

TERRA ASSOCIATES, Inc.

Consultants in Geotechnical Engineering, Geology and Environmental Earth Sciences

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HALCO PROPERTIÈS, LLC

Mr. Brett Cowman c/o Betts, Patterson & Mines, P.S. 701 Pike Street, Suite 1400 Seattle, Washington 98101-3927

Subject:

Technical Memo-Fall 2011 Quarterly Sampling

5221 Ballard Avenue NW Seattle, Washington

Reference:

Phase II Environmental Site Assessment, prepared by Terra Associates, dated July 29, 2011

Dear Mr. Cowman:

As requested, we have completed the fall 2011 quarterly sampling of the four monitoring wells constructed to document groundwater conditions at 5221 Ballard Avenue NW in Seattle, Washington.

The attached memo presents the results of analytical testing and our current conclusions in more detail.

We trust the information presented is sufficient for your current needs. If you have any questions or require additional information, please call.

Respectfully submitted,

TERRA ASSOCIATES, INC.

Charles R. Lie, L.H.G.

Project Manager

cc:

Mr. Livingston Wernecke, Betts, Patterson & Mines, P.S.

Mr. Steve Cowman

Ms. Audrey Heisey, NWRO WDOE

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Analytical Laboratory Report

Fall Quarter 2011 Groundwater Sampling 5221 Ballard Avenue NW Seattle, Washington VCP NW 2496

1.0 EXECUTIVE SUMMARY

This memo summarized the fall quarter sampling for 2011 for the parcel at 5221 Ballard Avenue NW in Seattle, Washington. This parcel is being sampled separately from the parcels that comprise the southern portion of the Cowman Campbell Paint site. The UST cluster on the 5221 site is a distinctly separate site relative to the former UST cluster on the parcels that front on Shilshole Avenue NW. Based on the data collected over the past 15 years, it is our opinion that the plumes from the two UST clusters do not overlap.

2.0 SCOPE OF WORK

Our scope of work for this supplemental report consisted of the following:

- Sampling groundwater from Monitoring Wells MW-101 through MW-104.
- Subcontracting analytical testing of groundwater samples.
- Appropriate analysis of the data.
- Preparation of this report.

3.0 SITE CONDITIONS

3.1 Surface

The site is located at 5221 Ballard Avenue NW in Seattle, Washington. The site location is shown on Figures 1 and 2. The site layout is shown on Figure 3.

3.2 Groundwater

Table 1 summarizes the current and previous groundwater measurements. The current groundwater gradient is towards the southwest consistent with the previous measurements. The gradient has flattened. The static water level has decreased as would be expected during the drier summer months.

Table 1
Groundwater Measurements

Monitoring	Surface	MP	5/6/11		5/10/2011		6/29/2011		9/29/11	
Well	Elev	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.
MW-101	36.77	36.37	10.3	26.07	10.45	25.92	10.78	25.59	11.63	24.74
MW-102	36.35	* 35.93	10.25	25.68	9.81	26.12	10.08	25.85	11	24.93
MW-103	36.13	35.79	10.25	25.54	9.38	26.41	9.74	26.05	10.86	24.93
MW-104	28.23	27.98					2.76	25.22	3.55	24.43

Notes: MP is the north side of the top of the PVC casing within the surface monument. Ground surface elevations are from a survey by Jim Hart and Associates.

4.0 FIELD SAMPLING

Groundwater monitoring wells were constructed in each of the borings conducted for this study. The wells are built with two-inch diameter PVC well materials. The screens are factory slotted with 0.01-inch openings. The screen segments were backfilled with silica sand. All wells were constructed in accordance with Washington State well construction requirements.

All samples are obtained using a peristaltic pump and low flow pump rates. A minimum of three casing volumes are removed prior to sampling. Groundwater parameters are monitored during purging to verify that stable groundwater conditions have been reached prior to sampling.

All groundwater samples were placed into laboratory-prepared glassware. Each sample was given unique sample identification. All samples were kept refrigerated pending delivery to OnSite Environmental Inc. in Redmond, Washington. Chain of custody protocols were followed for all samples.

5.0 LABORATORY TESTING

5.1 General

The constituents of concern (COCs) are paint thinners, petroleum hydrocarbons including Diesel No. 2 (Heating oil), and volatile organic compounds. The COCs are based on the past use of the land and previous sampling by others documented in the reports listed in our referenced Phase II ESA report. Groundwater samples were analyzed for the following analytes:

- Total petroleum hydrocarbons (TPH) in the gasoline through heavy oil range.
- Volatile organic compounds.

All testing was performed within the designated holding times. At the laboratory, standard quality control procedures were followed. The procedures consisted of sample blanks, duplicates, and matrix spikes. All testing was within normal standards. OnSite Environmental Inc. has accreditation from Ecology for all of the testing performed during this project.

Based on our review of the laboratory data, it is our opinion that the results are acceptable for current use. The laboratory report is attached to this memo.

5.2 Groundwater

The following tables are cumulative for Monitoring Wells MW-101 through MW-104.

