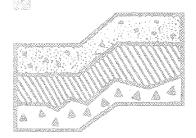
Phase II Environmental Site Assessment

5221 Ballard Avenue NW Seattle, Washington

Project No. T-6552



Terra Associates, Inc.

Prepared for:

Halco Properties, LLC Seattle, Washington

July 29, 2011



TERRA ASSOCIATES, Inc.

Consultants in Geotechnical Engineering, Geology and Environmental Earth Sciences

> July 29, 2011 Project No. T-6552

HALCO PROPERTIES, LLC Janice A. Cowman, Manager 7428 Heather Avenue SW Snoqualmie, Washington 98065

Subject:

Phase II Environmental Site Assessment

5221 Ballard Avenue NW Seattle, Washington

Dear Ms. Cowman:

As requested, we have completed our Phase II Environmental Site Assessment (ESA) of the subject site. The purpose of our work was to obtain current environmental samples from the UST cluster at 5221 Ballard Avenue North and evaluate the process for separating 5221 Ballard Avenue NW from the southern parcels of the former C&C Paint company complex.

The results of our study confirm previous testing. There are soils that are elevated with gasoline range hydrocarbons relative to both the look up MTCA Method A cleanup values and site specific cleanup values.

The attached report discusses our site observations, the results of analytical testing, and our 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 K. Lie, L.H.G. Project Manager

cc:

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

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Phase II Environmental Assessment 5221 Ballard Avenue NW Seattle, Washington

1.0 EXECUTIVE SUMMARY

The following report presents the results of a Phase II Environmental Site Assessment (ESA) we performed at the subject site. We understand that you are in the process of marketing the property. The property is part of a larger complex that was formerly known as C&C Paints. This report includes groundwater information and a summary of past UST locations for three adjacent parcels that were part of the former C&C Paints complex. There have been a series of reports prepared that address UST closures, as well as soil and groundwater sampling. In most cases, the reports refer to the site as 5221 Ballard Avenue NW (5221). Most of the USTs and all of the prior groundwater testing were done on the lower parcels that front on Shilshole Avenue NW (Shilshole Parcels).

There were three USTs for the storage of paint thinner at 5221. Permits show that the USTs at 5221 were installed in 1962 and 1964. All three USTs were closed in place during the 1990s. The results of our study show that there are impacts to soils adjacent to the former paint solvent USTs at 5221. The measured levels of petroleum hydrocarbons exceed current cleanup levels. Expanded testing was done to establish site specific cleanup levels using standard Washington State Department of Ecology methodology. The results of the analysis indicate that the soils at the center UST are above the adjusted cleanup levels. The results of groundwater testing show that the current levels at 5221 are below the MTCA cleanup levels. One monitoring well on the Shilshole parcels had a level of total petroleum hydrocarbons above the cleanup level.

The results of our study are discussed in more detail later in this report.

2.0 SCOPE OF WORK

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

- Review of previous reports prepared by others. The list of reports is presented in Appendix A.
- Measuring static water level in the existing wellfield on and adjacent to the Shilshole Parcels.
- Advancing four soil test borings on and adjacent to the site.
- Construction of monitoring wells in each of the borings.
- Hand excavating 3 test pits in the basement at 5221.
- Construction of dedicated vapor sampling ports in each of the test pits.
- Sampling soil from each of the test borings and test pits.
- Field screening of soil samples from the test borings.

- Sampling groundwater from three of the existing Shilshole Parcels wellfield.
- Sampling groundwater from each of the new monitoring wells constructed for this study.
- Vapor sampling from two of the test pits.
- Subcontracting analytical testing of selected vapor, soil, and 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 Figures 3 and 4. In general, the 5221 site consists of a two-story building with a basement level. There is a narrow parking lot along the northwest elevation of the building. The overall former C&C Paints site includes three additional parcels located along the southeast side of Shilshole Avenue NW immediately southwest of the site. The Shilshole parcels are all developed with one-story warehouse buildings. The southeastern Shilshole parcel includes a parking/open storage area.

The former UST locations on the Shilshole parcels are shown on Figure 4. The locations of the three paint thinner USTs on the 5221 site are shown on Figure 4.

The elevation of the parking lot at 5221 is approximately Elev. 36. The floor elevation in the basement at 5221 is approximately Elev. 28. The basement elevation corresponds with the general ground elevation along Shilshole Avenue NW.

