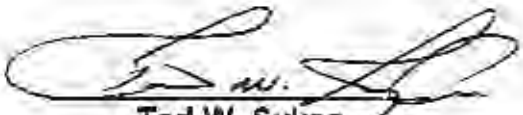
1805 - 136TH PLACE N.E., SUITE 201 · BELLEVUE, WA 98005
PHONE (425) 284-3300 OR (425) 449-4704 · FAX (425) 449-4711

PREPARED FOR

KENT CORPORATE PARK, LLC
C/O ESM PROPERTIES, INC.

April 24, 2014



Ted W. Sykes
Environmental Senior Project Manager

FOR: Kyle R. Campbell, P.E
Principal

GROUNDWATER MONITORING REPORT
BUILDING 'B' KENT CORPORATE PARK
22436 – 72ND AVENUE SOUTH
KENT, WASHINGTON

ES-0104.03

Earth Solutions NW, LLC
2881 – 152nd Place Northeast, Redmond, Washington 98052
Ph: 425-284-3300 Fax: 425-284-2855
Toll Free: 866-336-8710

Table of Contents

ES-0104.03

EXECUTIVE SUMMARY

This report summarizes groundwater monitoring activity performed at 22436 – 72nd Avenue South, Kent, Washington by Earth Solutions NW, LLC (ESNW). The location of the site is shown on Plate 1. The site was remediated by Urban Redevelopment, LLC in 2006 by performing hydrogen peroxide injections inside a remediation well located inside building 'B'.

Presented in this report are the results of the groundwater sampling event completed on April 11, 2014.

During the sampling event, groundwater samples were collected from monitoring wells MW-6, MW-7, and MW-8 located within Building 'B' (Plate 2). The purpose of this sampling event was to assess how the levels of groundwater contaminants changed since the September 11, 2013 sampling event. Monitoring well MW-7 was added to this sampling event after being discovered subsequent to the September 11, 2013 sampling event. Groundwater samples were not collected from monitoring wells located outside Building 'B' (MW-2, MW-3, MW-4, MW-5, and MW-9) during this sampling event.

The samples collected from the wells were analyzed for chlorinated volatile organic compounds (VOCs). Analytical results for groundwater samples collected from MW-6, MW-7, and MW-8 located inside Building 'B' were above Model Toxic Control Act (MTCA) Method A or B groundwater cleanup levels for vinyl chloride, cis-1,2-dichloroethene, and 1,2-dichloroethane (Plate 3). Other VOC constituents were reported by the laboratory as being below MTCA Method A or B groundwater cleanup levels.

When compared to the previous sampling event (September 11, 2013), this analytical data suggests that the concentrations of VOCs in monitoring wells MW-6, MW-7, and MW-8 seem to decrease during the height of the rainy season.

1.0 INTRODUCTION

Between 1981 and 2003, a former Boeing subcontractor, known as Surftech Industries, operated out of Building 'B' of the Kent Corporate Park (KCP), located at 22426 - 72nd Avenue South in Kent, Washington. During this time period, volatile organic compounds (VOCs) were released into the environment through metal finishing and inspection operations on site. The released chlorinated solvents created a VOC groundwater plume underneath Building 'B'. An independent remedial action plan was developed by Urban Redevelopment, LLC and implemented by the current owners of KCP as part of Department of Ecology's (Ecology) Voluntary Cleanup Program (VCP) in accordance with the Washington State Model Toxics Control Act (MTCA) and the requirements of WAC 173-340-350 (Remedial Investigation and Feasibility Study) and WAC 173-340-515 (Independent Remedial Actions). The VCP identity number was NW2105.

The Cleanup Action Plan (CAP), developed by Urban Redevelopment, LLC, outlined the planned remedial actions for the impacted shallow groundwater on site. The CAP proposed limited in-situ treatment of the VOC groundwater plume through a process known as chemical oxidation to be followed with compliance monitoring. The in-situ hydrogen peroxide remediation took place in 2006 within the footprint of the VOC groundwater plume and was performed by Urban Redevelopment, LLC.