Table 3
Total Petroleum Hydrocarbons
Groundwater

Well Number	Date	TPH Gas Range	TPH Diesel Range	TPH Oil Range
MW-101	5/10/11	0.16	0. 26 U	0.41U
	9/29/11	0.29	0. 26 U	0.42U
MW-102	5/10/11	0.5U	0.27U	0.41U
	9/29/11	0.59	0.26U	0.41U
MW-103	5/10/11	0.94	0.7U	0.42U
	9/29/11	0.27	0.26U	0.41U
MW-104	6/29/11	0.1U	0.41U	0.26U
	9/29/11	0.1U	0.26U	0.41U
MTCA		0.8 (1.0)	0.5	0.5

Notes: All units are ppm.

U modifier indicates that the compound was not present at the PQL. Cleanup value of 1.0 for TPHG is applicable when no BETX is present.

Table 4
Volatile Organic Compounds
Groundwater

						
Well Number	Date	Вепzепе	Ethyl benzene	Toluene	m,p-Xylene	o-Xylene
MW-101	5/10/11	1.3	0.95	1.0U	1.5	0.2U
	9/29/11	2.8	1.2	1.0U	0.4U	0. 2 U
MW-102	5/10/11	0.2U	0.2U	1.0U	0.4U	0.2U
	9/29/11	0.2U	0.2U	1.0U	0.4U	0.2U
MW-103	5/10/11	0.2U	0.2U	1.0U	0.4U	0.2U
	9/29/11	0.2U	0.2U	1.0U	0.4U	0.2U
MW-104	6/29/11	0.27	0.2U	1.0U	0.4U	0. 2 U
	9/29/11	0.21	0.2U	1.0U	0.4U	0.2U
МТ	CA	5.0	700	1,000	1,0	000

Table 4 (continued) Volatile Organic Compounds

Groundwater

Well Number	Date	Vinyl Chloride	1,1-Dichlroethane	(cis) 1,2- Dichlorochtene	Trichloroethylene	Tetrachloroethylene
MW-101	5/10/11	0.2U	0.49	0.39	0.2U	0.2U
	9/29/11	0.2U	0.46	0.31	0.2U	0.2U
MW-102	5/10/11	0.2U	0.2U	0.2U	0.2U	0.2U
	9/29/11	0.2U	0.2U	0.2U	0.2U	0.2U
MW-103	5/10/11	0.2U	0.2U	0.2U	0.2U	0.2U
	9/29/11	0.2U	0.2U	0.2U	0.2U	0.2U
MW-104	6/29/11	0.2U	0.23	0.2U	0.2U	0.2U
	9/29/11	0.2U	0.2U	0.2U	0.2U	0.2U
MTCA		0.2	1,600	16	5.0	5.0

Well Number	Date	Isopropyl benzene	n-Propylbenzene	1,3,5- Trimehylbenzene	1,2,4- Trimethylbenzene
MW-101	5/10/11	1.1	1.1	0.77	5.2
	9/29/11	3.2	3.4	0.2U	0.9
MW-102	5/10/11	0.2U	0.2U	0.2U	0.2U
	9/29/11	0.22	0.2U	0.2U	0.2U
MW-103	5/10/11	0.2U	0.2U	0.2U	0.2U
	9/29/11	0.2U	0.2U	0.2U	0.2U
MW-104	6/29/11	0.2U	0.2U	0.2U	0.2U
	9/29/11	0.2U	0.2U	0.2U	0.2U
MTCA		NP	800	80	15

Notes:

All units are parts per billion, ppb.

Cleanup values are Method A: values in italics are Method B or EPA PRG Region 9 values. U modifier indicates that the analyte was not present at the numerical practical quantitation limit. NP indicates that there is no screening level of cleanup level posted for the individual compound.

Table 5
Groundwater Parameters

Well Number	Date	Hq	Conductivity	DO	ORP	Тетр.
NAVY 101	5/10/11	NM	NM	NM	NM	15.3
MW-101	7/6/11	6.55	148	0.32	-10	16.0
	9/29/11	6.4	699	3.84	-115	16.7
MW-102	5/10/11	NM	NM	NM	NM	15.2
	9/29/11	6.44	483	1.7	-117	17.4
3.6337.102	5/10/11	NM	NM	NM	NM	16.1
MW-103	7/6/11	6.49	113	0.3	-45	16.6
	9/29/11	6.39	455	1.8	-120	18
MW-104	9/29/11	6.35	794	1.7	-99	17.4

Notes:

DO is measured in ppm.

ORP is measured in milli volts.

Conductivity is measured in micro Siemens.

pH is in standard units.

Temperature is in degrees Celsius.