3.2 Subsurface

On May 6, 2011 and June 13, 2011, we observed 4 explorations at the site. The purpose of our explorations was to obtain environmental samples for site characterization of the conditions at 5221. The borings are labeled as MW-101, MW-102, MW-103, and MW-104. Locations of the explorations are shown on Figure 4.

In general, native subsurface conditions beneath the site consist of silty sands that are dense till soils. Overlying the dense till soil are fills. The fills extend to depths of 9 to 11 feet in the parking lot. These fills represent soils that were reworked incidental to the construction of the existing building and adjacent building as well as UST backfill soils. All soils encountered in the borings are granular soils.

Logs of the individual explorations conducted for this study are presented in Appendix B of this report.

3.3 Groundwater

Groundwater seepage was encountered in the test borings. The depth to groundwater was about six to ten feet during exploration. This groundwater represents a near-surface perched groundwater condition.

To allow a detailed determination of groundwater flow beneath the site, all of the existing monitoring wells were surveyed by Jim Hart and Associates. The survey is presented in Appendix C. Measurements show that groundwater gradients are towards the south-southwest. The groundwater levels measured in June of 2011 are schematically shown on Figure 5. Table 1 summarizes the static water levels measured during 2011. The groundwater flow gradient is consistent with prior investigations by others.

Table 1
Groundwater Measurements

Monitoring	Surface	MP	4/2	9/11	5/6	/11	5/10	/2011	6/29/2	2011
Well	Elev	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.
MW-1	26.44	26.11	4.6	21.51					4.78	21.33
MW-2	25.98	25.98							5.75	20.23
MW-3	26.05	26.05								
MW-4	26.21	25.90	4.89	21.01	· ·				5.26	20.64
MW-5	26.32	26.32	4.92	21.40						
MW-6	26.8	26.34	4.63	21.71					4.71	21.63
MW-7	26.89	26.60	3.38	23.22					3.09	23.51
MW-8	27.97	27.51	3.52	23.99					3.72	23.79
MW-9	30.24	29.99	4.77	25.22					4.99	25.00
MW-10	26.48	26.16	5.8	20.36					6	20.16
MW-101	36.77	36.37			10.3	26.07	10.45	25.92	10.78	25.59
MW-102	36.35	35.93	·		10.25	25.68	9.81	26.12	10.08	25.85
MW-103	36.13	35.79			10.25	25.54	9.38	26.41	9.74	26.05
MW-104	28.23	27.98							2.76	25.22

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.

3.4 Historic Site Use

As documented in the previous reports by others, the upper floor at 5221 was used as office space. The street level and basement levels were used as warehouse space. Paint production occurred on the parcels that front on Shilshole Avenue NW. We observed that the pipes from the USTs at 5221 led towards the south into the existing building immediately south of the 5221 parcel.

The northern USTs were installed in 1962 and were 5,000- and 6,000-gallon capacity USTs. The southern UST was installed in 1964 and had a capacity of 7,000 gallons.

4.0 FIELD SAMPLING

In the parking lot at 5221, the borings were placed as close to the UST locations as was possible. Sampling was performed to assist in determining the vertical limits of impacted soils. Sampling in Borings B-1 through B-3 was done using standard penetration test samplers. Sampling in Boring B-4 was done by taking grab samples from the auger. Sampling in the hand excavated test pits was done by taking grab samples from the post hole digger used to excavate the test pits.

Standard sampling procedures were used in the field. The procedures are discussed in Appendix B and E. Appendix B contains a summary of past and current groundwater parameter measurements.

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 Appendix A. Selected soil, groundwater, and vapor samples were analyzed for the following analytes:

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

The test results are summarized in the following sections of this report.

The laboratory reports for testing of soils and groundwater done for this study are attached as Appendix D. The results of testing of vapor samples are attached in Appendix E.

5.2 Soils

The results of analytical testing for total petroleum hydrocarbons (TPH) on soil samples from the borings are summarized in Table 1. The locations of the explorations are shown on Figure 4.