1.1 Background

The former Surftech Industries Facility was located in Building 'B' at KCP at 22426- 72nd Avenue South in Kent Washington. Surftech Industries operated between 1981 and 2003. Surftech Industries was an industrial warehouse and light manufacturing complex subcontracted by Boeing.

The VCP site is located geographically in the northwest ¼ of section 13, Township 22 North, Range 4 East, Kent, King County, Washington (Refer to Plate 1 Appendix A). According to the King County Assessors information, the parcel number is 1322049206 of the site.

The former Surftech Industries Facility occupied Building 'B' which was located within a multi-building industrial complex. Building 'B' is a 42,000 square foot, single–story building with an on-grade concrete slab. Surftech industries performed several metal finishing processes while occupying Building 'B', which included painting, solvent degreasing and treating, coating, UV inspection and storage, as well as handling and shipping.

1.2 Current and Historic Property Uses

The project site is located within the Kent Valley, a well established industrial and manufacturing area, between the I-5 corridor and the Valley Freeway (HWY 167). The subject site is zoned industrial (M-2) and is surrounded by properties with similar industrial and commercial zoning.

In 2003, when Surftech departed the subject property, Building 'B' was significantly modified to accommodate a new tenant. The interior operations and partitioning walls (i.e. paint booths, inspection rooms, and chemical storage area) were removed and the existing concrete slab floor was refinished. Building 'B' is currently leased to a cellular company for office furniture storage and sales.

1.3 Geologic and Hydrologic Setting

According to published geologic maps, the project site is situated on the floor of a moderately broad alluvial valley known as the White River Valley. These alluvial (water-deposited) soils are level, permeable, mostly free of rocks. They often have layers of different texture, resulting from different rates of flow of flood water. A high water table exists in most of the alluvial soils. Prior environmental exploration activities of the subject property identified soils which consisted of an upper 4 feet of silt, sand and gravel fill, overlying native organic clayey silts and silty fine grained black sands.

The site has little topographic variation with an approximate elevation of 35 feet above mean sea level. Regional groundwater is inferred to flow in a northwesterly direction based upon local topography and drainage patterns. Mill Creek, a tributary to Springbrook Creek, is the nearest surface water feature and is located approximately 0.50 miles east. The site is in the Black River drainage basin which is part of the Green River watershed. The Green River is approximately 0.60 miles to the northwest.

Previous environmental exploration activities on the subject property encountered groundwater within Building 'B' at approximately 8.0 to 8.02 feet below the ground surface. During this groundwater sampling event, groundwater levels within Building 'B' were measured at depths of approximately 5.7 to 5.8 feet below grade.

1.4 Nature and Extent of Contamination

The nature and extent of contamination at the project site has been investigated by environmental consultants since May 1997 (i.e. Urban Redevelopment LLC, Environmental Associates INC, and URS Corporation). These environmental investigations have identified a groundwater plume containing low concentrations of dissolved VOCs underneath Building 'B'.

The historical use of the chlorinated solvent compound 1,1,1-trichloroethane (TCA) on the subject property has been recognized as the original cause of contamination. TCA can be transformed into secondary contaminants known as daughter products when subsurface anaerobic conditions exist creating a highly reductive environment. The daughter products of TCA are the primary contaminants of concern (COCs) for the subject site. The daughter products of TCA identified on site include vinyl chloride, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, 1,1-dichloroethane and 1,2-dichloroethane. These COCs have been detected in the groundwater plume through environmental sampling of the monitoring wells. The VOC plume area is located below the former chemical storage area in Building 'B'.

Investigations by environmental consultants on the soil surrounding Building 'B' indicate marginal to non-detect levels of contamination. Soil samples extracted directly underneath the chemical storage area contained detectable concentrations of VOCs which were significantly below Ecology MTCA cleanup levels.

2.0 IN-SITU TREATMENT OF DISSOLVED VOC CONCENTRATIONS USING HYDROGEN PEROXIDE INJECTION

The CAP was developed and performed by Urban Redevelopment, LLC in order to reduce the low concentrations of VOCs in the groundwater plume. The plan called for in-situ treatment of VOC concentrations using hydrogen peroxide injection. To reduce VOC concentrations, hydrogen peroxide was directly injected into the impacted shallow groundwater. Urban Redevelopment, LLC injected approximately 100 gallons of 17% hydrogen peroxide into the plume.