6.0 DISCUSSION

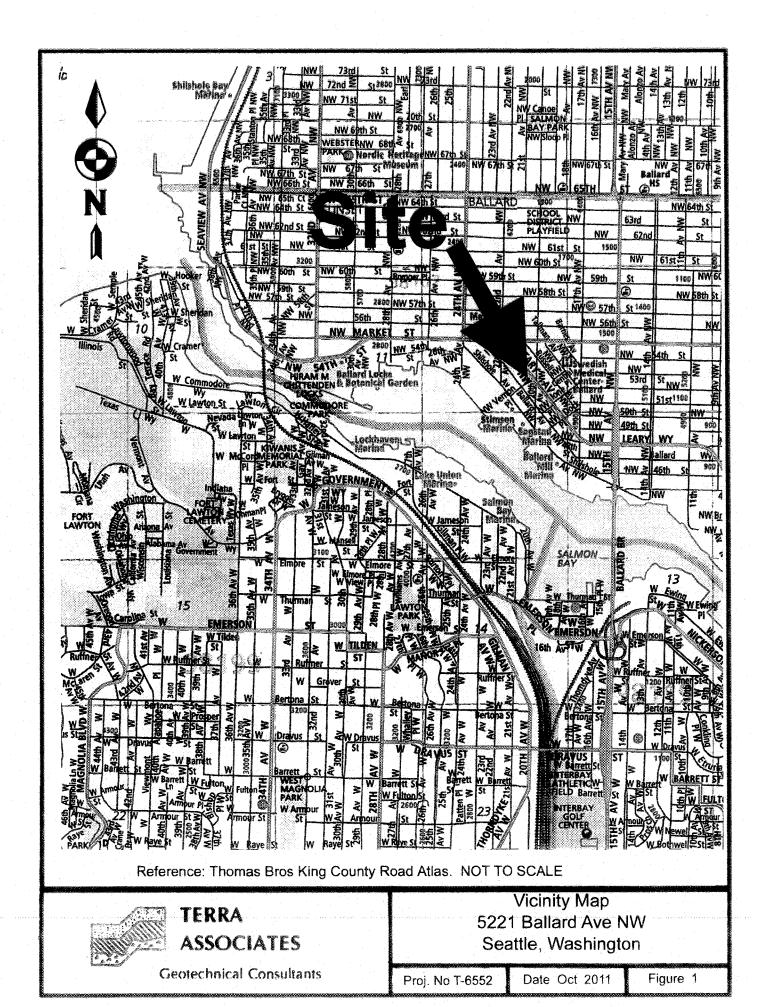
As can be seen in the tables there are no exceedances of the MTCA cleanup values in the groundwater samples from the 4 wells placed to document the USTs on the 5221 Ballard Avenue NW site.