Table 2
Petroleum Hydrocarbons
Soil

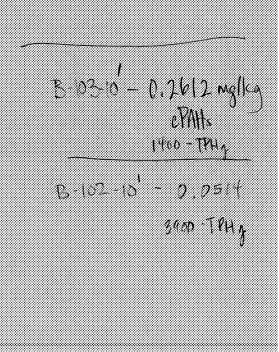
Well Number	Date	Depth (feet)	TPH Gasoline Range
B-101	5/6/11	9.0	82
(MW-101)	5/6/11	14	4.8U

Table 2 Petroleum Hydrocarbons Soil

Well	Date	Depth (feet)	TPH Gasoline Range
B-102	5/6/11	10	3,900
(MW-102)	5/6/11	15	5.7U
B-103	5/6/11	10	1,400
(MW-103)		15	5.1U
B-104	6/13/11	2.5	15
(MW-104)	0/13/11	5	10
VP-1	6/13/11	1.5	5.8U
VP-2	6/13/11	1.5	140
	0/13/11	3.5	9.7
VP-3	6/13/11	1.5	5.5U
N	ATCA Method A		100

Table 3 Volatile Organic Compounds Soil

Well Number	Depth	Benzene	Ethyl Benzene	Toluene
B-101	9	0.0012U	0.0012U	0.0061
(MW-101)	14	0.00083U	0.00083U	0.0042
B-102	10	0.058U	0.058U	0.29L
(MW-102)	15	0.00095U	0.00095U	0.0047
B-103	10	0.056U	0.056U	0.28U
(MW-103)	15	0.00092U	0.00092U	0.0046
B-104 (MW-104)	2.5	0.0013U	0.0013U	0.0065
MTCA		0.03	6.0	7.0



B-03-10 - 0.7612 mylleg ePAHs 1400-TPHg B-152-10 - 2.2514 3400-TPHg

Table 2
Petroleum Hydrocarbons
Soil

Well	Date	Depth (feet)	TPH Gasoline Range
B-102	5/6/11	10	3,900
(MW-102)	3/0/11	15	5.7U
B-103	5/6/11	10	1,400
(MW-103)		15	5.1U
B-104	6/13/11	2.5	15
(MW-104)	0/13/11	5	10
VP-1	6/13/11	1.5	5.8U
VP-2	6/12/11	1.5	140
	6/13/11	3.5	9.7
VP-3	6/13/11	1.5	5.5U
	MTCA Method A		100

Table 3 Volatile Organic Compounds Soil

Well Number	Depth	Benzene	Ethyl Benzene	Toluene	m,p Xylene	0-Xylene
B-101	9	0.0012U	0.0012U	0.006U	0.0024U	0.0012U
(MW-101)	14	0.00083U	0.00083U	0.0042U	0.0017U	0.00083U
B-102	10	0.058U	0.058U	0.29U	0.12U	0.058U
(MW-102)	15	0.00095U	0.00095U	0.0047U	0.0019U	0.00095U
B-103	10	0.056U	0.056U	0.28U	0.11U	0.056U
(MW-103)	15	0.00092U	0.00092U	0.0046U	0.0018U	0.00092U
B-104 (MW-104)	2.5	0.0013U	0.0013U	0.0065U	0.0026U	0.0013U
MTCA		0.03	6.0	7.0	9	0.0

Well Number	Depth	Acetone	isopropyl benzene	n-Propylbenzene	Sec-Butyl benzene
B-101	9	0.022	0.0035	0.0049	0.0012U
(MW-101)	14	0.013	0.00083U	0.00083U	0.00083U
B-102	10	0.29U	0.058U	0.058U	0.058U
(MW-102)	15	0.0084	0.00095U	0.00095U	0.00095U
B-103	10	0.28U	0.056U	0.056U	0.056U
(MW-103)	15	0.0082	0.0092U	0.0092U	0.0092U
B-104 (MW-104)	2.5	0.037	0.0013U	0.0013U	0.0013U
VP-2	1.5	0.0056	0.0034	0.0040	0.0048
MTCA		72,000	np	8,000	np

Notes for Tables 1 and 2:

All levels are reported in parts per million (ppm).

Modifier of U indicates that the compound was not present at the numerical PQL value.

PQL varies with the moisture content of the sample.

PQL in bold for benzene exceeds Method A cleanup value, PQL elevated due to elevated.

TPH in the individual samples.

5.3 Groundwater

The following tables are cumulative and show the results reported by prior testing by others. All testing prior to 2011 was done by other firms.