3.0 MONITORING WELL SAMPLING PROCEDURES

Sampling activities were conducted on April 11, 2014 from monitoring wells MW-6, MW-7, and MW-8 located within Building 'B' by ESNW. The purpose of this sampling event was to assess how the levels of groundwater contaminants changed since the September 11, 2013 sampling event. Monitoring well MW-7 was added to this sampling event after being discovered subsequent to the September 11, 2013 sampling event. Groundwater samples were not collected from monitoring wells located outside Building B (MW-2, MW-3, MW-4, MW-5, and MW-9) during this sampling event. The location of the monitoring wells is shown on Plate 2 in Appendix A.

Prior to sample collection, each monitoring well was purged to remove stagnant well casing water. The wells were purged a minimum of three well casing volumes until monitored field parameters stabilized. The monitoring wells were allowed to recharge and were then sampled to collect the most representative groundwater sample possible.

Static water levels were measured in the monitoring wells using a water level meter prior to well purging and sampling. The probe was decontaminated with deionized water between measurements. The probe was decontaminated with laboratory grade detergent and rinsed with deionized water between wells.

Groundwater was collected using a peristaltic pump. Groundwater samples to be analyzed for Volatiles using 8260C were collected free of headspace in a 40 mL glass vial with Teflon-lined septa lid and preserved with 1:1 hydrochloric acid. Groundwater samples were submitted to the laboratory for a five day turn-around time.

Samples were taken in accordance with EPA Protocol 5035 and performed using personal protective equipment safety Level D. Each sample was properly labeled with an adhesive label which was affixed to the sample container containing the following information:

- Collector's initials;
- Sample identification;
- Analytical methods requested;
- Company;
- Sample date; and
- Sample time.

Compatible sampling tools and containers were used for sample collection and storage. Sampling tools and equipment were protected from contamination sources prior to sampling and were not reused between samples. Sample containers were also protected from contamination sources. Sampling personnel wore clean chemical resistant gloves when handling sampling equipment and samples. Gloves were disposed of between samples.

Sample containers were immediately stored in an ice-filled cooler and were kept cold (2° Celsius to 6° Celsius). The samples were then transported to the laboratory for testing and analysis of Environmental Protection Agency (EPA) method 8260C volatiles (HVOC).

Sealed glass sampling containers and chain-of-custody forms were provided by an accredited laboratory, (OnSite Environmental, Redmond, WA). Documentation of sample collection and location was completed immediately following sampling.

Chain-of-custody (COC) forms were used and procedures were followed to track possession of the samples from the time they were collected until the analytical data from the samples were received and recorded. The following information was recorded using an ink pen on triplicate forms when samples were collected:

- The names and signatures of the sampler;
- The sample identification number and the date and time of sample collection;
- The site designation and analysis required; and
- The names of any persons involved in transferring samples.

No additional sample seals were necessary as samples were delivered directly to the analytical laboratory by ESNW. Analytical QA/QC results were provided along with the laboratory report to validate data usability. The data was evaluated in accordance with *USEPA National Functional Guidelines for Organic Data Review* and found to meet all requirements for accuracy and precision. A summary of analytical results are provided in Section 4.0 and the complete laboratory report is attached as an enclosure.

4.0 ANALYTICAL RESULTS

The primary contaminants of concern in the project area are vinyl chloride, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, 1,1-dichloroethane, and 1,2-dichloroethane.

Table 1 below presents data for the analytical results from this sampling event. This table also presents the applicable regulatory groundwater quality standards and date sampled. A copy of the laboratory analytical report is included in Appendix B.

As shown in Table 1, analytical results for groundwater samples taken from the wells located inside building 'B' (MW-6, MW-7, and MW-8) were above MTCA Method A or B groundwater cleanup limits for vinyl chloride, cis-1,2-dichloroethene, and 1,2-dichloroethane (see Plate 3). No other VOC constituents were detected above MTCA Method A or B levels.

