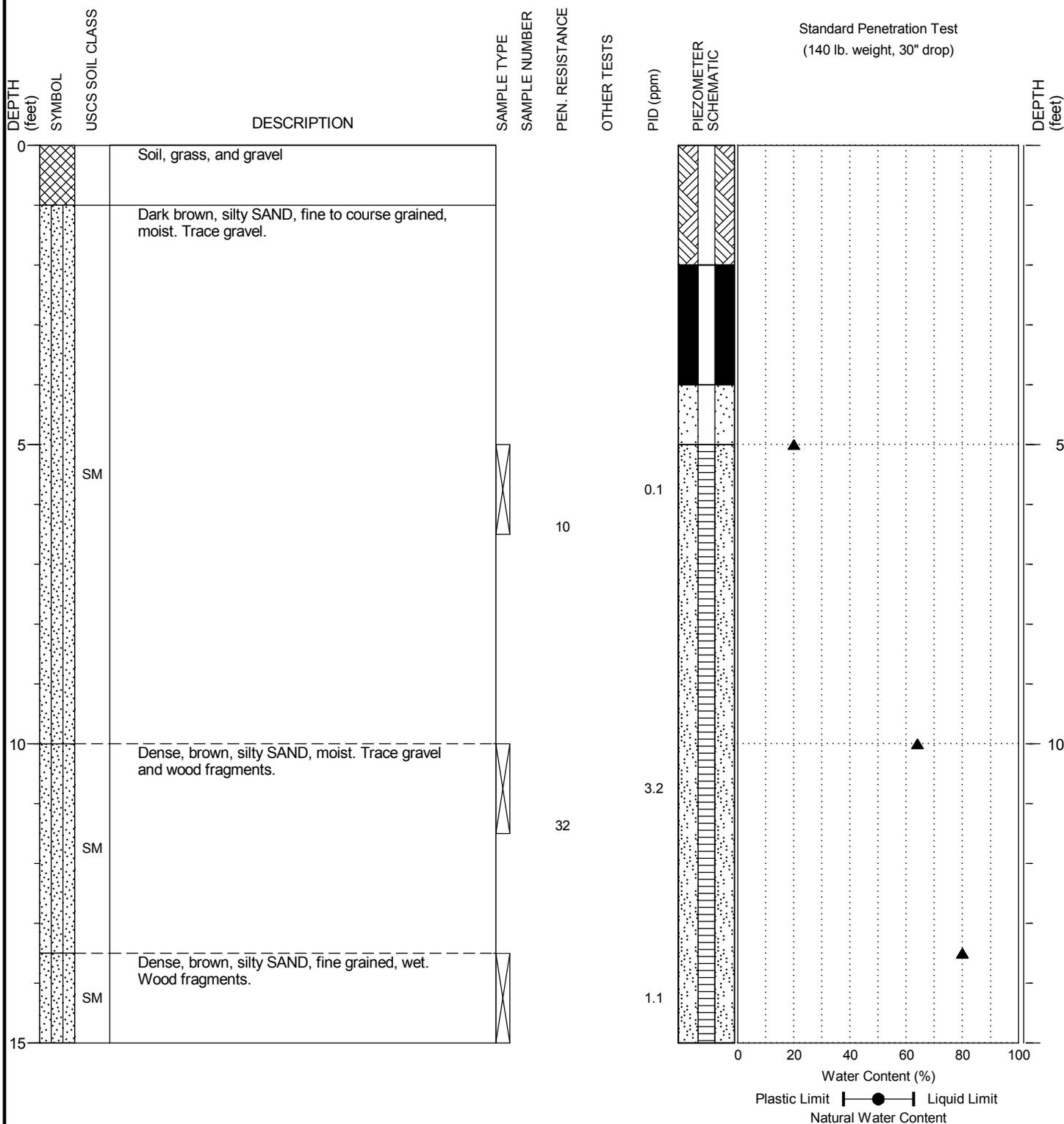
BORING:
 UCCMW-26

PAGE: 2 of 2

PROJECT NO.: 2007-098-2003 FIGURE: A-

DRILLING COMPANY:
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD:
 LOCATION:

DATE STARTED: 1/28/2015
 DATE COMPLETED: 1/28/2015
 LOGGED BY: K. Stilson



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

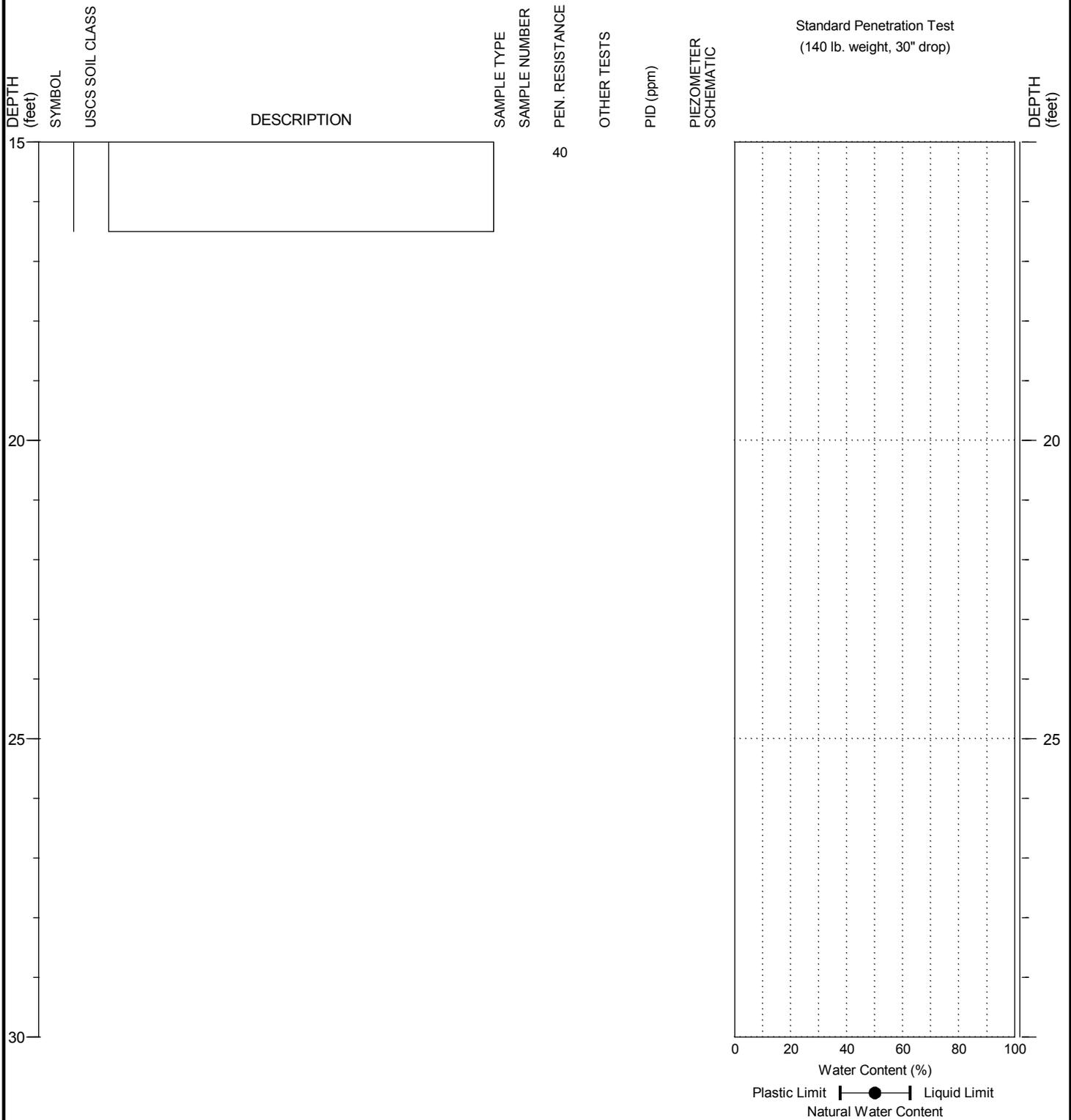
BORING:
 UCCMW-27

PAGE: 1 of 2

PROJECT NO.: 2007-098-2003 FIGURE: A-

DRILLING COMPANY:
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD:
 LOCATION:

DATE STARTED: 1/28/2015
 DATE COMPLETED: 1/28/2015
 LOGGED BY: K. Stilson



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Ultra Custom Care Cleaners
 Interim Action
 Bothell, Washington

BORING:
 UCCMW-27

PAGE: 2 of 2

NEIS BORING LOG 19897-68445-BOTHELL ROW.GPJ CDM_BLLV.GDT 5/22/09 REV.

Boring Log B1								Elev. (feet)
Other Tests	Sample No.	Moisture Content (%)	Dry Density (pcf)	PIB (ppm) (reading/background)	Penetration Resistance (blows / 6 in.)	Depth (feet)	USCS Symbol	
						0		8" Asphalt.
						0.5		8" Concrete.
	B1-6					2		Silty SAND (SM), olive-gray, with fine to coarse gravel (20%), rounded, diam. 1/4-1", medium dense, moist.
						4		
						0.8		Decreasing gravel (5-10%), becomes wet.
	B1-W					6		
						8	SM	
						10		
						0.9		Boring terminated at 14 ft bgs. Groundwater encountered at 8 ft bgs.
						12		
						14		
						16		
						18		
						20		

Station: _____ Drill Rig: DPT
 Surface Elevation: _____ Equipment/Hammer: Continuous Core/
 Logged By: AW Date Completed: 4-6-09

King County
Bothell Crossroads Redevelopment Project
Bothell, Washington

Boring Log B1 Figure: A-2
 Project No: 19897.68445



NEIS_BORING_LOG_19897-68445-BOTHELL_ROW.GPJ_CDM_BLLV.GDT_5/22/09_REV.

Boring Log B2										
Other Tests	Sample No.	Moisture Content (%)	Dry Density (pcf)	PIB (ppm) (reading/background)	Penetration Resistance (blows / 6 in.)	Depth (feet)	Sample	USCS	Symbol	DESCRIPTION
						0				8" Asphalt.
						0.5				8" Concrete. Empty steel pipe in concrete at 13-14 inches bgs.
	B2-7 B19-7					1.5		SM		Silty SAND (SM), tan, with fine gravel (20%).
						4				
						5		ML		Sandy SILT (ML), black, some organic material (rootlets), moist (Marsh Deposit).
						6				
						6.5				Silty SAND (SM), tan, medium dense, wet, odor.
	B2-W B19-W					8				Becomes saturated.
						8.5		SM		
						10				
						12				Boring terminated at 12 ft bgs. Groundwater encountered at 8 ft bgs.
						14				
						16				
						18				
						20				

Station: _____ Drill Rig: DPT
 Surface Elevation: _____ Equipment/Hammer: Continuous Core/
 Logged By: AW Date Completed: 4-2-09

	King County Bothell Crossroads Redevelopment Project Bothell, Washington
	Boring Log B2 Figure: A-3 Project No: 19897.68445

NEIS BORING LOG 19897-68445-BOTHELL ROW.GPJ CDM_BLLV.GDT 5/22/09 REV.

Other Tests	Sample No.	Moisture Content (%)	Dry Density (pcf)	PI (papi) (reading/background)	Penetration Resistance (blows / 6 in.)	Depth (feet)	Sample	USCS	Symbol	DESCRIPTION	Elev. (feet)
	B3-9					0				8" Asphalt.	
						0.5				8" Concrete.	
						1				Silty SAND (SM), tan, with gravel (20%), medium dense, moist.	
						2				Becomes black, odor.	
						3					
						4	SM			No recovery.	
						5					
						6				Sandy SILT (ML), black, stiff, wet, odor (Marsh Deposit).	
						7					
						8					
						9					
						10					
						11				Decreasing organics.	
						11.5				Increasing sand, becomes saturated.	
						12				Decreasing sand, increasing silt.	
						13	ML				
						14				Boring terminated at 14 ft bgs.	
						14.5				Groundwater encountered at 11 ft bgs.	
						15					
						16					
						17					
						18					
						19					
						20					

Station: _____ Drill Rig: DPT
 Surface Elevation: _____ Equipment/Hammer: Continuous Core/
 Logged By: AW Date Completed: 4-3-09

King County
Bothell Crossroads Redevelopment Project
Bothell, Washington

Boring Log B3 Figure: A-4
 Project No: 19897.68445



NEIS_BORING_LOG_19897-68445-BOTHELL ROW.GPJ CDM_BLLV.GDT 5/22/09 REV.