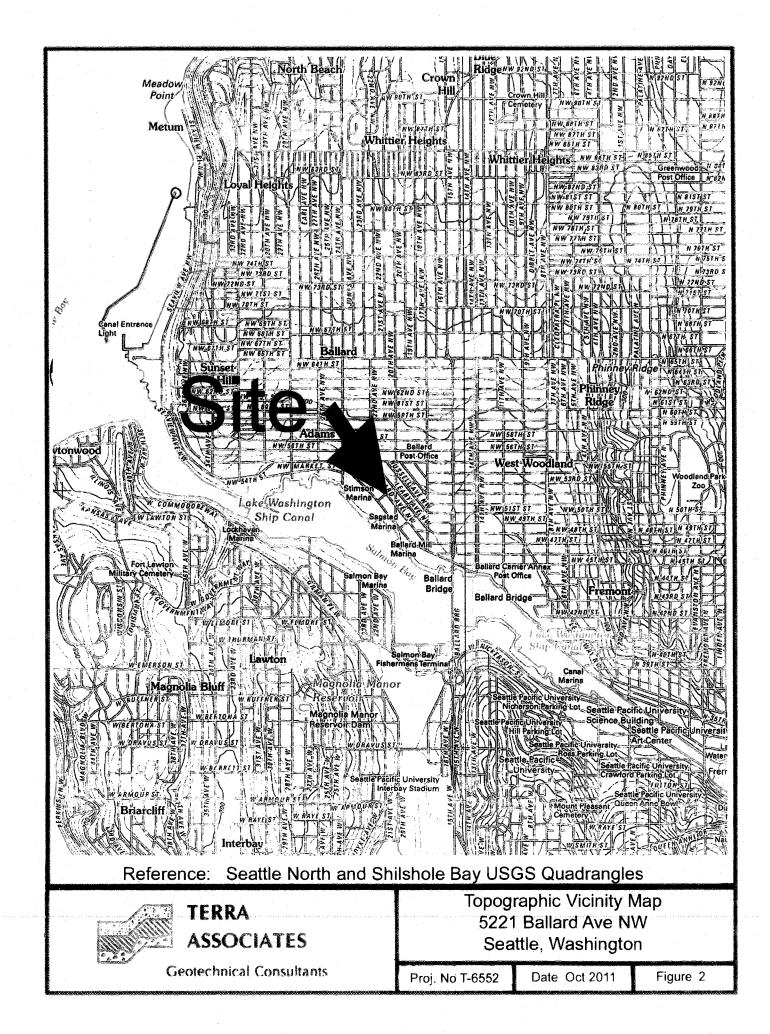
7.0 LIMITATIONS

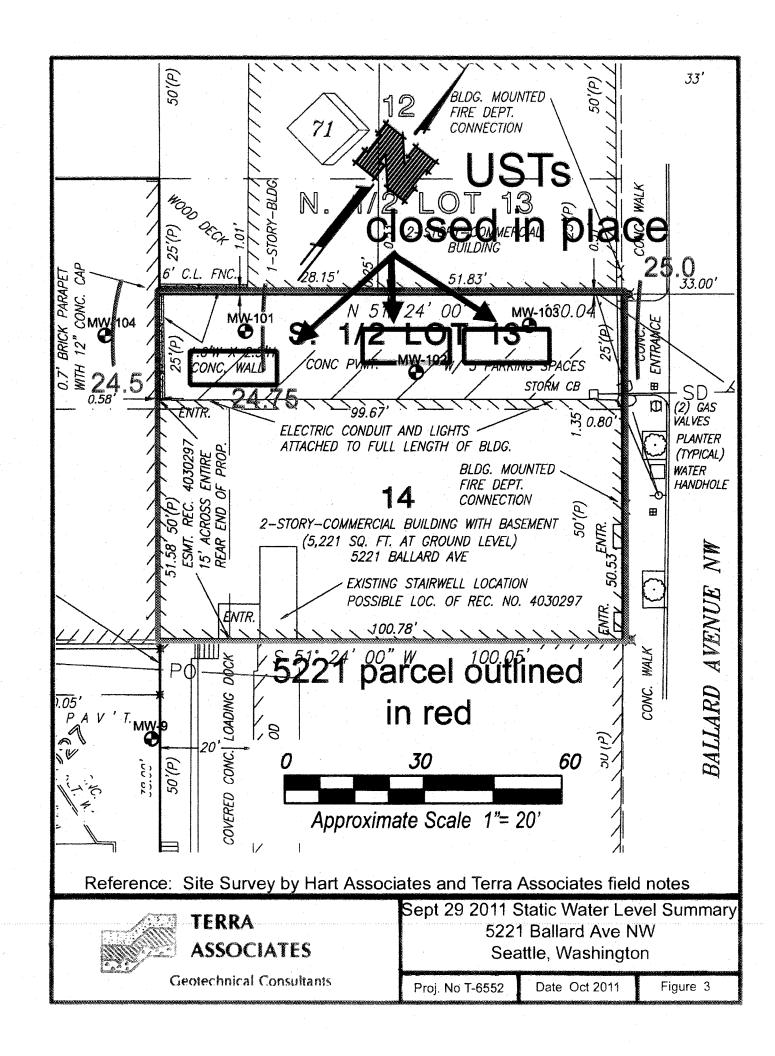
This memo is the copyrighted property of Terra Associates, Inc. and was prepared in accordance with generally accepted local geo-environmental engineering practices and within the limitations of time and budget. Analytical testing of samples was based on our understanding of past land uses documented in reports by others and the tax records. In the event additional information regarding site history or current site uses is found, the information should be brought to our attention, as it may affect our conclusions.

This memo is intended for specific application to the 5221 Ballard Avenue NW project, and is for the exclusive use of Halco Properties, LLC and their authorized representatives. No other warranty, expressed or implied, is made.

The analyses and recommendations presented in this report are based on information prepared by others together with data obtained from explorations advanced on the site, and selected analyses of soils samples for this study. The conclusions reached in this report are our opinions based on the previous and current explorations and analytical test data summarized and discussed in this report. Subsurface conditions may vary and seasonal variations in groundwater may occur.









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

October 7, 2011

Chuck Lie Terra Associates, Inc. 12525 Willows Road, Suite 101 Kirkland, WA 98034

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1109-207

Dear Chuck:

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,

David Baumeister Project Manager

Enclosures

Date of Report: October 7, 2011

Samples Submitted: September 29, 2011

Laboratory Reference: 1109-207

Project: 6552

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.

Date of Report: October 7, 2011

Samples Submitted: September 29, 2011 Laboratory Reference: 1109-207 Project: 6552

NWTPH-Gx

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-101					
Laboratory ID:	09-207-01					
Gasoline	290	100	NWTPH-Gx	10-4-11	10-4-11	0
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	73-121				
Client ID:	MW-102					
Laboratory ID:	09-207-02					
Gasoline	590	100	NWTPH-Gx	10-4-11	10-4-11	
Surrogate:	Percent Recovery	Control Limits				·
Fluorobenzene	92	73-121				
Client ID:	MW-103					
Laboratory ID:	09-207-03					
Gasoline	270	100	NWTPH-Gx	10-4-11	10-4-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	73-121				
Client ID:	MW-201					
Laboratory ID:	09-207-04					
Gasoline	ND	100	NWTPH-Gx	10-4-11	10-4-11	
Surrogate:	Percent Recovery	Control Limits				-
Fluorobenzene	91	73-121				

Laboratory Reference: 1109-207

Project: 6552

NWTPH-Gx QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

A Just .	Desail	DOL	BB-Alice of	Date	Date	- .
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK	•					
Laboratory ID:	MB1004W3					
Gasoline	ND	100	NWTPH-Gx	10-4-11	10-4-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	73-121				

					Source	Percent	Recovery		RPD	
Analyte	Result		Spike Level		Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	09-20	07-04								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:		,								
Fluorobenzene						91 87	73-121			

Date of Report: October 7, 2011 Samples Submitted: September 29, 2011 Laboratory Reference: 1109-207

Project: 6552

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Water Units: ma/L (ppm)

Units: mg/L (ppm)						
A Ind -	D	DO 1	5.5 - A1 I	Date	Date	- 1
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-101					
Laboratory ID:	09-207-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	10-3-11	10-3-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	98	50-150				
Client ID:	MW-102					
Laboratory ID:	09-207-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	10-3-11	10-3-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits	-			
o-Terphenyl	107	50-150				
Client ID:	MW-103					
Laboratory ID:	09-207-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	10-3-11	10-3-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				
Client ID:	MW-201					
Laboratory ID:	09-207-04					
Diesel Range Organics	ND	0.26	NWTPH-Dx	10-3-11	10-3-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	102	50-150				