Table 1 Analytical Results

VOCs	MTCA Cleanup Levels (µg / liter)	Lab Reporting Limits (µg/liter)	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW 8	MW 9
Vinyl Chloride	0.2 (A)	0.2	NS	NS	NS	NS	**8.4**	**13**	**3.0**	NS
1,1-Dichloroethene	400 (B)	0.2	NS	NS	NS	NS	65	150	10	NS
Trans-1,2-Dichloroethene	160 (B)	0.2	NS	NS	NS	NS	1.0	1.6	ND	NS
1,1-Dichloroethane	1600 (B)	0.2	NS	NS	NS	NS	27	150	1.2	NS
Cis-1,2-Dichloroethene	16 (B)	0.2	NS	NS	NS	NS	9.8	**45**	0.24	NS
1,2-Dichloroethane	5 (A)	0.2	NS	NS	NS	NS	1.2	**8.5**	ND	NS
Trichloroethene	5 (A)	0.2	NS	NS	NS	NS	ND	1.2	ND	NS

ND = Indicates not detected
NS = Well not sampled
MTCA = Model Toxics Control Act
(A) = Method A MTCA Standards
(B) = Method B MTCA Standards
Bold indicates above MTCA cleanup level
Note: All analytical results are reported in µg/liter

5.0 QUALITY ASSURANCE

Data quality was checked by running laboratory duplicates and matrix spikes. Appendix B shows the results from laboratory quality control efforts. Duplicate results had good correlation to the original sample results.

5.1 Investigation-Derived Wastes

Investigation-derived waste (IDW) generated during the sampling event consisted of well purge water, used personal protective equipment (PPE) and disposable sampling supplies. During sampling, purge water was stored in 5-gallon buckets. At the completion of sampling, the purge water was transferred to a 25-gallon metal drum stored on-site. Personnel protective equipment and other solid wastes were disposed of in a company dumpster.

6.0 DISCUSSION AND CONCLUSIONS

This report summarizes groundwater monitoring activity performed at 22436 – 72nd Avenue South, Kent, Washington by Earth Solutions NW, LLC (ESNW). The location of the site is shown on Plate 1. The site was remediated by Urban Redevelopment, LLC in 2006 by performing hydrogen peroxide injections inside a remediation well located inside building 'B'. Presented in this report are the results of the groundwater sampling event completed on September 11, 2013.

During the sampling event, groundwater samples were collected from monitoring wells MW-6, MW-7, and MW-8 located within Building 'B' (Plate 2). The purpose of this sampling event was to assess how the levels of groundwater contaminants changed since the September 11, 2013 sampling event. Monitoring well MW-7 was added to this sampling event after being discovered subsequent to the September 11, 2013 sampling event. Groundwater samples were not collected from monitoring wells located outside Building 'B' (MW-2, MW-3, MW-4, MW-5, and MW-9) during this sampling event.

The samples collected from the wells were analyzed for chlorinated volatile organic compounds (VOCs). Analytical results for groundwater samples collected from MW-6, MW-7, and MW-8 located inside Building 'B' were above Model Toxic Control Act (MTCA) Method A or B groundwater cleanup levels for vinyl chloride, cis-1,2-dichloroethene, and 1,2-dichloroethane (Plate 3). Other VOC constituents were reported by the laboratory as being below MTCA Method A or B groundwater cleanup levels.

When compared to the previous sampling event (September 11, 2013), this analytical data suggests that the concentrations of VOCs in monitoring wells MW-6, MW-7, and MW-8 seem to decrease during the height of the rainy season.