Other Tests	Sample No.	Moisture Content (%)	Dry Density (pcf)	PIB (ppm) [reading/background]	Penetration Resistance (blows / 6 in.)	Depth (feet)	Sample	USCS	Symbol	DESCRIPTION	Elev. (feet)
						0				8" Asphalt.	
						0				8" Concrete.	
						2				Silty SAND (SM), yellow-red, with gravel (15%), gravel is subangular, medium dense, moist.	
						4				Increasing density, gravel becomes rounded.	
			0.6			6		SM			
						8				Decreasing gravel, sand becomes medium grained, becomes wet.	
	B7-9		0.8			10				Becomes saturated at 10 ft bgs. SILT (ML), light gray, stiff, wet.	
			0.8			12		ML			
						14					
						16				Boring terminated at 14 ft bgs. Groundwater encountered at 10 ft bgs.	
						18					
						20					

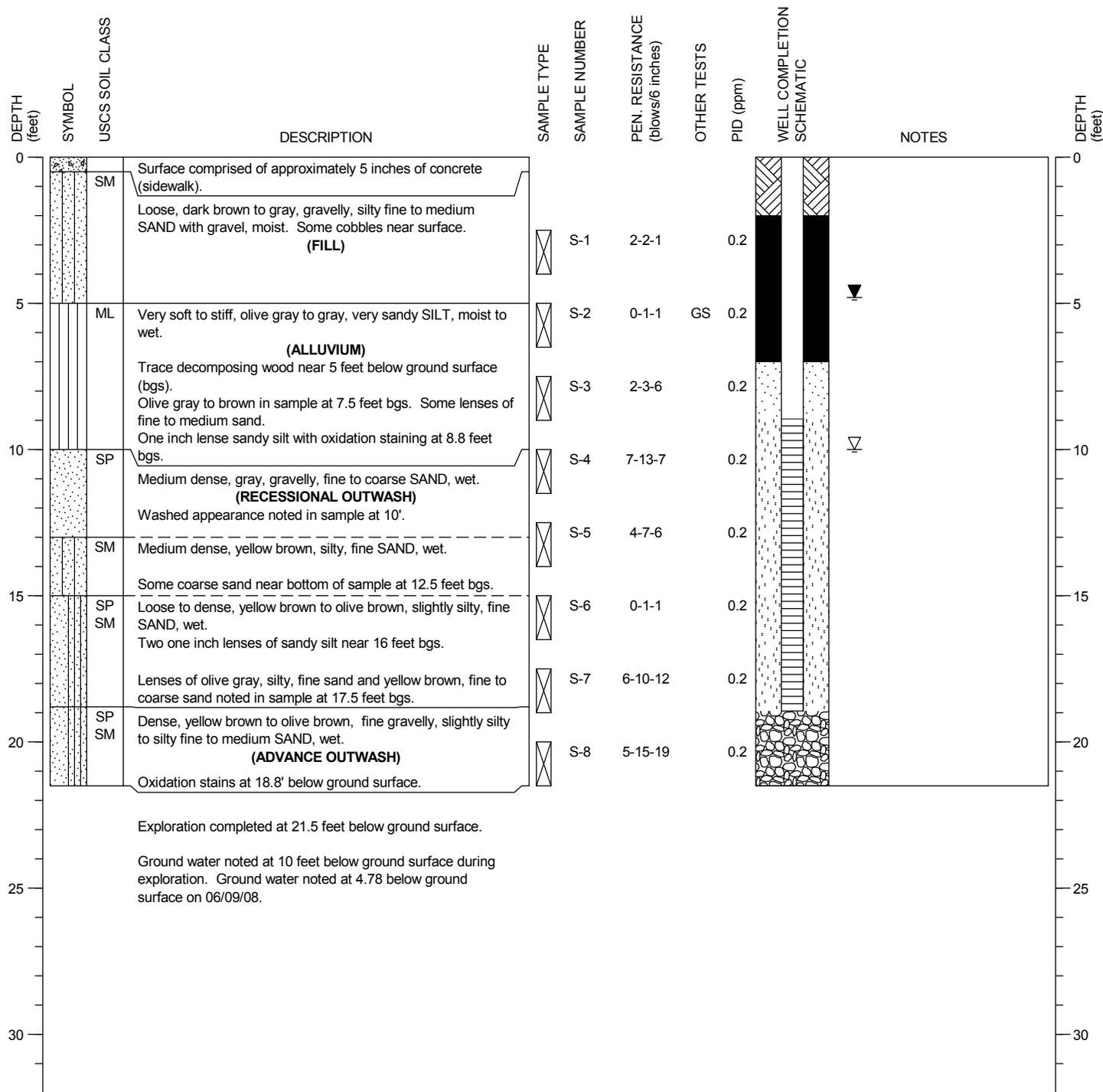
Station: _____ Drill Rig: DPT
 Surface Elevation: _____ Equipment/Hammer: Continuous Core/
 Logged By: AW Date Completed: 4-1-09

	King County Bothell Crossroads Redevelopment Project Bothell, Washington
	Boring Log B7 Figure: A-5 Project No: 19897.68445

DRILLING COMPANY: Holocene Drilling
 DRILLING METHOD: Hollow-Stem Auger, Mobile B-61 truck rig
 SAMPLING METHOD: SPT with Autohammer
 LOCATION: See Figure 2

SURFACE ELEVATION: 39.00 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 6/4/2008
 DATE COMPLETED: 6/4/2008
 LOGGED BY: J. Speck



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BB- 2

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

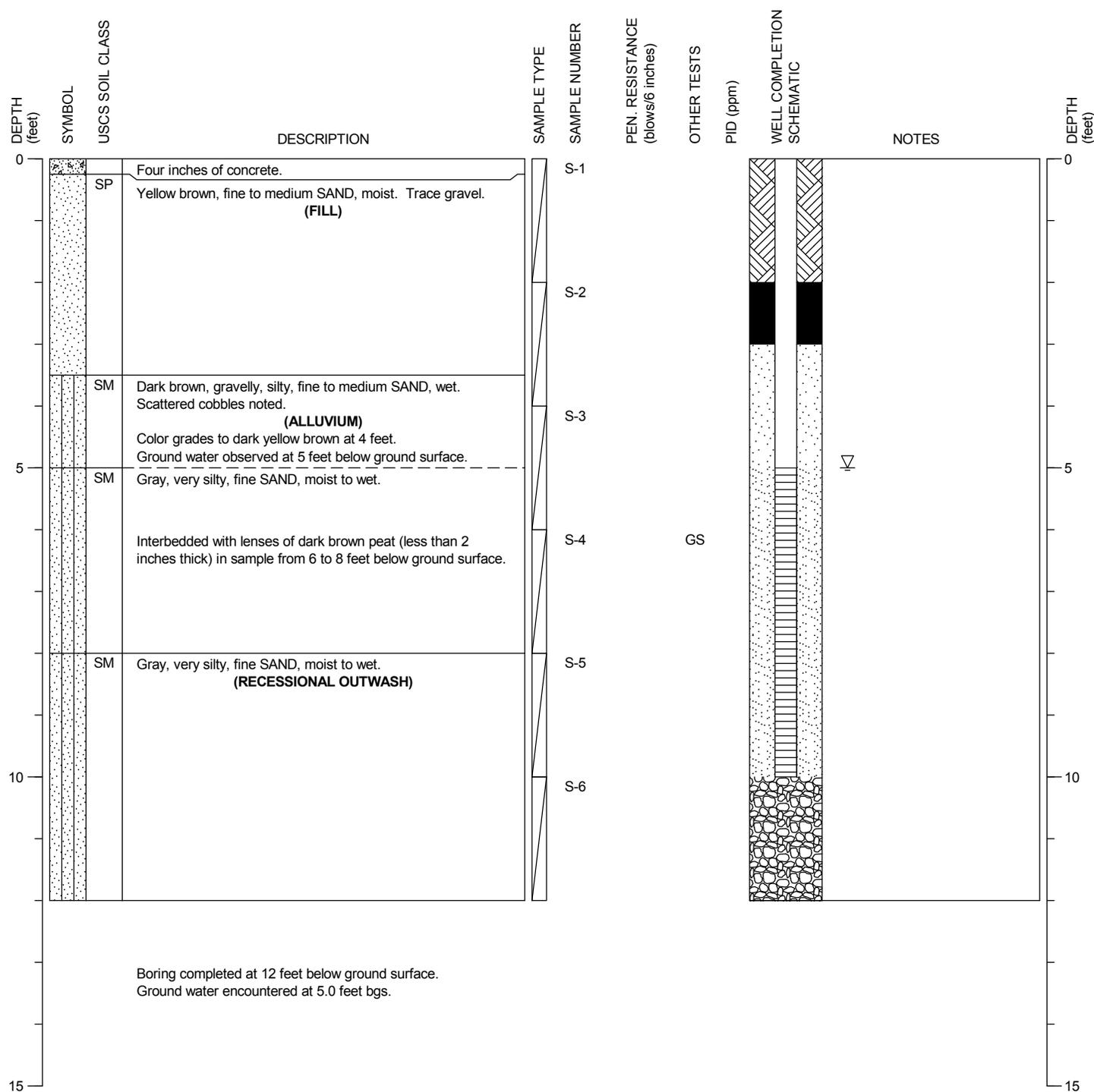
FIGURE:

A-6

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Truck-mounted GeoProbe
 SAMPLING METHOD: HDPE-lined Macrocore sampler
 LOCATION: See Figure 2

SURFACE ELEVATION: 39.30 ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 1/5/2009
 DATE COMPLETED: 1/5/2009
 LOGGED BY: J. Speck



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

GEOPROBE:
 BI- 3

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

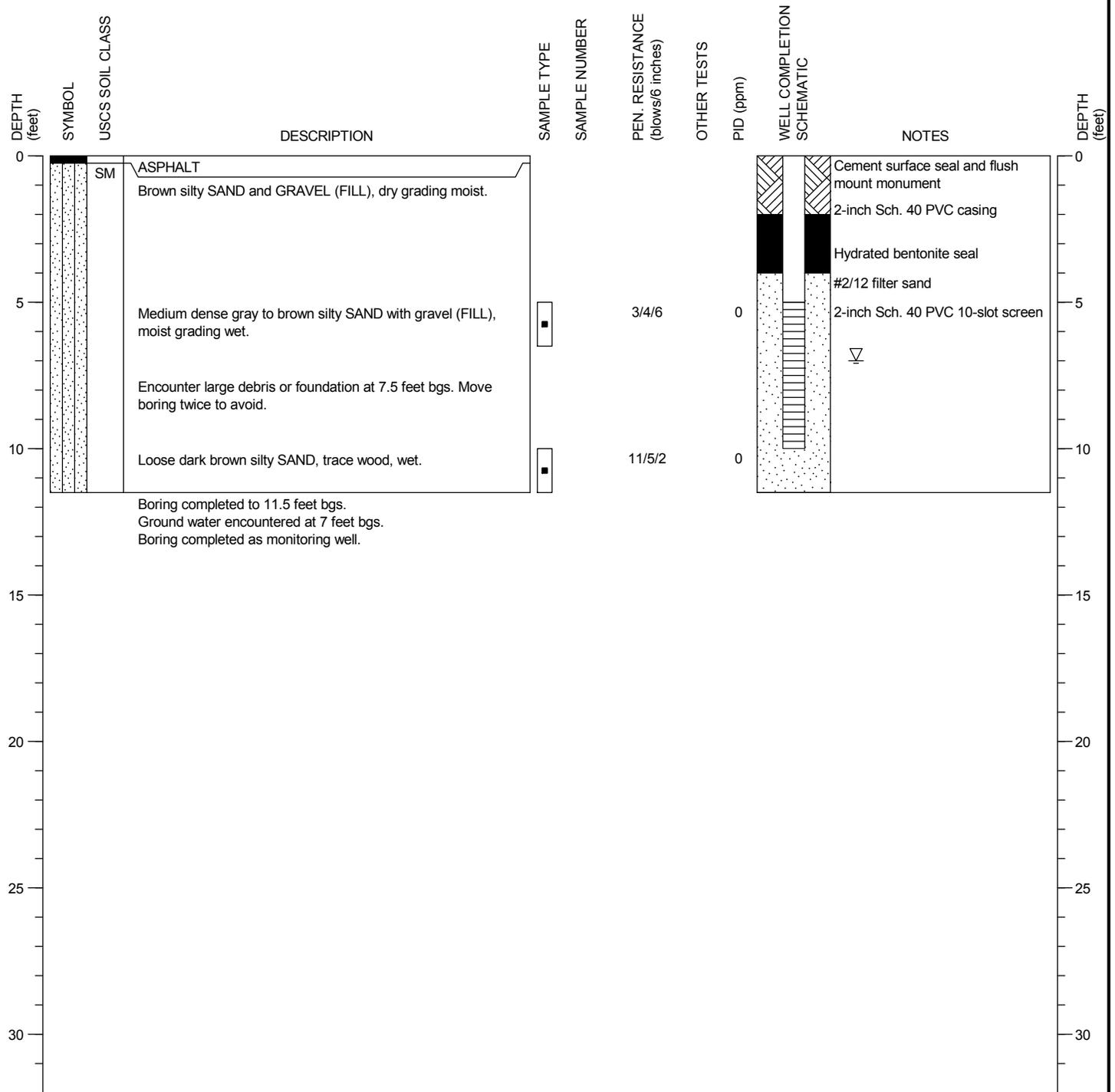
FIGURE:

A-7

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: CME 75 Truck-mounted 8-inch HSA
 SAMPLING METHOD: D&M Split Spoon with 300 lb hammer
 LOCATION: Bothell Landing property, adj. to Horse Creek culvert

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 9/4/2009
 DATE COMPLETED: 9/4/2009
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

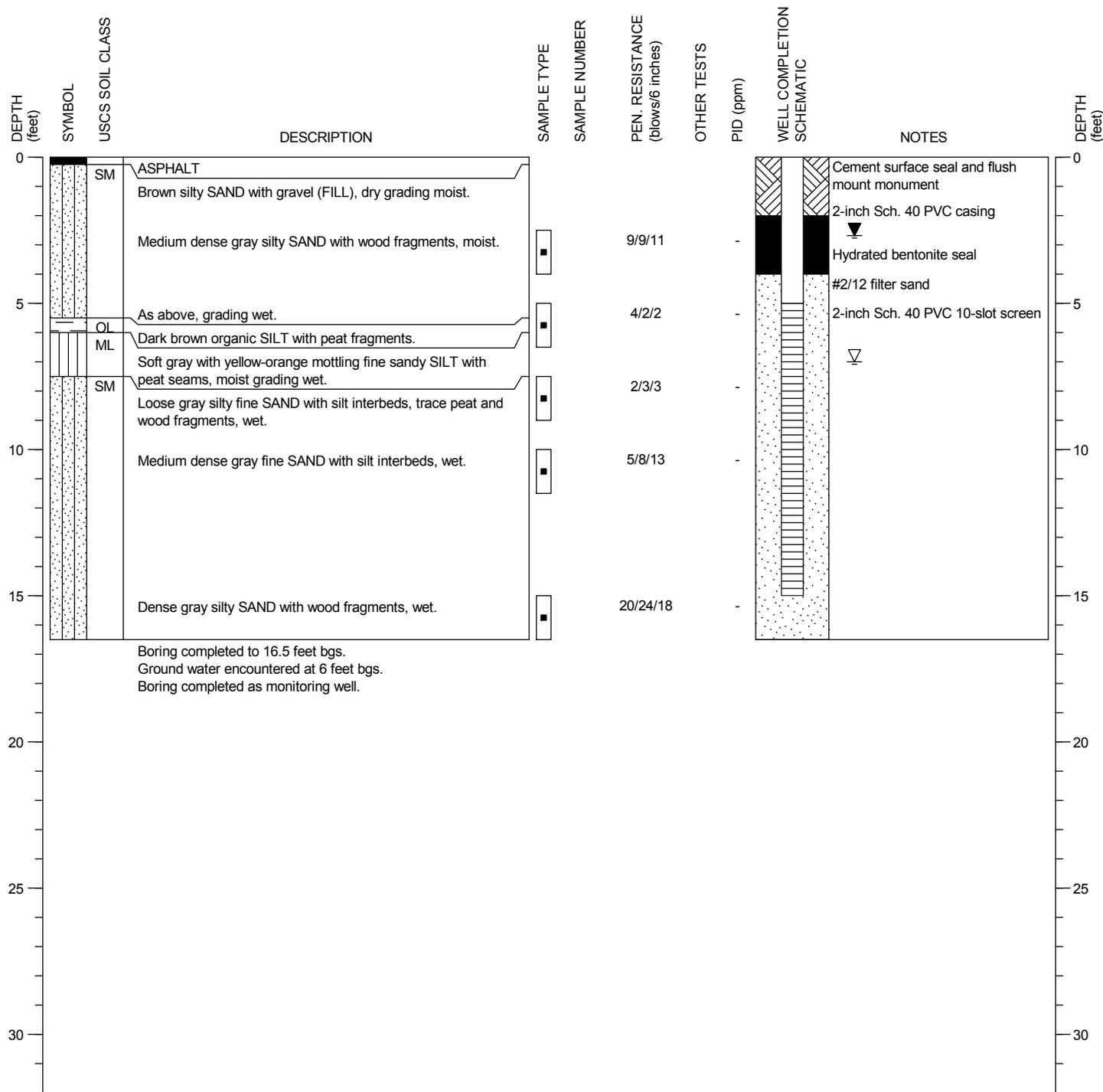
MONITORING WELL:
 BLMW-5

PAGE: 1 of 1

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: CME 75 Truck-mounted 8-inch HSA
 SAMPLING METHOD: D&M Split Spoon with 300 lb hammer
 LOCATION: Bothell Landing property, west-central property

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 9/4/2009
 DATE COMPLETED: 9/4/2009
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BLMW-6

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

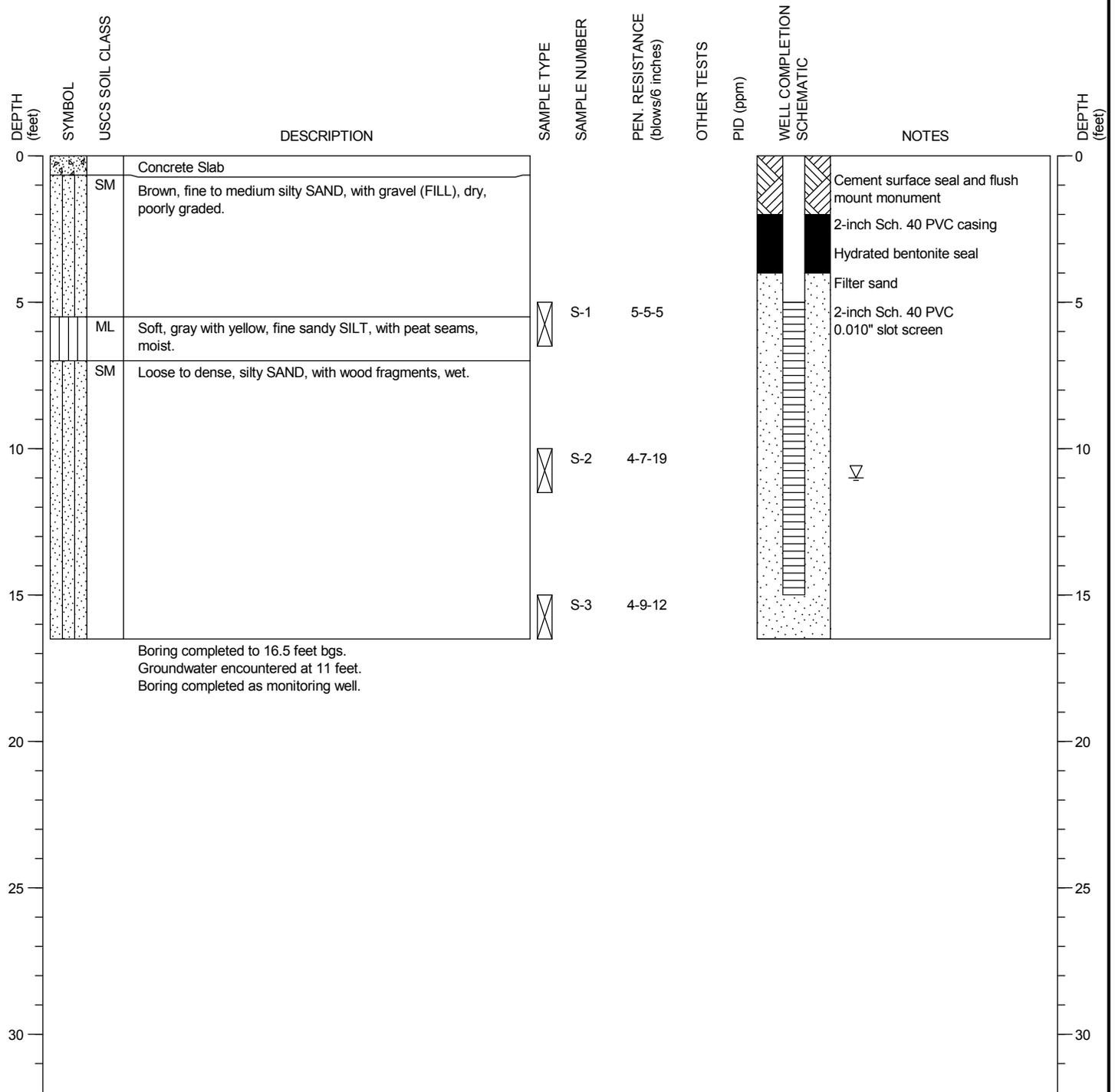
FIGURE:

A-9

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: HSA
 SAMPLING METHOD: SPT-18 Inches
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 8/25/2014
 DATE COMPLETED: 8/25/2014
 LOGGED BY: K. Stilson



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BLMW-6R

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

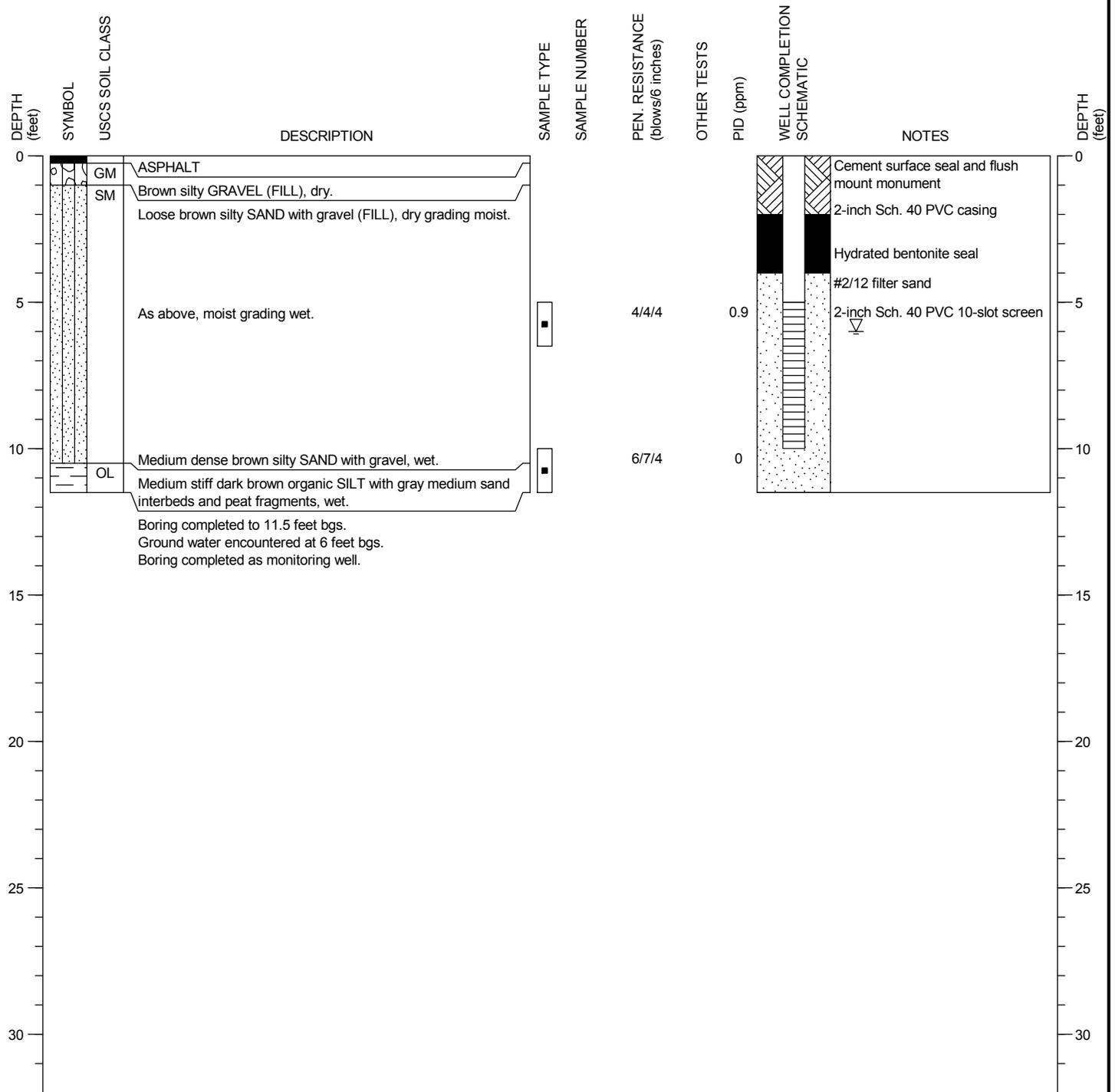
FIGURE:

A-10

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: CME 75 Truck-mounted 8-inch HSA
 SAMPLING METHOD: D&M Split Spoon with 300 lb hammer
 LOCATION: Bothell Landing property, adj. to Horse Creek culvert

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 9/4/2009
 DATE COMPLETED: 9/4/2009
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BLMW-7

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

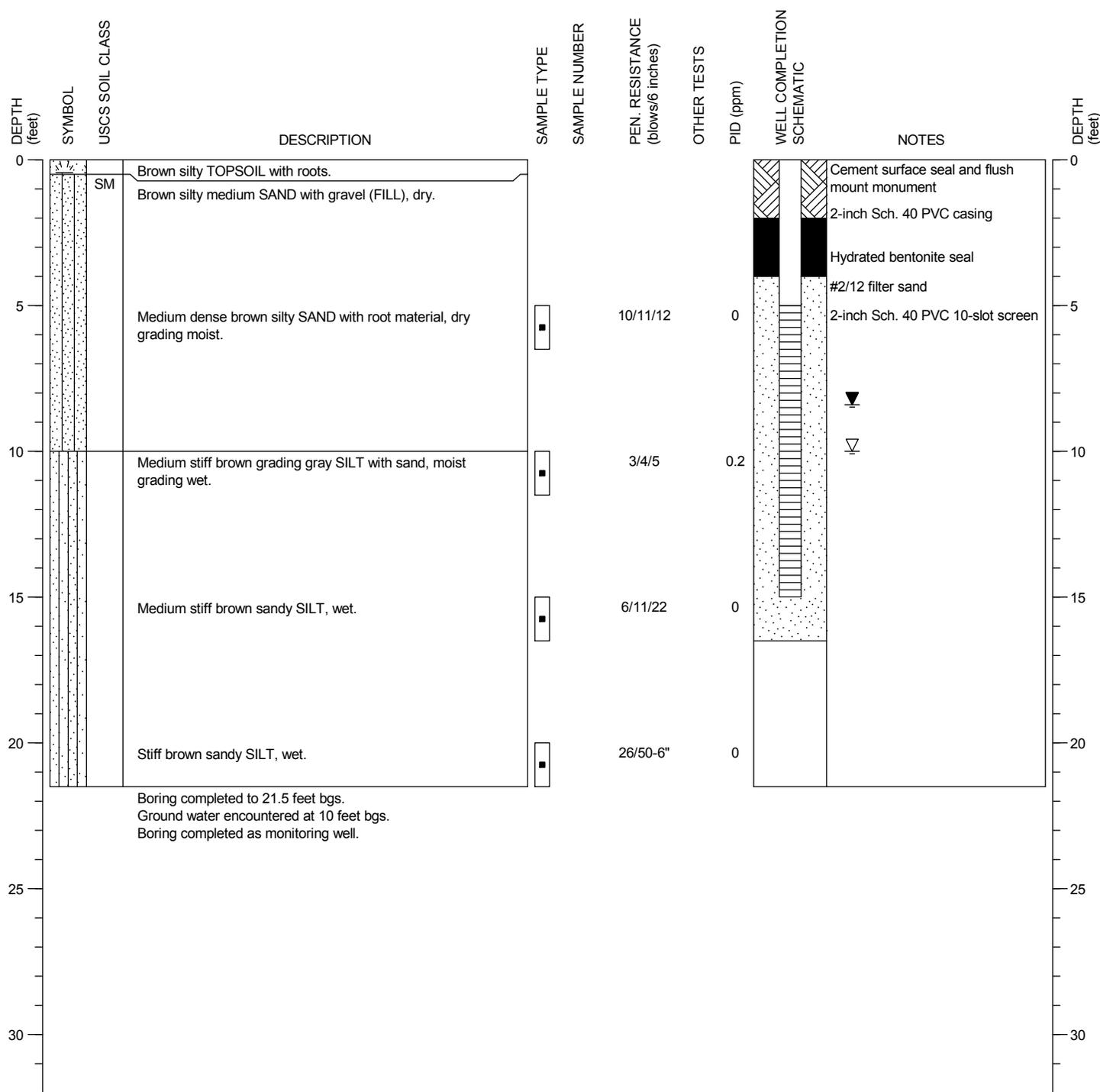
FIGURE:

A-11

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: CME 75 Truck-mounted 8-inch HSA
 SAMPLING METHOD: D&M Split Spoon with 300 lb hammer
 LOCATION: Bothell Landing property, northwest property

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 9/4/2009
 DATE COMPLETED: 9/4/2009
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BLMW-8

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

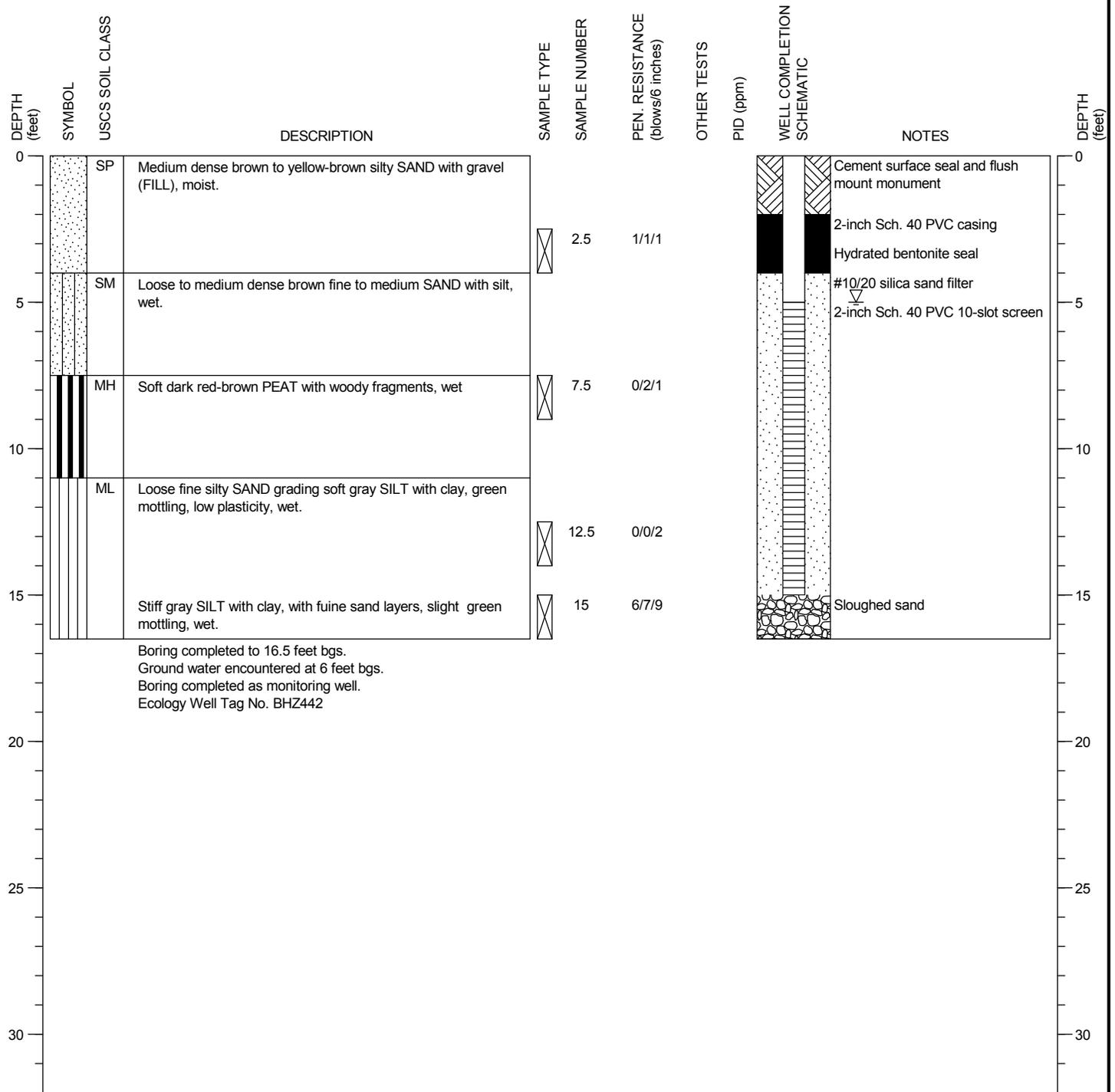
FIGURE:

A-12

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION: Bothell Landing property, north-central area

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 4/9/2014
 DATE COMPLETED: 4/9/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BLMW-9

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

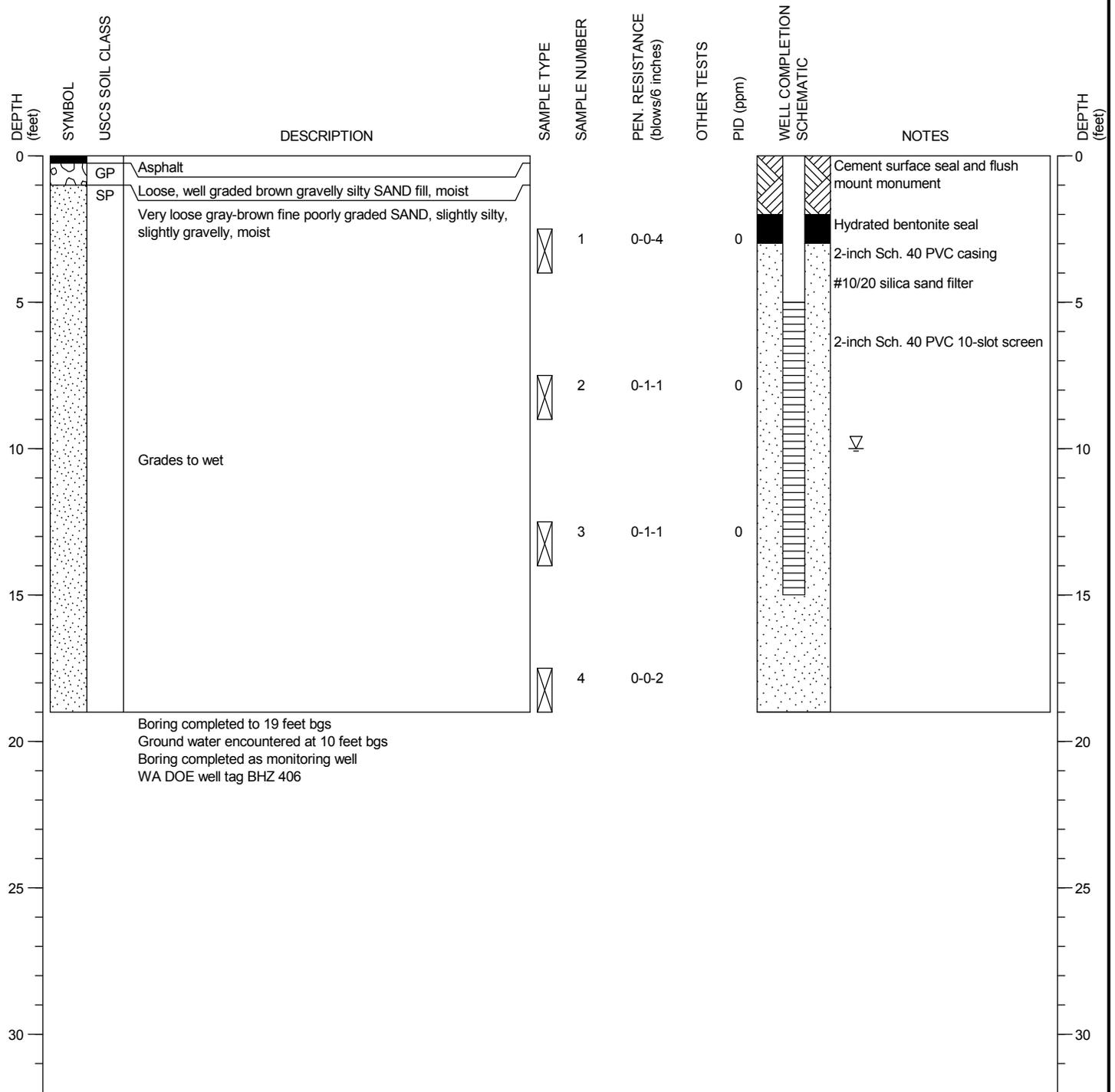
FIGURE:

A-13

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION: Bothell Landing property, south-west corner

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 1/13/2014
 DATE COMPLETED: 1/13/2014
 LOGGED BY: N.Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BLMW-11