Laboratory Reference: 1109-207

Project: 6552

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Water Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1003W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	10-3-11	10-3-11	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	103	50-150				

			Pe	rcent	Recovery		RPD	
Analyte	Res	sult	Red	overy	Limits	RPD	Limit	Flags
DUPLICATE							-	
Laboratory ID:	09-20	07-01						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			98	100	50-150			

Date of Report: October 7, 2011

Samples Submitted: September 29, 2011

Laboratory Reference: 1109-207

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Water Units: ug/L

Client ID: MW-101 Laboratory ID: 09-207-01 Dichlorodiffuoromethane 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 Trichlorofluoromethane ND 0.20 EPA 8260 10-3-11 10-3-11 Trichlorofluoromethane ND 0.20 EPA 8260 10-3-11 10-3-11 Inchlorosthane ND 0.20 EPA 8260 10-3-11 10-3-11 Garbon Disulfide ND 0.20 EPA 8260 10-3-11 10-3-11 Methylene Chloride ND 0.20 EPA 8260 10-3-11 10-3-11	-				Date	Date	
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Dichlorodiffluoromethane	Client ID:	MW-101					
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 Trichloroethene ND 0.20 EPA 8260 10-3-11 10-3-11 Acetone ND 5.0 EPA 8260 10-3-11 10-3-11 Iodomethane ND 1.0 EPA 8260 10-3-11 10-3-11 Iodomethane ND 1.0 EPA 8260 10-3-11 10-3-11 Iodomethane ND 0.20 EPA 8260 10-3-11 10-3-11 Iodomethane ND 0.20 EPA 8260 10-3-11 10-3-11 Carbon Disultide ND 1.0 EPA 8260 10-3-11 10-3-11 Methylene Chlo	Laboratory ID:	09-207-01					
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Indode	1,1-Dichloroethene	ND	0.20	EPA 8260	10-3-11	10-3-11	
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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 Benzene 2.8 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 1,2-Dichloromethane 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 0.20 EPA 8260 10-3-11	(cis) 1,2-Dichloroethene	0.31	0.20	EPA 8260	10-3-11	10-3-11	
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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 Benzene 2.8 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 Methyl Isobutyl Ketone ND 2.0 EPA 8260 10-3-11 10-3-11 Toluene ND 1.0 EPA 8260 10-3-11 <t< td=""><td>Chloroform</td><td>ND</td><td>0.20</td><td>EPA 8260</td><td>10-3-11</td><td>10-3-11</td><td></td></t<>	Chloroform	ND	0.20	EPA 8260	10-3-11	10-3-11	
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Benzene 2.8 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 Methyl Isobutyl Ketone ND 2.0 EPA 8260 10-3-11 10-3-11 Toluene ND 1.0 EPA 8260 10-3-11 10-3-11	Carbon Tetrachloride	ND	0.20	EPA 8260	10-3-11	10-3-11	
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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 Methyl Isobutyl Ketone ND 2.0 EPA 8260 10-3-11 10-3-11 Toluene ND 1.0 EPA 8260 10-3-11 10-3-11	Benzene	2.8	0.20	EPA 8260	10-3-11	10-3-11	
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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 Methyl Isobutyl Ketone ND 2.0 EPA 8260 10-3-11 10-3-11 Toluene ND 1.0 EPA 8260 10-3-11 10-3-11	Trichloroethene	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 Methyl Isobutyl Ketone ND 2.0 EPA 8260 10-3-11 10-3-11 Toluene ND 1.0 EPA 8260 10-3-11 10-3-11	1,2-Dichloropropane	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 Methyl Isobutyl Ketone ND 2.0 EPA 8260 10-3-11 10-3-11 Toluene ND 1.0 EPA 8260 10-3-11 10-3-11	Dibromomethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
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Methyl Isobutyl Ketone ND 2.0 EPA 8260 10-3-11 10-3-11 Toluene ND 1.0 EPA 8260 10-3-11 10-3-11	2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	10-3-11	10-3-11	
Toluene 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	
	Methyl Isobutyl Ketone	ND	2.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene ND 0.20 EPA 8260 10-3-11 10-3-11	Toluene	ND	1.0	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 7, 2011

Samples Submitted: September 29, 2011 Laboratory Reference: 1109-207 Project: 6552

4-Bromofluorobenzene

VOLATILES by EPA 8260B page 2 of 2

Anabas	b	DC:		Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-101					
Laboratory ID:	09-207-01					
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	
2-Hexanone	ND	2.0	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	
Ethylbenzene	1.2	0.20	EPA 8260	10-3-11	10-3-11	
n,p-Xylene	ND	0.40	EPA 8260	10-3-11	10-3-11	
o-Xylene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Styrene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Isopropylbenzene	3.2	0.20	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	
n-Propylbenzene	3.4	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	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
ert-Butylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,4-Trimethylbenzene	0.90	0 .20	EPA 8260	10-3-11	10-3-11	
sec-Butylbenzene	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	
o-Isopropyitoluene	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	
n-Butylbenzene	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	
I,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
-lexachlorobutadiene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Naphthalene	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	68-120				
Toluene-d8	86	73-120				
. 5.25110 00		70 120				