Table 3
Total Petroleum Hydrocarbons
Groundwater

Well Number	Well Number Date TPH Gas Range		TPH Diesel Range	TPH Oil Range	
	11/27/95	24,000	NT	NT	
	6/20/96	210	NT	NT	
MW-1	9/11/96	190	NT	NT	
	12/10/96	190	NT	NT	
	4/3/97	190	NT	NT	
	1/31/98	310	NT	NT	

Well Number	Date	TPH Gas Range	TPH Diesel Range	TPH Oil Range
	10/10/00	410	1.1	0.95
	9/25/02	34	0.91	0.5U
	11/14/03	18	11	
	6/21/06	NR	0.5U	0.5U
	12/15/06	ND	ND	ND
	1/18/07	ND	ND	ND
	6/12/07	5.8	ND	ND
	10/22/07	2.4 2.7	NR	ND
	3/19/08		ND	ND
	6/20/08	0.5U	NT	NT
	12/30/08	312	NT	NT
	6/2009	8.7	NT	NT
	10/2009	11.3	NT	NT
	2/2010	10.0	NT	NT
	7/27/10	1.2	0.5U	0.5U
	4/29/11	1.1	0.3U	0.41U
MW-2	11/27/95	ND	NT	NT
	6/20/96	1.1	NT	NT
	9/11/96	0.9	NT	NT
	12/10/96	0.9	NT	NT
	4/3/97	0.1U	NT	NT
	1/31/98	ND	NT	NT
	10/10/00	0.13	NT	NT
	9/25/02	0.5U	NT	NT
	11/14/03	0.25U	NT	NT
	6/21/06	0.25U	0.5U	X
	12/15/06	ND	ND	ND
	1/18/07	ND	ND	NR
	6/12/07	ND	ND	NR
	10/22/07	ND	NR	NR
	3/19/08	ND	ND	ND
	6/20/08	0.05U	NT	NT
	12/30/08	ND	NT	NT
	7/27/10	0.2U	0.47	1.2

Well Number	Date	TPH Gas Range	TPH Diesel Range	TPH Oil Range
MW-3	11/27/95	ND	NT	NT
	1/31/98	ND	NT	NT
	10/10/00	ND	NT	NT
	9/25/02	0.05U	NT	NT
	11/14/03	0.05U	NT	NT
	6/26/06	0.25U	0.5U	0.5U
	12/15/06	ND	0.65	ND
	1/18/07	ND	ND	NR
-	6/12/07	ND	ND	ND
	10/22/07	ND	ND	ND
	3/19/08	ND	ND	ND
	6/20/08	0.052	NT [*]	NT
	12/30/08	ND	NT	NT
	7/27/10	0.2U	0.5U	0.5U
MW-4	11/27/95	78	NT	NT
	1/31/98	14	NT	NT
	10/10/00	0.68	NT	NT
	9/25/02	0.11	NT	NT
	11/14/03	0.05U	NT	NT
	6/21/06	0.25U	0.5U	0.5U
	12/15/06	ND	ND	. ND
,	1/18/07	ND	ND	· ND
	6/12/07	0.11	ND	ND
	10/22/07	ND	NR	ND
	3/19/08	ND	ND	ND
	6/20/08	1.57	NT	NT
	12/30/08	ND	NT	NT
<u> </u>	7/27/10	0.2U	0.5U	0.5U
MW-5	11/27/95	28	NT	NT
	1/31/98	1.1	NT	NT
	10/10/00	0.2	NT	NT
	9/25/02	0.25U	NT	NT
l	11/14/03	0.05U	NT	NT
L	12/15/06	ND	ND	ND

Well Number	Date	TPH Gas Range	TPH Diesel Range	TPH Oil Range
	1/18/07	ND	ND	ND
	6/12/07	ND	ND	ND
	10/22/07	ND	NR	NR
	3/19/08	ND	ND	ND
	6/20/08	0.05U	NT	NT
	12/30/08	ND	NT	NT
	7/27/10	0.2U	0.5U	0.5U
MW-6	1/29/96	0.68	NT	NT
	10/10/00	0.84	NT	NT
	9/25/02	0.25U	NT	NT
	11/14/03	0.05U	NT	NT
	6/26/06	0.25U	0.5U	0.5U
	12/15/06	ND	ND	ND
	1/18/07	0.29	ND	ND
	6/12/07	0.32	NR	ND
	10/22/07	ND	NR	NR
	3/19/08	ND	ND	ND
	6/20/08	0.147	NT	NT
	12/30/08	0.12	NT	NT
	7/27/10	0.11	0.5U	0.5U
	4/28/11	0.16	0.26U	0.41U
MW-7	1/29/96	61	NT	NT
	6/20/96	16	NT	NT
	9/11/96	9.0	NT	NT
	12/10/96	15	NT	NT
	4/3/97	17	NT	NT
	1/31/98	31	NT	NT
	10/10/00	4.3	NT	NT
	9/25/02	0.89	NT	NT
	11/14/03	0.72	NT	NT
	6/21/06	0.25U	0.5U	0.5U
	1/18/07	0.077	ND	ND
	6/12/07	ND	ND	ND
	10/22/07	2.4	NR	ND