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

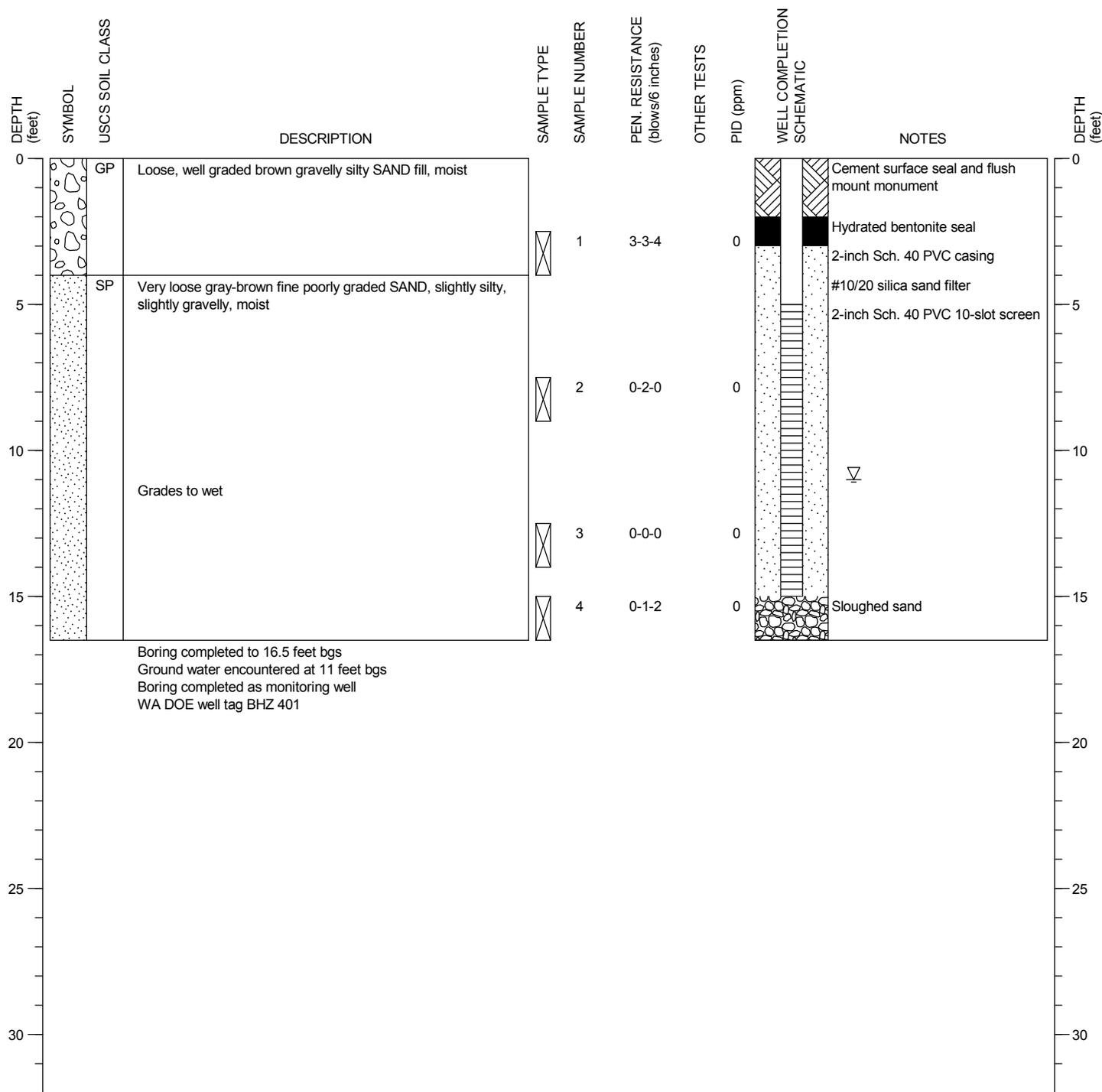
FIGURE:

A-15

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION: Bothell Landing property, south-east corner

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 1/8/2014
 DATE COMPLETED: 1/8/2014
 LOGGED BY: N.Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 BLMW-12

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

FIGURE:

A-16

DEPTH (feet)	WELL/PIEZO CONSTRUCTION	WATER LEVEL	TESTING PROGRAM					BLOWS/6 in.** (uncorrected)	SAMPLER *	SAMPLE NUMBER	U.S.C.S.		SOIL DESCRIPTION
			LABORATORY			FIELD					NAME	SYMBOL	
			MOISTURE CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	% PASSING No. 200 SIEVE	OTHER TESTS						
0	CONCRETE EMBEDDED FLUSH WELL MONUMENT (0-2')											2" Asphalt	
	BENTONITE CHIP SEAL (2-4')										SP	SAND, light gray, moist, loose, poorly-graded, medium grained. (FILL)	
5	BLANK 2" dia. PVC PIPE (2-5')						7		S-1				
	10/20 COLORADO SILICA SAND PACK (4-15')						12				SM	Silty SAND, light gray-brown, moist to wet, medium dense, trace fine gravel.	
	2" dia. PVC WITH 0.01" SLOT SCREEN (5-15')						17					- wet	
10							4		S-2		ML	Sandy SILT, gray, wet, medium stiff, layered (1/2" with peat).	
							3						
							5						
15													

Bottom of boring at 15 feet on 11/17/99.
Groundwater observed at 7 feet bgs.

DATE DRILLED: 11-17-99
 LOGGED BY: T. Stott
 REVIEWED BY: S. Dwyer

SURFACE ELEVATION (feet):
 TOTAL DEPTH (feet): 15.0
 DIAMETER OF BORING (in): 4 1/4

DRILLING METHOD: HSA Auger
 DRILLER: Cascade Drilling
 CASING SIZE:

 KLEINFELDER GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS SOILS AND MATERIALS TESTING PROJECT NUMBER: 60-1995-01	Buck and Gordon Bothell Landing BORING LOG MW-1	FIGURE A-17
	APPROV: _____ BY: _____	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

DEPTH (feet)	WELL/PIEZO CONSTRUCTION	WATER LEVEL	TESTING PROGRAM					BLOWS/6 in** (uncorrected)	SAMPLER *	SAMPLE NUMBER	U.S.C.S.		SOIL DESCRIPTION
			LABORATORY		FIELD						NAME	SYMBOL	
			MOISTURE CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	% PASSING No. 200 SIEVE	OTHER TESTS						
0	CONCRETE EMBEDDED FLUSH WELL MONUMENT (0-2')											2" Asphalt	
2-4'	BENTONITE CHIP SEAL											SAND, light gray, moist to wet, loose, poorly-graded, moderate petroleum odor. (FILL)	
2-5'	BLANK 2" dia. PVC PIPE						3 2 3	S-1				- wet	
4-15'	10/20 COLORADO SILICA SAND PACK											Silty SAND, gray, wet, medium dense.	
5-15'	2" dia. PVC WITH 0.01" SLOTTED SCREEN						6 12 16	S-2	SM			Fine SAND, gray, wet, poorly graded, dense.	
13-19-21							13 19 21	S-3	SP				

Bottom of boring at 16 feet on 11/17/99.
Groundwater observed at 7.5 feet bgs.

DATE DRILLED: 11-17-99
 LOGGED BY: T. Stott
 REVIEWED BY: S. Dwyer

SURFACE ELEVATION (feet):
 TOTAL DEPTH (feet): 15.0
 DIAMETER OF BORING (in): 4 1/4

DRILLING METHOD: HSA Auger
 DRILLER: Cascade Drilling
 CASING SIZE:

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

APPROV: BY:

 KLEINFELDER GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS SOILS AND MATERIALS TESTING PROJECT NUMBER: 60-1995-01	Buck and Gordon Bothell Landing BORING LOG MW-2	FIGURE A-18
--	---	---------------------------

DEPTH (feet)	WELL/PIEZO CONSTRUCTION	WATER LEVEL	TESTING PROGRAM				BLOWS/6 in. (uncorrected)	SAMPLER *	SAMPLE NUMBER	U.S.C.S.		SOIL DESCRIPTION
			LABORATORY		FIELD					NAME	SYMBOL	
			MOISTURE CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	% PASSING No. 200 SIEVE						
0	CONCRETE EMBEDDED FLUSH WELL MONUMENT (0-2')										2" Asphalt	
	BENTONITE CHIP SEAL (2-4')											
5	BLANK 2" dia. PVC PIPE (2-5')					5		S-1				
	10/20 COLORADO SILICA SAND PACK (4-15')					5						
	2" dia. PVC WITH 0.01" SLOT SCREEN (5-15')					13						
10						9		S-2				
						10						
						12						
15												

Bottom of boring at 15 feet on 11/17/99.
Groundwater observed at 7 feet bgs.

DATE DRILLED: 11-17-99 SURFACE ELEVATION (feet): DRILLING METHOD: HSA Auger
 LOGGED BY: T. Stott TOTAL DEPTH (feet): 15.0 DRILLER: Cascade Drilling
 REVIEWED BY: S. Dwyer DIAMETER OF BORING (in): 4 1/4 CASING SIZE:

 KLEINFELDER GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS SOILS AND MATERIALS TESTING PROJECT NUMBER: 60-1995-01	Buck and Gordon Bothell Landing	FIGURE A-19
	BORING LOG MW-3	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.
 APPROV: _____
 BY: _____

DEPTH (feet)	WELL/PIEZO CONSTRUCTION	WATER LEVEL	TESTING PROGRAM				BLOWS/6 in** (uncorrected)	SAMPLER *	SAMPLE NUMBER	U.S.C.S.		SOIL DESCRIPTION
			LABORATORY		FIELD					NAME	SYMBOL	
			MOISTURE CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	% PASSING No. 200 SIEVE						
0	CONCRETE EMBEDDED FLUSH WELL MONUMENT (0-2')										2" Asphalt	
	BENTONITE CHIP SEAL (2-4')										Sandy, silty, fine, GRAVEL, moist, medium dense. (FILL)	
5	BLANK 2" dia. PVC PIPE (2-5')					11		S-1			Sandy fine GRAVEL, moist with wood and peat layers, medium dense.	
	10/20 COLORADO SILICA SAND PACK (4-15')					14						
	2" dia. PVC WITH 0.01" SLOT SCREEN (5-15')					7						
10								S-2			Silty SAND, gray-brown, moist to wet, medium dense.	
						4					Silty SAND interbedded with SILT, gray, wet, medium dense, very stiff, moderate petroleum odor.	
						7						
						9					Silty SAND, gray, wet, medium dense.	
15												

Bottom of boring at 15 feet on 11/17/99.
Groundwater observed at 9 feet bgs.

DATE DRILLED: 11-17-99 SURFACE ELEVATION (feet): DRILLING METHOD: HSA Auger
 LOGGED BY: T. Stott TOTAL DEPTH (feet): 15.0 DRILLER: Cascade Drilling
 REVIEWED BY: S. Dwyer DIAMETER OF BORING (in): 4 1/4 CASING SIZE:

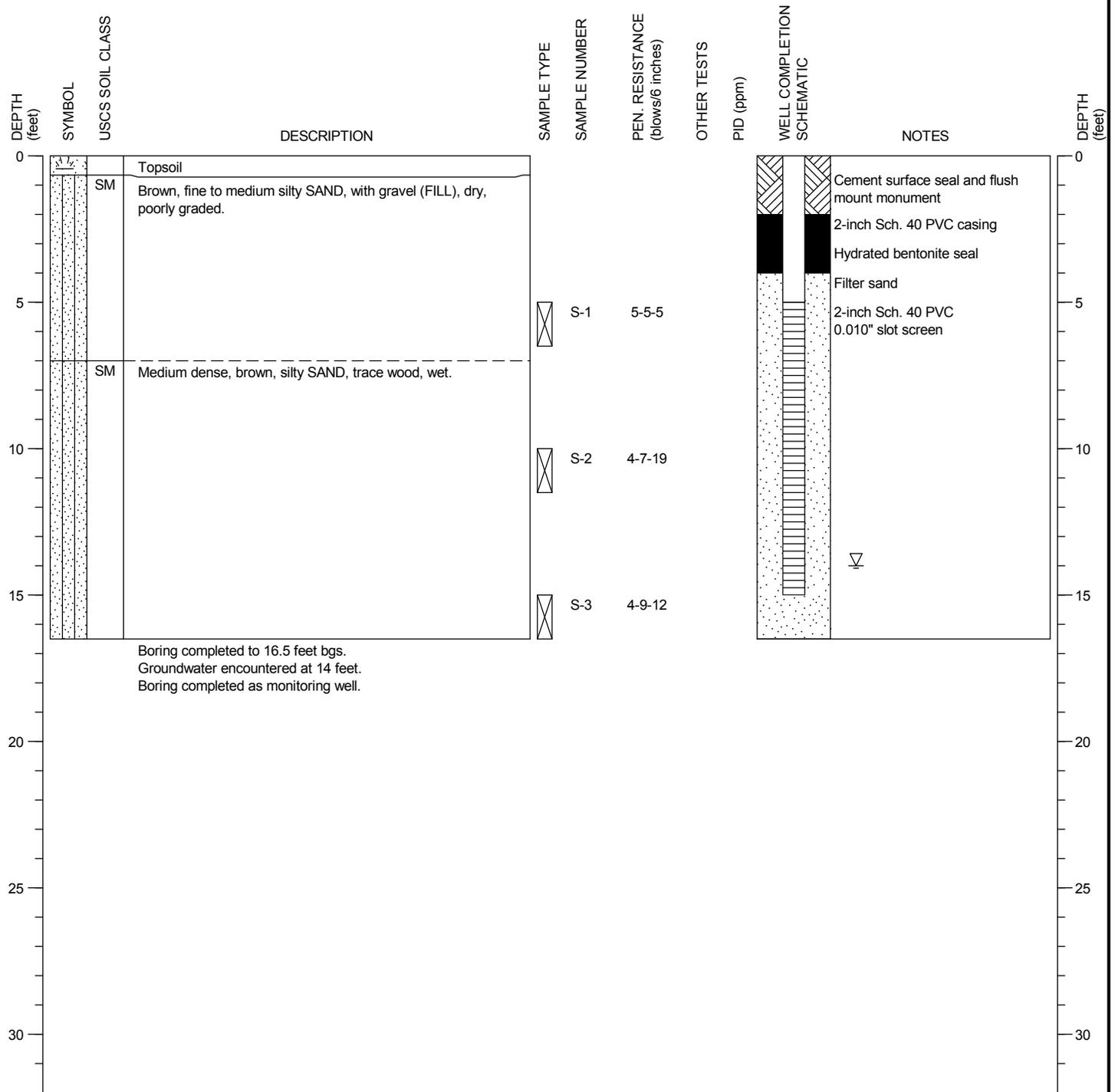
 KLEINFELDER GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS SOILS AND MATERIALS TESTING PROJECT NUMBER: 60-1995-01	Buck and Gordon Bothell Landing	FIGURE A-20
	BORING LOG MW-4	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.
 BY: _____ APPROV: _____

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: HSA
 SAMPLING METHOD: SPT-18 Inches
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 8/26/2014
 DATE COMPLETED: 8/26/2014
 LOGGED BY: K. Stilson



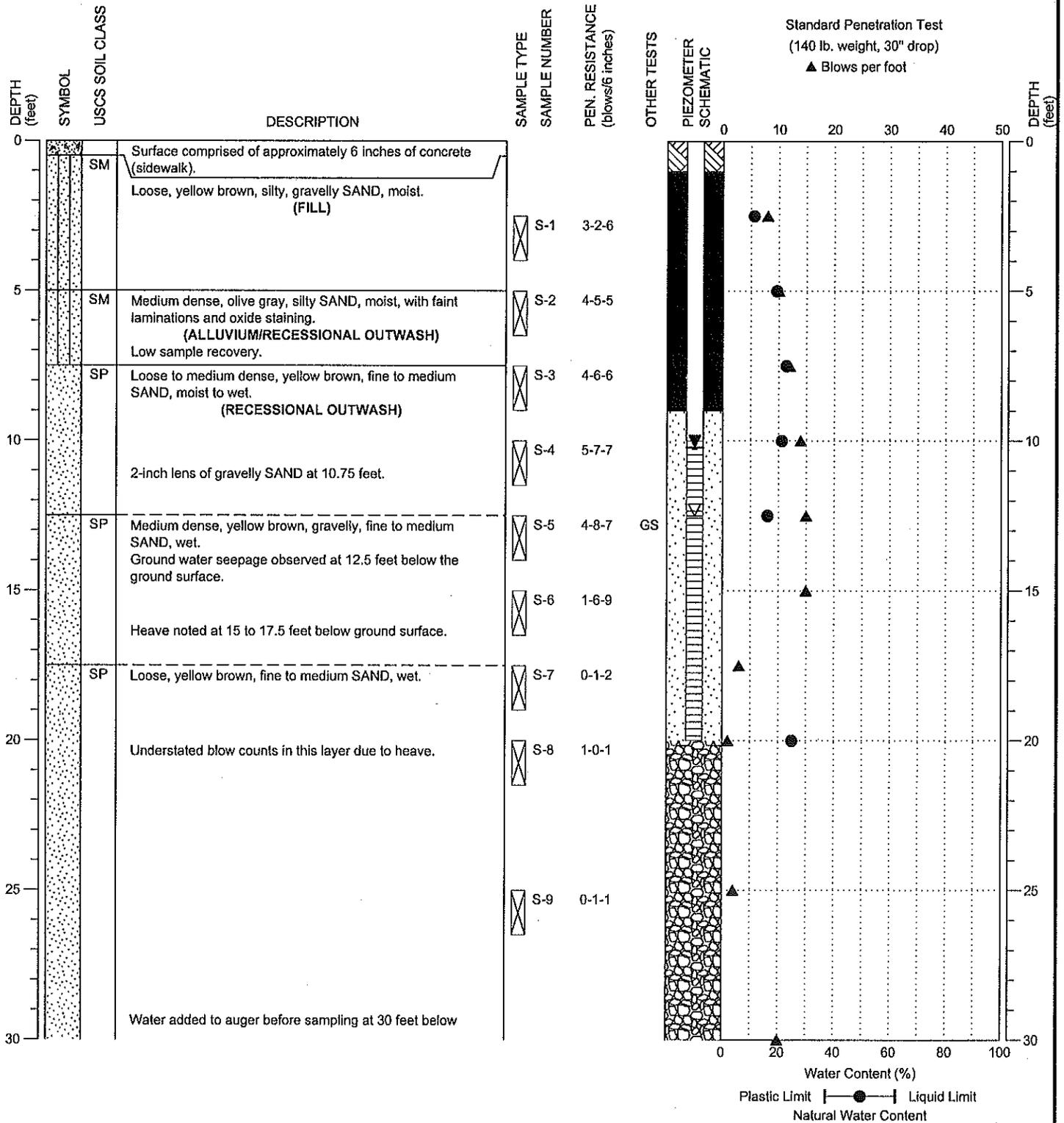
NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Bothell, Washington

MONITORING WELL:
 MW-5R

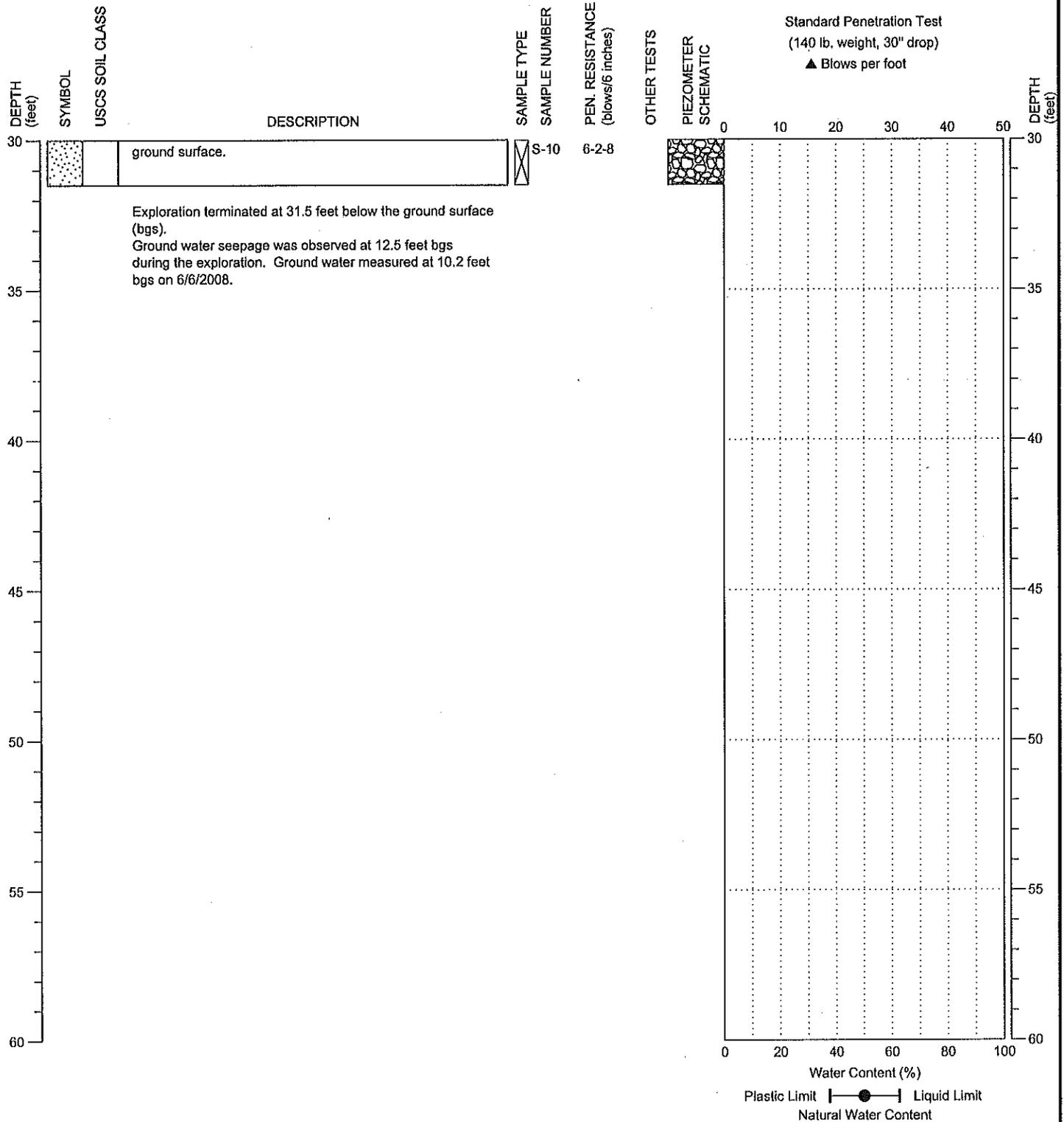
PAGE: 1 of 1



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

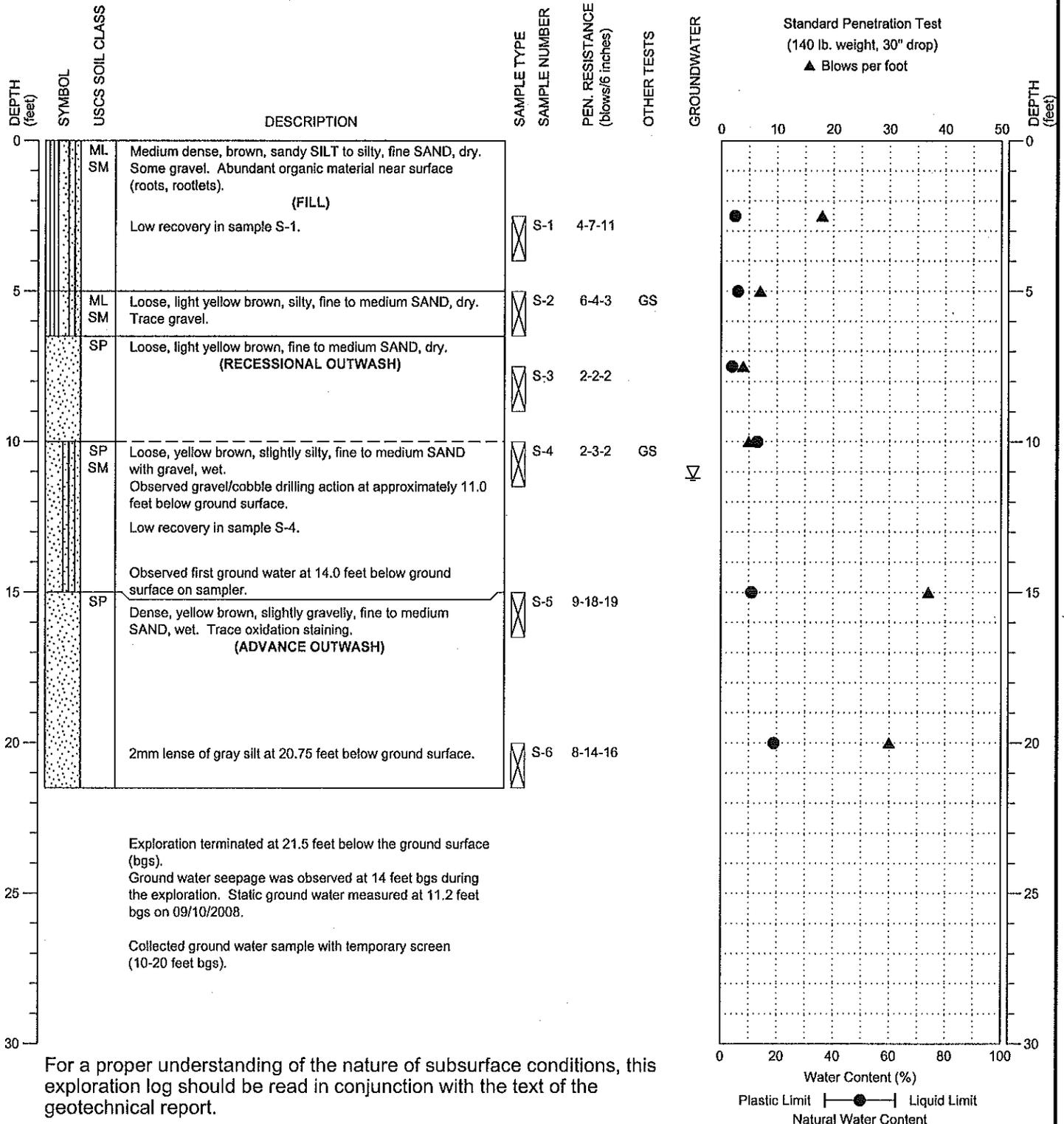
DRILLING COMPANY: Holocene Drilling SURFACE ELEVATION: 42.50 ± feet
 DRILLING METHOD: Hollow-Stem Auger, Mobile B-61 truck rig
 SAMPLING METHOD: SPT with Autohammer
 LOCATION: See Figure 2