65-120

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Laboratory Reference: 1109-207

Project: 6552

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Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-102					
Laboratory ID:	09-207-02					
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	
Acetone	ND	5.0	EPA 8260	10-3-11	10-3-11	
lodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Carbon Disulfide	ND	0.20	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	
Methyl t-Butyl Ether	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	
Vinyl Acetate	ND	2.0	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	
2-Butanone	ND	5.0	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 82 60	10-3-11	10-3-11	
Benzene	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	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	10-3-11	10-3-11	
Toluene	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Laboratory Reference: 1109-207

Project: 6552

VOLATILES by EPA 8260B page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-102					
_aboratory ID:	09-207-02				·	
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	
2-Hexanone	ND	2.0	EPA 8260	10-3-11	10-3-11	
Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
,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	
Ethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
n,p-Xylene	ND	0.40	EPA 8260	10-3-11	10-3-11	
o-Xylene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Styrene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
sopropylbenzene	0.22	0.20	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	
,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
n-Propylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
I-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
ert-Butylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
sec-Butylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
,3-Dichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
o-Isopropyltoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
,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	
n-Butylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane		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	
Naphthalene	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11		
	Percent Recovery		LFA 0200	10-5-11	10-3-11	
Surrogate. Dibromofluoromethane	-	Control Limits				
	86 85	68-120 73-130				
Toluene-d8	<i>85</i>	73-120				
4-Bromofluorobenzene	81	65-120				

Date of Report: October 7, 2011 Samples Submitted: September 29, 2011 Laboratory Reference: 1109-207

Project: 6552

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Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-103					
Laboratory ID:	09-207-03					
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	
Acetone	ND	5.0	EPA 8260	10-3-11	10-3-11	•
lodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Carbon Disulfide	ND	0.20	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	
Methyl t-Butyl Ether	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	
Vinyl Acetate	ND	2.0	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	
2-Butanone	ND	5.0	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	
B e nzene	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	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	10-3-11	10-3-11	
Toluene	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Laboratory Reference: 1109-207 Project: 6552