Well Number	Date	TPH Gas Range	TPH Diesel Range	TPH Oil Range
	3/19/08	0.3	ND	ND
	6/20/08	0.13	NT	NT
:	12/30/08	ND	NT	NT
	7/27/10	0.2U	0.5U	0.5U
	4/28/11	0.1U	0.26U	0.41U
MW-8	1/29/96	ND	NT	NT
	6/20/96	0.1U	NT	NT
	9/11/96	0.1U	NT	NT
	12/10/96	0.1U	NT	NT
	4/3/97	0.1U	NT	NT
	1/31/98	ND	NT	NT
	10/10/00	0.1U	NT	NT
	9/25/02	0.05U	NT	NT
	11/14/03	0.05U	NT	NT
,	6/21/06	0.25U	0.5U	0.5U
	12/15/06	ND	ND	ND
	1/18/07	ND	ND	ND
	6/12/07	ND	ND	ND
	10/22/07	ND	ND	ND
	3/19/08	ND	ND	ND
	6/20/08	0.05U	NT	NT
	12/30/08	ND	NT	NT
	7/27/10	0.2U	0.5U	0.5U
MW-9	1/29/96	ND	NT	NT
	6/20/96	0.1U	NT	NT
	9/11/96	0.1U	NT	NT
	12/10/96	0.1U	NT	NT
	4/3/97	0.1U	NT	NT
	1/31/98	ND	NT	NT
	10/10/00	0.1U	NT	NT
	9/25/02	0.05U	NT	NT
	11/14/03	0.05U	NT	NT
	1/18/07	ND	ND	ND
	6/12/07	ND	ND	ND

Well Number	Date	TPH Gas Range	TPH Diesel Range	TPH Oil Range
	10/22/07	ND	ND	ND
	3/19/08	ND	ND	ND
	6/20/08	0.05	NT	NT
	12/30/08	ND	NT	NT
	7/27/10	0. 2 U	0.5U	0.5U_
MW-10	1/29/96	0.93	NT	NT
	6/20/96	1.1	NT	NT
	9/11/96	0.58	NT	NT
	12/10/96	0.1U	NT	NT
	4/3/97	0.1U	NT	NT
	1/31/98	ND	NT	NT
	10/10/00	ND	NT	NT
	9/25/02	0.05U	NT	NT
-	11/14/03	0.05U	NT	NT
	12/15/06	ND	ND	ND
	6/12/07	ND	ND	ND
	10/22/07	ND	ND	ND
	3/19/08	ND	ND	ND
	6/20/08	0.05U	NT	NT
	12/30/08	ND	NT	NT
	7/27/10	0.2U	0.5U	0.5U
MW- 101	5/10/11	0.16	0.26U	0.41U
MW- 102	5/10/11	0.5U	0.27U	0.41U
MW- 103	5/10/11	0.94	0.7U	0.42U
MW- 104	6/29/11	0.1U	0.41U	0.26U
	TCA *	0.8 (1.0)	0.5	0.5

Notes: Data prior to 2011 was collected by others.

All units are ppm.

U modifier indicates that the compound was not present at the PQL.

NT indicates that the sample was not analyzed for that analyte.

ND indicates that the analyte was not detected, no detection value reported.

NR indicates that the sample result is not reported.