Plates

ES-0104.03

Reference:
King County, Washington
Map 685
By The Thomas Guide
Rand McNally
32nd Edition

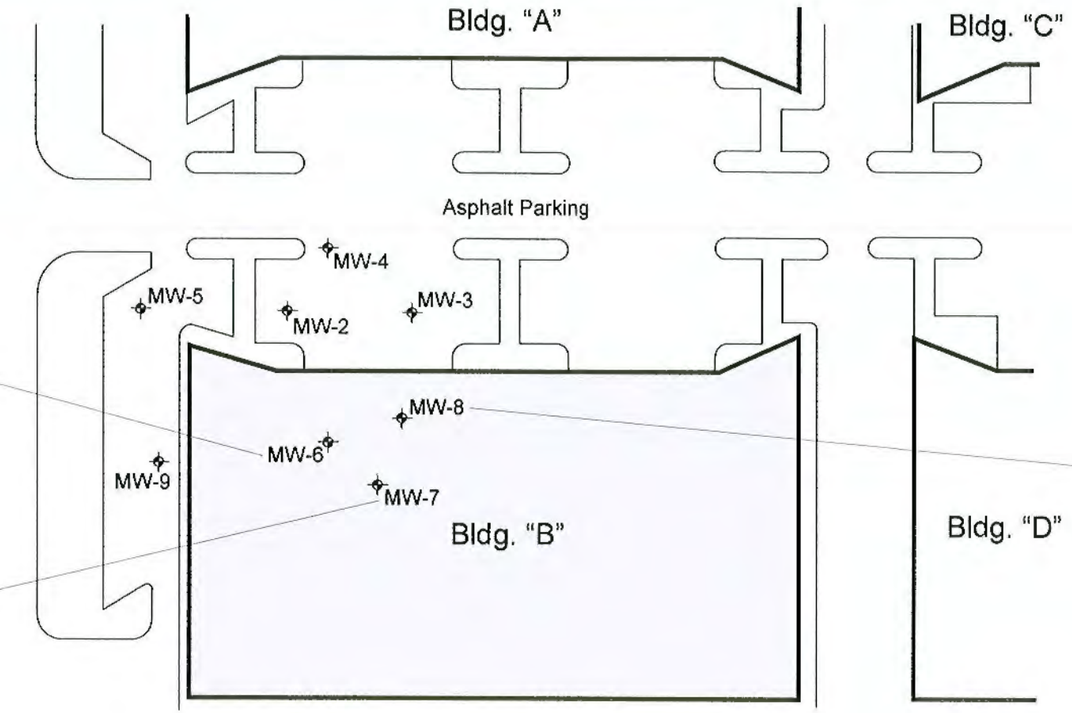
NORTH

Earth Solutions NW

Vicinity Map
Kent Corporate Park Building "B"
Kent, Washington

Drwn. GLS	Date 04/23/2014	Proj. No. 0104.03
Checked TWS	Date April 2014	Plate 1

NOTE: This plate may contain areas of color. ESNW cannot be responsible for any subsequent misinterpretation of the information resulting from black & white reproductions of this plate.



MW-6	04/23/2014
Groundwater	ug/liter
Vinyl Chloride	***8.4***
1,1 Dichloroethene	65
Trans - 1,2 - Dichloroethene	1.0
1,1 - Dichloroethane	27
cis - 1,2 - Dichloroethene	9.8
1,2 - Dichloroethane	1.2
Carbon Disulfide	ND

MW-7	04/23/2014
Groundwater	ug/liter
Vinyl Chloride	***13***
1,1 Dichloroethene	150
Trans - 1,2 - Dichloroethene	1.6
1,1 - Dichloroethane	150
cis - 1,2 - Dichloroethene	***45***
1,2 - Dichloroethane	***8.5***
Trichloroethene	1.2

MW-8	04/23/2014
Groundwater	ug/liter
Vinyl Chloride	***3.0***
1,1 Dichloroethene	***10***
Trans - 1,2 - Dichloroethene	ND
1,1 - Dichloroethane	1.2
cis - 1,2 - Dichloroethene	0.24
1,2 - Dichloroethane	ND
Trichloroethene	ND

LEGEND

MW-6 ⌖ Approximate Location of Monitoring Well

Existing Building

NORTH

Not - To - Scale

NOTE: The graphics shown on this plate are not intended for design purposes or precise scale measurements, but only to illustrate the approximate test locations relative to the approximate locations of existing and / or proposed site features. The information illustrated is largely based on data provided by the client at the time of our study. ESNW cannot be responsible for subsequent design changes or interpretation of the data by others.