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Client ID:					Date	Date	
Laboratory ID:	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane ND 0.20 EPA 8260 10-3-11 10-3-111 Tetrachloroethene ND 0.20 EPA 8260 10-3-11 10-3-111 1,3-Dichloropropane ND 0.20 EPA 8260 10-3-11 10-3-11 2-Hexanone ND 0.20 EPA 8260 10-3-11 10-3-11 Dibromochloromethane ND 0.20 EPA 8260 10-3-11 10-3-11 L2-Dibromoethane ND 0.20 EPA 8260 10-3-11 10-3-11 Chlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Chlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Chlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Thylene ND 0.40 EPA 8260 10-3-11 10-3-11 Styrene ND 0.20 EPA 8260 10-3-11 10-3-11 Styrene ND 0.20 EPA 8260 10-3-11 10-3-11 <t< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th></t<>		-					
Tetrachloroethene ND 0.20 EPA 8260 10.3-11 10.3-11 1.3-Dichloropropane ND 0.20 EPA 8260 10.3-11 10.3-1							
1,3-Dichloropropane ND 0.20 EPA 8260 10.3-11 10.3-11 2-Hexanone ND 2.0 EPA 8260 10.3-11 10.3-1				EPA 8260	10-3-11	10-3-11	
2-Hexanone ND 2.0 EPA 8260 10-3-11 10-3-11 Dibromochloromethane ND 0.20 EPA 8260 10-3-11 10-3-11 10-3-11 12-Dibromochloromethane ND 0.20 EPA 8260 10-3-11 10-3-11 10-3-11 12-Dibromochloromethane ND 0.20 EPA 8260 10-3-11 10-3-11 10-3-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 10-3-11 10-3-11 10-3-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 10-3-11 10-3-				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 Ethylbenzene ND 0.20 EPA 8260 10.3-11 10.3-11 Ethylbenzene ND 0.40 EPA 8260 10.3-11 10.3-11 Ethylbenzene ND 0.40 EPA 8260 10.3-11 10.3-11 Styrene ND 0.20 EPA 8260 10.3-11 10.3-11 Styrene ND 0.20 EPA 8260 10.3-11 10.3-11 Bromobenzene ND 0.20 EPA 8260 10.3-11 10.3-11 Bromobenzene ND 0.20 EPA 8260 10.3-11 10.3-11 1,1,2,3-Trichloropropane 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	
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 Li,1,2-Tetrachioroethane ND 0.20 EPA 8260 10.3-11 10.3-11 Ethylbenzene ND 0.20 EPA 8260 10.3-11 10.3-11 mpXylene ND 0.40 EPA 8260 10.3-11 10.3-11 mpXylene ND 0.40 EPA 8260 10.3-11 10.3-11 mpXylene ND 0.20 EPA 8260 10.3-11 10.3-11 mpXylene ND 0.20 EPA 8260 10.3-11 10.3-11 bryene ND 0.20 EPA 8260 10.3-11 10.3-11 Bromoform ND 0.20 EPA 8260 10.3-11 10.3-11 Isopropylbenzene ND 0.20 EPA 8260 10.3-11 10.3-11 Isopropylbenzene ND 0.20 EPA 8260 10.3-11 10.3-11 1,2,2-Tetr	2-Hexanone	ND	2.0	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 Ethylbenzene ND 0.20 EPA 8260 10.3-11 10.3-11 mp-Xylene ND 0.40 EPA 8260 10.3-11 10.3-11 o-Xylene ND 0.20 EPA 8260 10.3-11 10.3-11 Styrene ND 0.20 EPA 8260 10.3-11 10.3-11 Styrene 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 Bromobenzene ND 0.20 EPA 8260 10.3-11 10.3-11 1,1,2,3-Tidribororopane ND 0.20 EPA 8260 10.3-11 10.3-11 1,2,3-Tidriboropane ND 0.20 EPA 8260 10.3-11 10.3-11 2-Chioro	Dibromochloromethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1,2-Tetrachloroethane	1,2-Dibromoethane	ND	0.20	EPA 8260	10-3-11	10-3-11	
Ethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 m,p-Xylene ND 0.40 EPA 8260 10-3-11 10-3-11 o-Xylene ND 0.20 EPA 8260 10-3-11 10-3-11 Styrene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromoform ND 1.0 EPA 8260 10-3-11 10-3-11 Isopropylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,1,2,2-Tichloropropane ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,3-Tichloropropane 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 4-Ch	Chlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
m.p.Xylene ND 0.40 EPA 8260 10-3-11 10-3-11 c-Xylene ND 0.20 EPA 8260 10-3-11 10-3-11 Styrene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromoform ND 1.0 EPA 8260 10-3-11 10-3-11 Isopropylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromobenzene ND 0.20 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 1-P-Stypibenzene ND 0.20 EPA 8260 10-3-11 10-3-11 2-Chlorotoluene 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	
o-Xylene ND 0.20 EPA 8260 10-3-11 10-3-11 Styrene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromoform ND 1.0 EPA 8260 10-3-11 10-3-11 Isopropylbenzene ND 0.20 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 1,2,3-Trimblybenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 1	Ethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Styrene ND 0.20 EPA 8260 10-3-11 10-3-11 Bromoform ND 1.0 EPA 8260 10-3-11 10-3-11 Isopropylbenzene ND 0.20 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 n-Propylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 e-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 4-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 1,3-5-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 <td>m,p-Xylene</td> <td>ND</td> <td>0.40</td> <td>EPA 8260</td> <td>10-3-11</td> <td>10-3-11</td> <td></td>	m,p-Xylene	ND	0.40	EPA 8260	10-3-11	10-3-11	
Bromoform ND 1.0 EPA 8260 10-3-11 10-3-11 Isopropylbenzene ND 0.20 EPA 8260 10-3-11 Isopropylbenzene ND 0.20 EPA 8260 10-3-11 Isopropylbenzene ND 0.20 EPA 8260 Isopropylbenzene N	o-Xylene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Isopropylbenzene	Styrene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromobenzene ND	Bromoform	ND	1.0	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 n-Propylbenzene 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 4-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 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2-4-Trimethylbenzene 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 1,3-Dichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,4-Dichlorobenzene ND 0.20	Isopropylbenzene	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 n-Propylbenzene 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 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 10·3·11 10·3·11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10·3·11 10·3·11 1,2-Floirorobenzene 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	Bromobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
n-Propylbenzene 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 4-Chlorotoluene ND 0.20 EPA 8260 10-3-11 10-3-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1tert-Butylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,4-Trimethylbenzene 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 0.20 EPA 8260 10-3	1,1,2,2-Tetrachloroethane	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 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 tert-Butylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 sec-Butylbenzene 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 1,3-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 1,4-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 0.20 EPA 8260 10-	1,2,3-Trichloropropane	ND	0.20	EPA 8260	10-3-11	10-3-11	
4-Chlorotoluene ND 0.20 EPA 8260 10-3-11 10-3-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 tert-Butylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 sec-Butylbenzene 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 1,3-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 1,4-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 0.20 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	n-Propylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,3,5-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 tert-Butylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 sec-Butylbenzene 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 p-Isopropyltoluene ND 0.20 EPA 8260 10-3-11 10-3-11 p-Isopropyltoluene 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 n-Butylbenzene 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 Naphthalene ND 0.20 EP	2-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
tert-Butylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 sec-Butylbenzene 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 p-Isopropyltoluene 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-Dichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 n-Butylbenzene 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 Naphthalene ND 0.20 EPA 8260 10-3-11 <td>4-Chlorotoluene</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>10-3-11</td> <td>10-3-11</td> <td></td>	4-Chlorotoluene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,4-Trimethylbenzene ND 0.20 EPA 8260 10-3-11 10-3-11 sec-Butylbenzene 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 p-Isopropyltoluene 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 n-Butylbenzene 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 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 <	1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
sec-Butylbenzene 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 p-Isopropyltoluene 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 n-Butylbenzene 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 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 2urogate: Percent Recovery Control Limits Dibromofluoromethane<	tert-Butylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
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p-Isopropyltoluene 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	sec-Butylbenzene	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 n-Butylbenzene 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 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	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 n-Butylbenzene 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 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	p-Isopropyltoluene	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 n-Butylbenzene 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 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120		ND	0.20		10-3-11		
n-Butylbenzene 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 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	1,2-Dichlorobenzene	ND	0.20	EPA 8260		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 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120		ND		EPA 8260	10-3-11	10-3-11	
Hexachlorobutadiene ND 0.20 EPA 8260 10-3-11 10-3-11 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	•	ND	1.0	EPA 8260		10-3-11	
Hexachlorobutadiene ND 0.20 EPA 8260 10-3-11 10-3-11 Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Naphthalene ND 1.0 EPA 8260 10-3-11 10-3-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	Hexachlorobutadiene	ND					
1,2,3-Trichlorobenzene ND 0.20 EPA 8260 10-3-11 10-3-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	Naphthalene	ND					
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120	·						
Dibromofluoromethane 84 68-120 Toluene-d8 86 73-120							
Toluene-d8 86 73-120		•					
	4-Bromofluorobenzene	81	65-120				