DATE STARTED: 6/6/2008
 DATE COMPLETED: 6/6/2008
 LOGGED BY: J. Speck



DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow-Stem Auger, Simco 4000 tracked rig
 SAMPLING METHOD: SPT with Cathead
 SURFACE ELEVATION: 45 ± feet

LOCATION: See Figure 2
 DATE STARTED: 9/10/2008
 DATE COMPLETED: 9/10/2008
 LOGGED BY: J. Speck



SR 527 GEOTECHNICAL REPORT
 BOTHELL MULTI-WAY BOULEVARD PROJECT
 BOTHELL, WASHINGTON

BORING:
 BB- 4

PAGE: 1 of 1

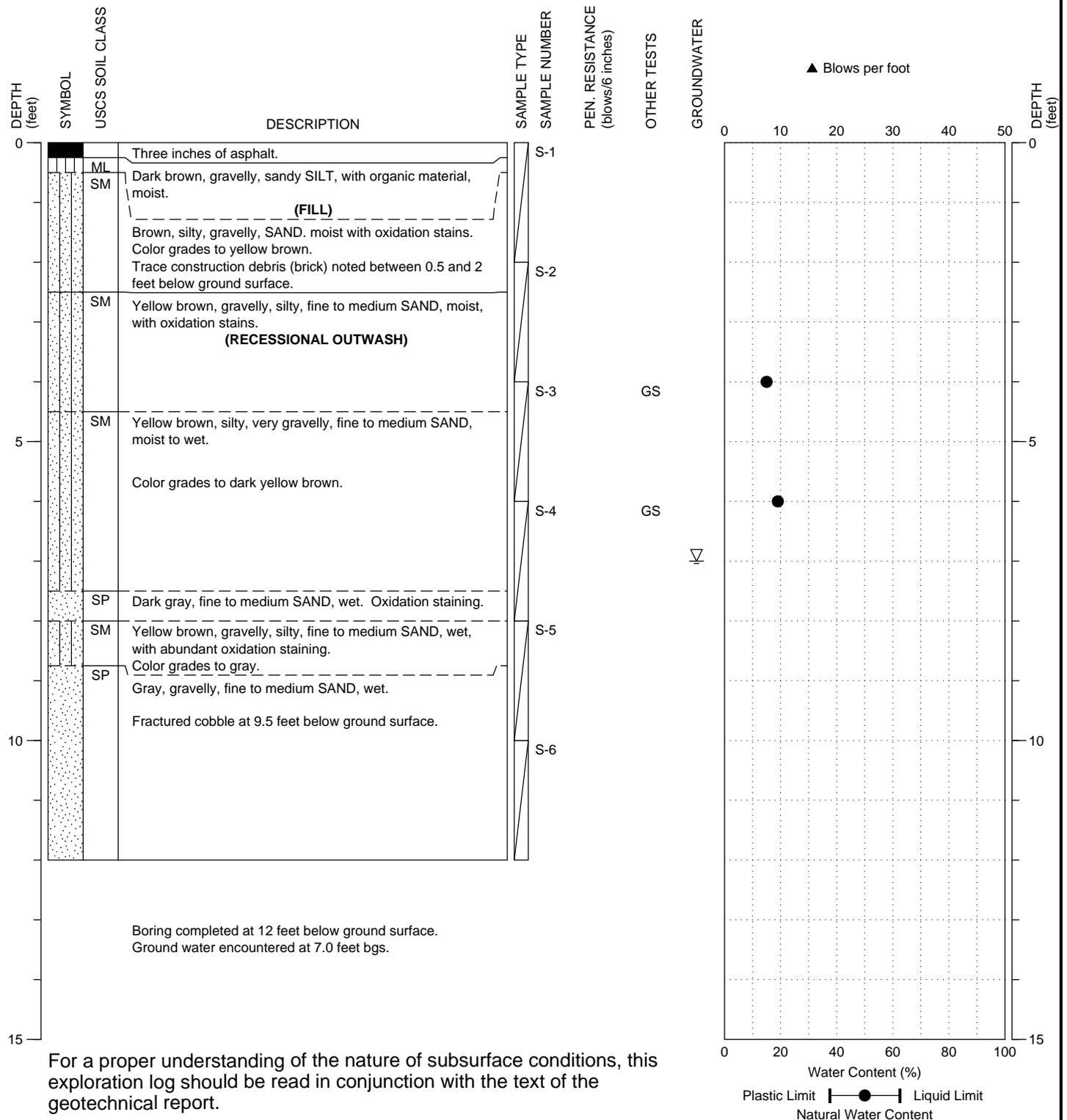
PROJECT NO.: 2007-098

FIGURE:

A-4

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Truck-mounted GeoProbe
 SAMPLING METHOD: HDPE-lined Macrocore sampler
 SURFACE ELEVATION: 42.70 ± feet

LOCATION: See Figure 2
 DATE STARTED: 1/5/2009
 DATE COMPLETED: 1/5/2008
 LOGGED BY: J. Speck



For a proper understanding of the nature of subsurface conditions, this exploration log should be read in conjunction with the text of the geotechnical report.

NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



SR 527 GEOTECHNICAL REPORT
 BOTHELL MULTI-WAY BOULEVARD PROJECT
 BOTHELL, WASHINGTON

GEOPROBE:
 BI- 1

PAGE: 1 of 1

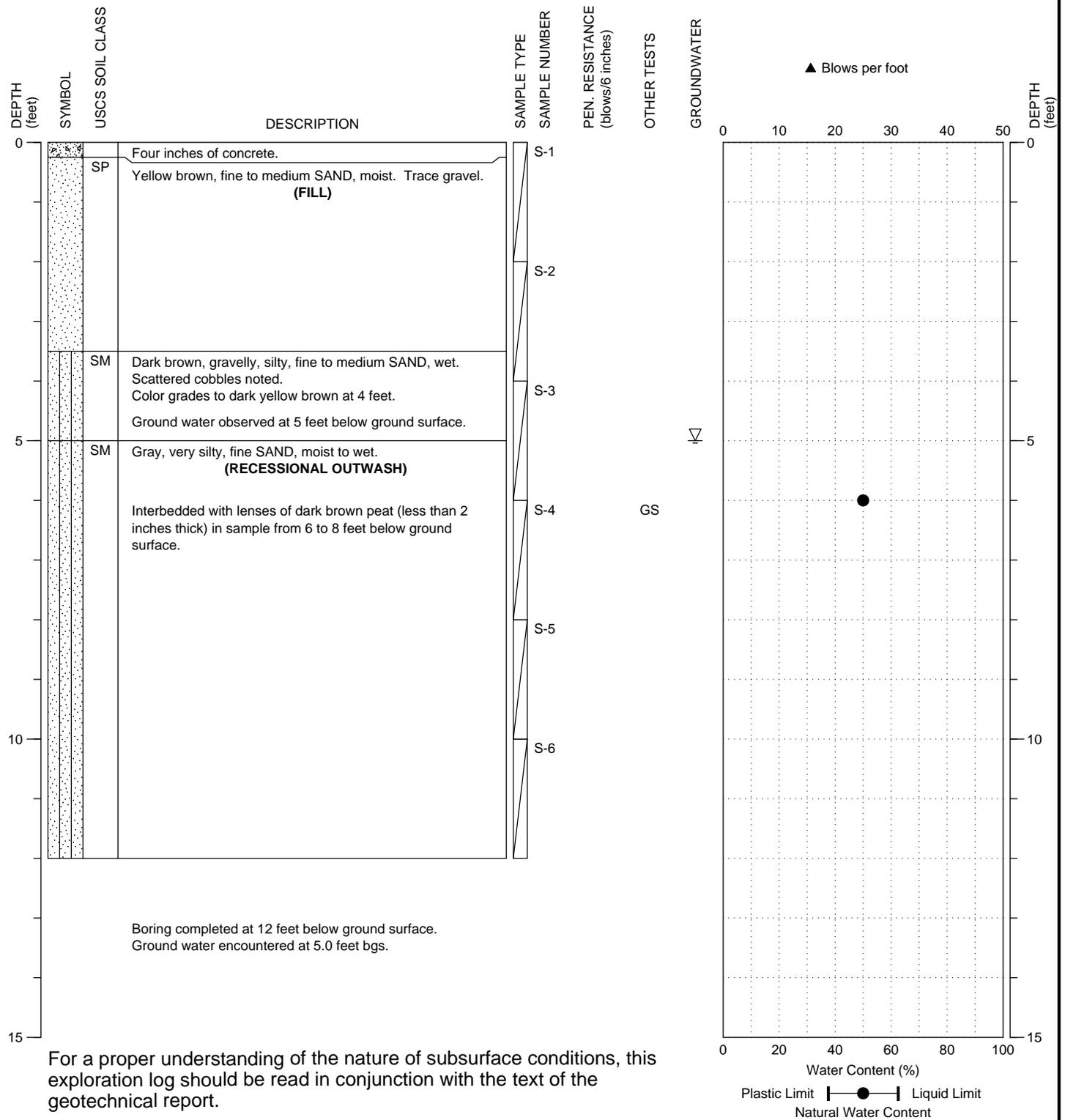
PROJECT NO.: 2007-098

FIGURE:

A-11

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: Truck-mounted GeoProbe
 SAMPLING METHOD: HDPE-lined Macrocore sampler
 SURFACE ELEVATION: 39.30 ± feet

LOCATION: See Figure 2
 DATE STARTED: 1/5/2009
 DATE COMPLETED: 1/5/2009
 LOGGED BY: J. Speck



For a proper understanding of the nature of subsurface conditions, this exploration log should be read in conjunction with the text of the geotechnical report.

NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



SR 527 GEOTECHNICAL REPORT
 BOTHELL MULTI-WAY BOULEVARD PROJECT
 BOTHELL, WASHINGTON

GEOPROBE:
 BI- 3

PAGE: 1 of 1

PROJECT NO.: 2007-098

FIGURE:

A-13

Client: TRF Equities Bothell, LLC
Project: Bothell/Blocks EFG
Location: Bothell, Washington

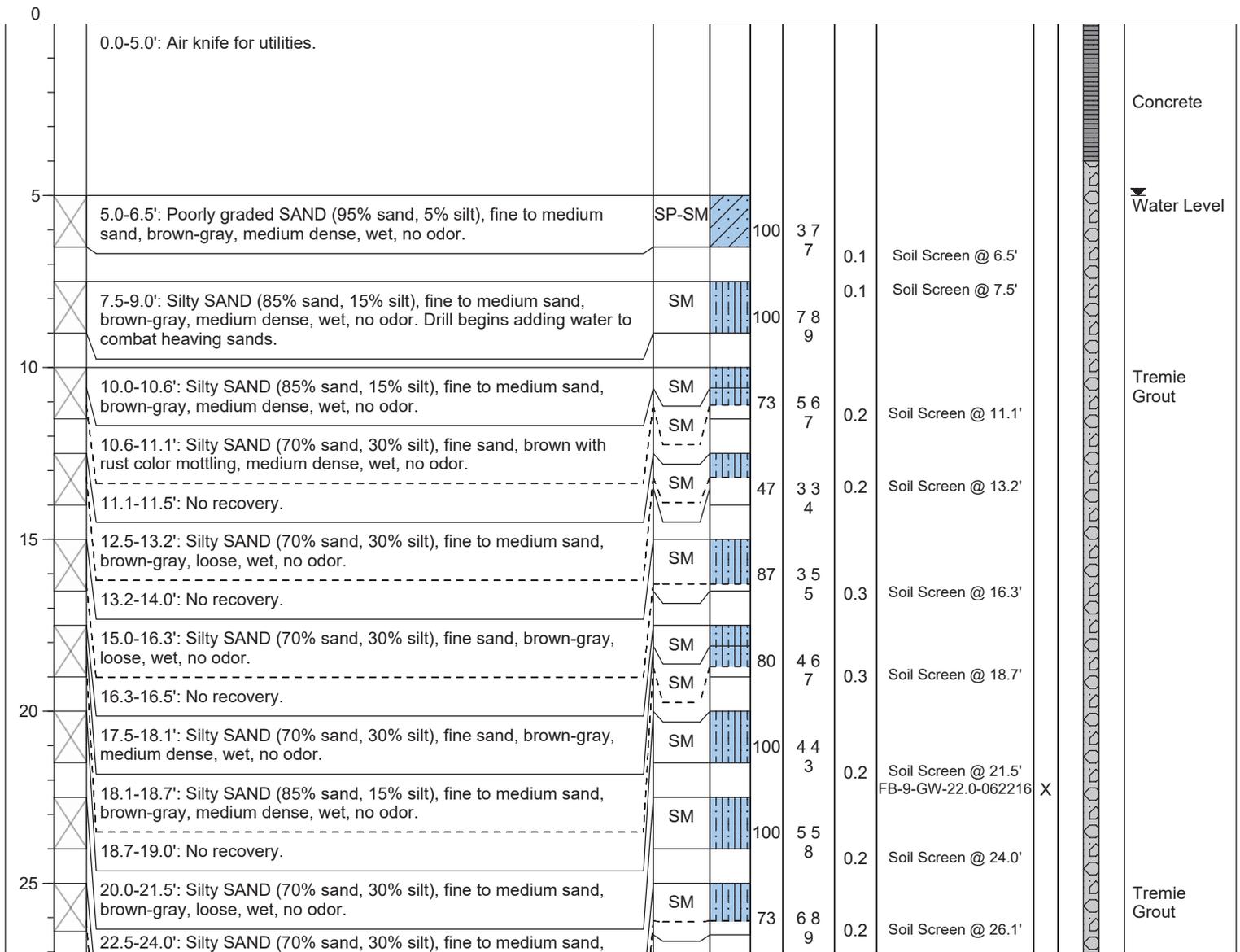
Date/Time Started: 6/22/16 @ 0830
Date/Time Completed: 6/22/16 @ 1600
Equipment: Mobile B61
Drilling Company: Holocene
Drilling Foreman: Matt Graham
Drilling Method: Hollow Stem Auger

Sampler Type: 1.5' SPT
Drive Hammer (lbs.): 140
Depth of Water ATD (ft bgs): 5.0
Total Boring Depth (ft bgs): 51.5
Total Well Depth (ft bgs): NA

Farallon PN: 1210-003

Logged By: Ryan Ostrom

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): 2.0	Surface Seal: Concrete	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Surveyed Location: X: NA	
Screened Interval (ft bgs): 19-24, 24-29, 29-34	Boring Abandonment: Tremie Grout	Y: NA	

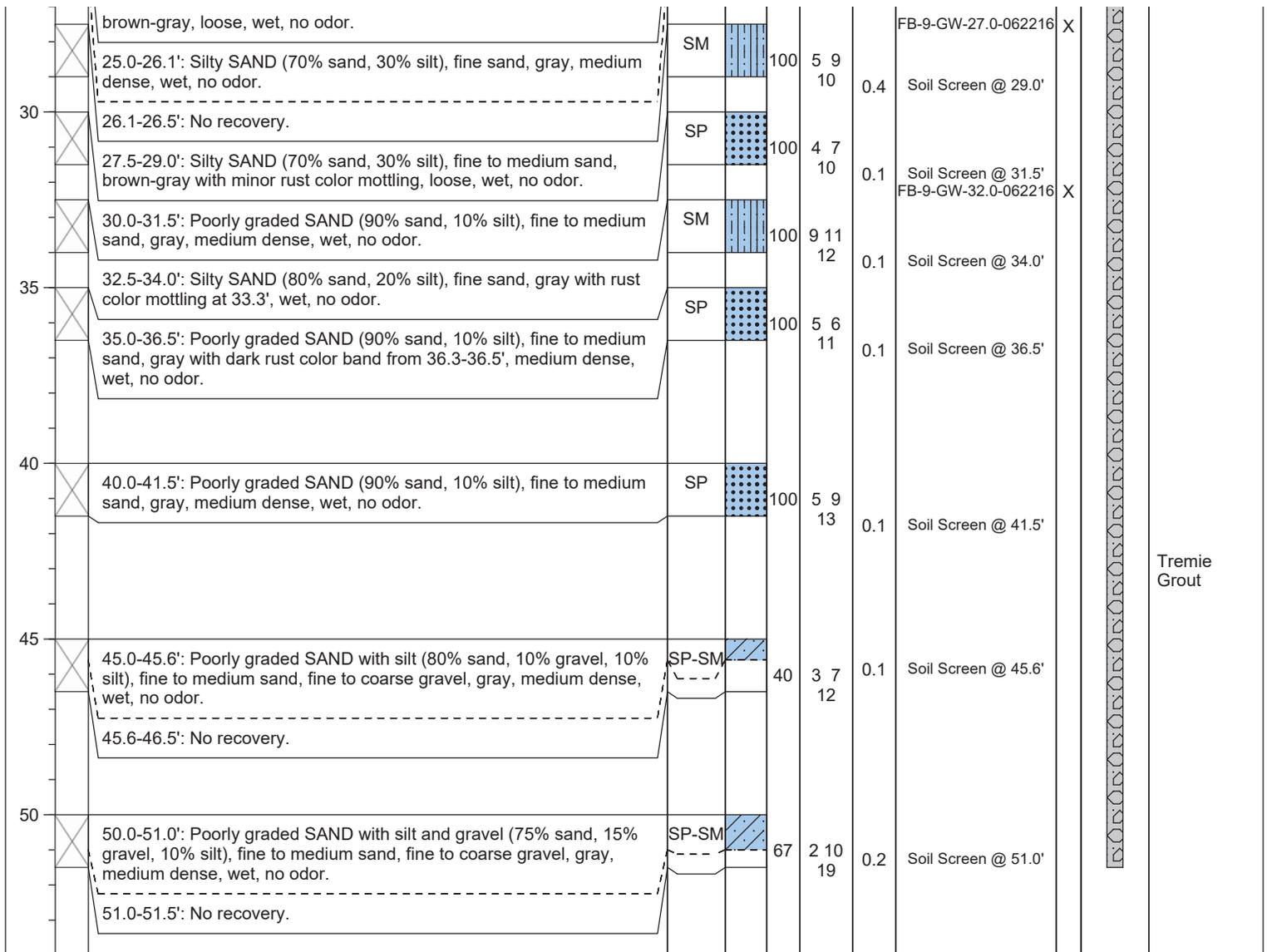
Client: TRF Equities Bothell, LLC
Project: Bothell/Blocks EFG
Location: Bothell, Washington

Date/Time Started: 6/22/16 @ 0830 **Sampler Type:** 1.5' SPT
Date/Time Completed: 6/22/16 @ 1600 **Drive Hammer (lbs.):** 140
Equipment: Mobile B61 **Depth of Water ATD (ft bgs):** 5.0
Drilling Company: Holocene **Total Boring Depth (ft bgs):** 51.5
Drilling Foreman: Matt Graham **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 1210-003

Logged By: Ryan Ostrom

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): 2.0	Surface Seal: Concrete	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Surveyed Location: X: NA	
Screened Interval (ft bgs): 19-24, 24-29, 29-34	Boring Abandonment: Tremie Grout	Y: NA	

APPENDIX D

Cost Estimates

Ultra Custom Care Cleaners Site FS
 Opinion of Probable Construction Cost
 Soil Hot Spot Removal

Item No.	Description		Unit	Plan Quantity	Unit Cost	Total Amount
1	Mobilization, H&S, etc.		LS	1	\$10,000	\$10,000
2	Site prep		LS	1	\$5,000	\$5,000
3	Excavate & dispose contaminated soils		Ton	5000	\$90	\$450,000
4	Import, place and compact clean fill		Ton	5000	\$50	\$250,000
5	Shoring		LS	1	\$10,000	\$10,000
6	Dewatering		LS	1	\$10,000	\$10,000
7						\$0
	Sub-Total					\$735,000
8	Engineering, PS&E, permitting, construction monitoring	10%	EST	1	\$73,500	\$73,500
9	WSST	9.6%	EST	1	\$70,560	\$70,560
10	Contingency	10%	EST	1	\$73,500	\$73,500
	Total					\$952,560

Ultra Custom Care Cleaners Site FS
 Opinion of Probable Construction Cost
 In Situ bioremediation

Item No.	Description		Unit	Plan Quantity	Unit Cost	Total Amount
1	Mobilization, H&S, etc.		LS	2	\$5,000	\$10,000
2	Utilities, prep, etc.		LS	1	\$5,000	\$5,000
3	In situ injections		EA	50	\$2,000	\$100,000
4	Confirmation monitoring, 1 year		LS	1	\$40,000	\$40,000
5						\$0
6						\$0
7						\$0
	Sub-Total					\$155,000
8	Engineering, PS&E, permitting, construction monitoring	10%	EST	1	\$15,500	\$15,500
9	WSST	9.6%	EST	1	\$14,880	\$14,880
10	Contingency	10%	EST	1	\$15,500	\$15,500
	Total					\$200,880

Ultra Custom Care Cleaners Site FS
 Opinion of Probable Construction Cost
 Monitored Natural Attenuation

Item No.	Description		Unit	Plan Quantity	Unit Cost	Total Amount
1	Monitoring, reporting, 8 years, not incl first year included in bic		YR	7	\$40,000	\$280,000
2						\$0
3						\$0
4						\$0
5						\$0
6						\$0
7						\$0
	Sub-Total					\$280,000
8	Engineering, PS&E, permitting, construction monitoring	0%	EST	1	\$0	\$0
9	WSST	0.0%	EST	1	\$0	\$0
10	Contingency	10%	EST	1	\$28,000	\$28,000
	Total					\$308,000

Ultra Custom Care Cleaners Site FS
 Opinion of Probable Construction Cost
 Permeable Reactive Barrier with Zero Valent Iron

Item No.	Description		Unit	Plan Quantity	Unit Cost	Total Amount
1	Mobilization, H&S, etc.		LS	1	\$5,000	\$5,000
2	Utilities, prep, etc.		LS	1	\$4,000	\$4,000
3	PRB with ZVI 30' deep x 75' wide, unit costs from EPA (2001)*		SF	2625	\$230	\$603,750
4						\$0
5						\$0
6						\$0
7						\$0
	Sub-Total					\$612,750
8	Engineering, PS&E, permitting, construction monitoring	10%	EST	1	\$61,275	\$61,275
9	WSST	9.6%	EST	1	\$58,824	\$58,824
10	Contingency	10%	EST	1	\$61,275	\$61,275
	Sub-Total					\$794,124

Ultra Custom Care Cleaners Site FS
 Opinion of Probable Construction Cost
 Institutional Controls

Item No.	Description		Unit	Plan Quantity	Unit Cost	Total Amount
1	Environmental covenant / legal		LS	1	\$5,000	\$5,000
2	Monitoring - included in MNA		YR	0		\$0
3			EA	10		\$0
4			LS	1		\$0
5						\$0
6						\$0
7						\$0
	Sub-Total					\$5,000
8	Engineering, PS&E, permitting, construction monitoring	0%	EST	0	\$0	\$0
9	WSST	0.0%	EST	0	\$0	\$0
10	Contingency	10%	EST	0	\$500	\$0
	Total					\$5,000

Ultra Custom Care Cleaners Site FS
Opinion of Probable Construction Cost
Summary

	Excav	PRB/ZVI	Bio	MNA	E&IC	Total
a Exc & remove, in situ bio, MNA, E&IC	952560		200880	308000	5000	1466440
b PRB/ZVI, MNA, E&IC		794124		308000	5000	1107124
c In situ bio, MNA, lcs			200880	308000	5000	513880

Cost of monitoring added to In situ bio , even though MNA is not part of the remedy