NOTE: This plate may contain areas of color. ESNW cannot be responsible for any subsequent misinterpretation of the information resulting from black & white reproductions of this plate.

MTCA STANDARDS GROUNDWATER	
Existing Cleanup Level	ug/liter
Vinyl Chloride	0.2(A)
1,1 - Dichloroethene	400(B)
Trans - 1,2 - Dichloroethene	160(B)
1.1 - Dichloroethane	1600(B)
cis - 1,2 - Dichloroethene	16(B)
1,2 - Dichloroethane	5(A)
Trichloroethene	5(A)

NOTES:

ND = Not Detected

MTCA = Model Toxic Control Act

Method A or B = Groundwater Cleanup Levels under MTCA 173-340-WAC

18 Denotes Concentrations above existing MTCA Method A or B Groundwater Cleanup Levels

Groundwater Monitoring Well Data
Kent Corporate Park Building "B"
Kent, Washington

Earth Solutions NW LLC
Geotechnical Engineering, Construction Monitoring and Environmental Sciences

Drwn. By	GLS
Checked By	TWS
Date	04/23/2014
Proj. No.	0104.03
Plate	3

Appendix A

Analytical Results

ES-0104.03

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

April 18, 2014

Ted Sykes
Earth Solutions NW, LLC
1805 136th Place NE, Suite #201
Bellevue, WA 98005

Re: Analytical Data for Project ES-0104.03
Laboratory Reference No. 1404-089

Dear Ted:

Enclosed are the analytical results and associated quality control data for samples submitted on April 11, 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: April 16, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

Case Narrative

Samples were collected on April 11, 2014 and received by the laboratory on April 11, 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: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES EPA 8260C

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	04-089-01					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Chloromethane	ND	2.0	EPA 8260C	4-15-14	4-15-14	
Vinyl Chloride	8.4	0.40	EPA 8260C	4-15-14	4-15-14	
Bromomethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Chloroethane	ND	2.0	EPA 8260C	4-15-14	4-15-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethene	65	0.40	EPA 8260C	4-15-14	4-15-14	
Acetone	ND	10	EPA 8260C	4-15-14	4-15-14	
Iodomethane	ND	2.0	EPA 8260C	4-15-14	4-15-14	
Carbon Disulfide	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Methylene Chloride	ND	2.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,2-Dichloroethene	1.0	0.40	EPA 8260C	4-15-14	4-15-14	
Methyl t-Butyl Ether	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethane	27	0.40	EPA 8260C	4-15-14	4-15-14	
Vinyl Acetate	ND	2.0	EPA 8260C	4-15-14	4-15-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
(cis) 1,2-Dichloroethene	9.8	0.40	EPA 8260C	4-15-14	4-15-14	
2-Butanone	ND	10	EPA 8260C	4-15-14	4-15-14	
Bromochloromethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Chloroform	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Benzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloroethane	1.2	0.40	EPA 8260C	4-15-14	4-15-14	
Trichloroethene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Dibromomethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Bromodichloromethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
2-Chloroethyl Vinyl Ether	ND	9.0	EPA 8260C	4-15-14	4-15-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Methyl Isobutyl Ketone	ND	4.0	EPA 8260C	4-15-14	4-15-14	
Toluene	ND	2.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	4-15-14	4-15-14	

Date of Report: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES EPA 8260C

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6**					
Laboratory ID:	04-089-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Tetrachloroethene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
2-Hexanone	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Dibromochloromethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Chlorobenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Ethylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
m,p-Xylene	ND	0.80	EPA 8260C	4-15-14	4-15-14	
o-Xylene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Styrene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Bromoform	ND	2.0	EPA 8260C	4-15-14	4-15-14	
Isopropylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Bromobenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	4-15-14	4-15-14	
n-Propylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,3,5-Trimethylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
tert-Butylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trimethylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
sec-Butylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
p-Isopropyltoluene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
n-Butylbenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
Naphthalene	ND	2.5	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichlorobenzene	ND	0.54	EPA 8260C	4-15-14	4-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*62-122*				
Toluene-d8	*99*	*70-120*				
4-Bromofluorobenzene	*94*	*71-120*				