Laboratory Reference: 1109-207

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-201					
Laboratory ID:	09-207-04					
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	
Acetone	ND	5.0	EPA 8260	10-3-11	10-3-11	
lodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Carbon Disulfide	ND	0.20	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	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,1-Dichloroethane	0.26	0.20	EPA 8260	10-3-11	10-3-11	
Vinyl Acetate	ND	2.0	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	
2-Butanone	ND	5.0	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	
Benzene	0.21	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	
Methyl Isobutyl Ketone	NĐ	2.0	EPA 8260	10-3-11	10-3-11	
Toluene	ND	1.0	EPA 8260	10-3-11	10-3-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	10-3-11	10-3-11	

Laboratory Reference: 1109-207 Project: 6552

4-Bromofluorobenzene

VOLATILES by EPA 8260B

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				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-201					
Laboratory ID:	09-207-04		TT0			
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	
2-Hexanone	ND	2.0	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	
Ethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
m,p-Xylene	ND	0.40	EPA 8260	10-3-11	10-3-11	
o-Xylene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Styrene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Isopropylbenzene	ND	0.20	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	
n-Propylbenzene	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	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
tert-Butylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
sec-Butylbenzene	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	
p-Isopropyltoluene	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	
n-Butylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
1,2-Dibromo-3-chloropropane	e 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	
Naphthalene	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	84	<i>68-120</i>				
Toluene-d8	85	73-120				

65-120

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Laboratory Reference: 1109-207 Project: 6552

VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Water Units: ug/L

-				Date	Date	
Analyte	Result	PQL	Method	Prepared	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	
Acetone	ND	5.0	EPA 8260	10-3-11	10-3-11	
lodomethane	ND	1.0	EPA 8260	10-3-11	10-3-11	
Carbon Disulfide	ND	0.20	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	
Methyl t-Butyl Ether	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	
Vinyl Acetate	ND	2.0	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	
2-Butanone	ND	5.0	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	
Benzene	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	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	10-3-11	10-3-11	
Toluene	ND	1.0	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 7, 2011

Samples Submitted: September 29, 2011

Laboratory Reference: 1109-207 Project: 6552

VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL

page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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	
2-Hexanone	ND	2.0	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	
Ethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
m,p-Xylene	ND	0.40	EPA 8260	10-3-11	10-3-11	
o-Xylene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Styrene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Bromoform	ND	1.0	EPA 8260	10-3-11	10-3-11	
Isopropylbenzene	ND	0.20	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	
n-Propylbenzene	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	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
tert-Butylbenzene	ND	0.20	EPA 82 6 0	10-3-11	10-3-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
sec-Butylbenzene	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	
p-Isopropyltoluene	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	
n-Butylbenzene	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	
Naphthalene	ND	1.0	EPA 8260	10-3-11	10-3-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	10-3-11	10-3-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	68-120				
Toluene-d8	85	73-120				
4-Bromofluorobenzene	81	65-120				

Laboratory Reference: 1109-207

Project: 6552

VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

					Per	cent	Recovery		RPD	
Analyte	Re	suit	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS					,					
Laboratory ID:	SB10	03W1								
	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	
Surrogate:										
Dibromofluoromethane					81	79	68-120			
Toluene-d8					84	79	73-120			
4-Bromofluorobenzene					78	74	65-120			



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-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.
- 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

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Chuck Lie		<u> </u>	- Cl					ę,	ивтех			80B	d Volatil	Semivolatiles 8270D/SIM (with low-level PAHs)	A) MIS/C		rine Pes	Organophosphorus Pesiicides 8270D/SIM	Chlorinated Acid Herbicides 8151A	fotal RCRA / MTCA Metals (circle one)	s	HEM (oil and grease) 1664			-				
Nicolas R. Hoffman			(other) Date Time				Number of Containers	NWTPH-HCID	WYTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	ogenate	nivolatile h low-lev	4s 8270	PCBs 8082	anochlo	anophos	orinated	al RCRA	TCLP Metals	M (oil an						% Moisture	
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Data Package: Level III 🗍 Level IV 🗍 Electronic Data Deliverables (EDDs)

Chromatograms with final report

Reviewed/Date

Received

Reviewed/Date