Date of Report: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES EPA 8260C

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-7**					
Laboratory ID:	04-089-02					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Chloromethane	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Vinyl Chloride	13	1.0	EPA 8260C	4-15-14	4-15-14	
Bromomethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Chloroethane	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Trichlorofluoromethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethene	150	1.0	EPA 8260C	4-15-14	4-15-14	
Acetone	ND	25	EPA 8260C	4-15-14	4-15-14	
Iodomethane	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Carbon Disulfide	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Methylene Chloride	ND	5.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,2-Dichloroethene	1.6	1.0	EPA 8260C	4-15-14	4-15-14	
Methyl t-Butyl Ether	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethane	150	1.0	EPA 8260C	4-15-14	4-15-14	
Vinyl Acetate	ND	5.0	EPA 8260C	4-15-14	4-15-14	
2,2-Dichloropropane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
(cis) 1,2-Dichloroethene	45	1.0	EPA 8260C	4-15-14	4-15-14	
2-Butanone	ND	25	EPA 8260C	4-15-14	4-15-14	
Bromochloromethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Chloroform	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Carbon Tetrachloride	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloropropene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Benzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloroethane	8.5	1.0	EPA 8260C	4-15-14	4-15-14	
Trichloroethene	1.2	1.0	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloropropane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Dibromomethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Bromodichloromethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
2-Chloroethyl Vinyl Ether	ND	23	EPA 8260C	4-15-14	4-15-14	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Methyl Isobutyl Ketone	ND	10	EPA 8260C	4-15-14	4-15-14	
Toluene	ND	5.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	4-15-14	4-15-14	

Date of Report: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	04-089-02					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Tetrachloroethene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,3-Dichloropropane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
2-Hexanone	ND	10	EPA 8260C	4-15-14	4-15-14	
Dibromochloromethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromoethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Chlorobenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Ethylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
m,p-Xylene	ND	2.0	EPA 8260C	4-15-14	4-15-14	
o-Xylene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Styrene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Bromoform	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Isopropylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Bromobenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
n-Propylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
2-Chlorotoluene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
4-Chlorotoluene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,3,5-Trimethylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
tert-Butylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trimethylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
sec-Butylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
p-Isopropyltoluene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
n-Butylbenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Naphthalene	ND	6.5	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichlorobenzene	ND	1.4	EPA 8260C	4-15-14	4-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*62-122*				
Toluene-d8	*99*	*70-120*				
4-Bromofluorobenzene	*93*	*71-120*				

Date of Report: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	04-089-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chloromethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Vinyl Chloride	3.9	0.20	EPA 8260C	4-15-14	4-15-14	
Bromomethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chloroethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethene	10	0.20	EPA 8260C	4-15-14	4-15-14	
Acetone	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Iodomethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Carbon Disulfide	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Methylene Chloride	ND	1.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethane	1.2	0.20	EPA 8260C	4-15-14	4-15-14	
Vinyl Acetate	ND	1.0	EPA 8260C	4-15-14	4-15-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
(cis) 1,2-Dichloroethene	0.24	0.20	EPA 8260C	4-15-14	4-15-14	
2-Butanone	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Bromochloromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chloroform	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Benzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Trichloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Dibromomethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Bromodichloromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
2-Chloroethyl Vinyl Ether	ND	4.5	EPA 8260C	4-15-14	4-15-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-15-14	4-15-14	
Toluene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-15-14	4-15-14	

Date of Report: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES EPA 8260C

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-8**					
Laboratory ID:	04-089-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Tetrachloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
2-Hexanone	ND	2.5	EPA 8260C	4-15-14	4-15-14	
Dibromochloromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Ethylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
m,p-Xylene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
o-Xylene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Styrene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Bromoform	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Isopropylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Bromobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
n-Propylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
n-Butylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Naphthalene	ND	1.3	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	4-15-14	4-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*62-122*				
Toluene-d8	*100*	*70-120*				
4-Bromofluorobenzene	*95*	*71-120*				

Date of Report: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES 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:	MB0415W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chloromethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Vinyl Chloride	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Bromomethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chloroethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Acetone	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Iodomethane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Carbon Disulfide	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Methylene Chloride	ND	1.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Vinyl Acetate	ND	1.0	EPA 8260C	4-15-14	4-15-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
2-Butanone	ND	5.0	EPA 8260C	4-15-14	4-15-14	
Bromochloromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chloroform	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Benzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Trichloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Dibromomethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Bromodichloromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
2-Chloroethyl Vinyl Ether	ND	4.5	EPA 8260C	4-15-14	4-15-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-15-14	4-15-14	
Toluene	ND	1.0	EPA 8260C	4-15-14	4-15-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-15-14	4-15-14	

Date of Report: April 16, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0415W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Tetrachloroethene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
2-Hexanone	ND	2.5	EPA 8260C	4-15-14	4-15-14	
Dibromochloromethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Chlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Ethylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
m,p-Xylene	ND	0.40	EPA 8260C	4-15-14	4-15-14	
o-Xylene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Styrene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Bromoform	ND	1.0	EPA 8260C	4-15-14	4-15-14	
Isopropylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Bromobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-15-14	4-15-14	
n-Propylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
n-Butylbenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-15-14	4-15-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	4-15-14	4-15-14	
Naphthalene	ND	1.3	EPA 8260C	4-15-14	4-15-14	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	4-15-14	4-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*52-122*				
Toluene-d8	*99*	*70-120*				
4-Bromofluorobenzene	*94*	*71-120*				

Date of Report: April 18, 2014
Samples Submitted: April 11, 2014
Laboratory Reference: 1404-089
Project: ES-0104.03

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0415W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.5**	**10.3**	10.0	10.0	105	103	63-142	2	17	
Benzene	**9.93**	**9.84**	10.0	10.0	99	98	78-125	1	15	
Trichloroethene	**9.63**	**9.58**	10.0	10.0	96	96	80-125	1	15	
Toluene	**9.65**	**9.65**	10.0	10.0	97	97	80-125	0	15	
Chlorobenzene	**10.3**	**10.3**	10.0	10.0	103	103	80-140	0	15	
Surrogate:										
Dibromofluoromethane					*82*	*82*	*82-122*			
Toluene-d8					*97*	*97*	*70-120*			
4-Bromofluorobenzene					*92*	*95*	*71-120*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample

N - Hydrocarbons in the lube oil range are impacting the diesel range result

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result

P - The RPD of the detected concentrations between the two columns is greater than 40

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 04-089

Company: Earth Solutions NW
Project Number: ES-0104.03
Project Name: BLDG. B - KENT Corporate Park
Project Manager: Ted W. Sykes
Sampled by: Ted W. Sykes

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	No. of Containers	NWTPH-HCID	NWTPH-Dx/Dx Ext	NWTPH-Gx	BTEX by 8021B	Volatiles 8260C	Halogenated Volatiles 8260C	Semi-Volatiles 8270D/SIM (with low-level PAHs)	PAHs by 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	TCLP RCRA Metals	Total NWTPH Metals	TCLP Metals	HEM (oil and grease) 1664A					
1	MW-6	4/11/14		WATER	3					X																
2	MW-7	↓		↓	3					X																
3	MW-8	↓		↓	3					X																

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		ESNW	4/11/14		
Received		OSE	4/11/14	1053	
Relinquished					
Received					
Relinquished					
Received					

Reviewed/Date: _____ Reviewed/Date: _____ Chromatograms with final report

Data Package: Standard ☐ Level ☐ Level ☐ Electronic Data Deliverables (EDDs): _____

Report Distribution

ES-0104.03

EMAIL ONLY

Kent Corporate Park, LLC
c/o ESM Properties, Inc.
15100 Southeast 38th Street #792
Bellevue, Washington 98006

Attention: Mr. Eric Mitchell