Table 4
Volatile Organic Compounds
Groundwater

Well Number	Date	Benzene	Ethyl benzene	Toluene	m,p-Xylene	o-Xylene
	11/27/95	930	550	41,000	855,	000
*	6/20/96	8.5	14,000	300	14,	000
	9/11/96	ND	13,000	ND	58,	000
	12/10/96	7.0	14,000	270	64,	000
	4/3/97	7.6	13,000	260	51,000	NT
	1/31/98	ND	15,000	230	70,	000
	10/10/00	1.0U	16,000	120	70,	100
	9/23/02	10U	11,000	26	19,000	3,900
MW-1	11/14/03	5.0U	1,700	80	5,5	i00
	6/12/07	ND	240	1		30
	12/30/08	ND	2,900	29	11,	900
	3/19/08	ND	150	ND	44	40
	6/09	10U	800	10U	2,5	500
	10/09	10 U	825	10U	2,5	'00
	2/10	10U	700	10U	1,9	100
	7/27/10	1.0U	40	1.0U	13	30
	4/29/11	0.56	27	2.0U	47	2.6
	11/27/95	ND	6.6	ND		7
	9/11/96	ND	79	23	3'	79
	12/10/96	ND	1.1	ND		.3
	4/3/97	ND	ND	3.2		D .
MW-2	1/31/98	ND	ND	ND	 	D
	10/10/00	1.0U	1.0U	36	1.0U	NT
	9/23/02	5.0U	5.0U	5.0U		0U
	11/14/03	5.0U	5.0U	5.0U	 	5U
	12/30/08	ND	ND	ND	 	D
	11/27/95	ND	ND	ND	<u> </u>	D
	1/31/98	ND	ND	ND	 	D
MW-3	10/10/00	1.0U	1.0U	1.0U	1.6	NT
	9/23/02	1.0U	1.0U	1.0U	 	0 U
	11/14/03	1.0U	1.0U	1.0U	3.	0 U

Well Number	Date	Benzene	Ethyl benzene	Toluene	m,p-Xylene	o-Xylene
	11/27/95	4.0	4,600	40	20,	800
	1/31/98	ND	1300	3.0	3,0	75
MWA	10/10/00	1.0U	37	1.0U	30	NT
MW-4	9/23/02	1.0U	3.0	1.0U	1	6
	11/14/03	1.0U	1.0U	1.0U	3.0)U
	6/12/07	ND	1.0	ND		5
	11/27/95	4.0	1,500	11	7,4	100
	1/31/98	ND	38	5.1	2	11
MW-5	10/10/00	1.1	1	1.0U	4.9	NT
	9/23/02	5.0U	5.0U	5.0U	7	.0
	11/14/03	1.0U	1.0U	1.0U	3.0)U
	1/30/96	3.5	2.5	ND	1	12
	1/31/98	3.7	ND	ND	1	.7
	10/10/00	1.9	1.0U	1.0U	1.7	NT
	9/23/02	5.0U	5.0U	5.0U	8	.0
MW-6	11/14/03	1.0U	1.0U	1.0U	3.0	0U
	1/18/07	ND	16	ND	6	9
	6/12/07	ND	ND	ND	N	D
	7/27/10	1.0U	1.0U	1.0U	3.0	0 U
	4/29/11	0.2U	0.2U	1.0U	0.4U	0.2U
·	1/30/96	2.0	3,500	340	3,2	200
	1/31/98	1.2	1,600	1.6	4:	86
	10/10/00	1.2	190	1.0U	360	NT
-	9/23/02	5.0U	140	5.0U	1:	30
MW-7	11/14/03	5.0U	130	5.0U	2	10
	1/18/07	ND	4.0	ND	6	9
	6/12/07	ND	ND	ND	N	D
	3/19/08	ND	ND	ND	N	ID .
	4/29/11	0.2U	0.32	1.0U	0.4U	0.2U
	1/30/96	ND	ND	ND	1	.0
	9/11/96	ND	ND	ND	N	D
	6/12/07	ND	ND	ND	N	ID .
MW-8	1/31/98	ND	ND	ND	N	ID .
	10/10/00	1.0U	1.0U	1.0U	1.0U	NT
	9/23/02	1.0U	1.0U	1.0U	3	.0
	11/14/03	1.0U	1.0U	1.0U	3.	0U

Well Number	Date	Benzene	Ethyl benzene	Toluene	m,p-Xylene	o-Xylene
MW-9	1/30/96	ND	ND	ND	1.	0
	9/11/96	ND	ND	ND	N	D
	4/3/97	ND	ND	ND	N	D
	1/31/98	ND	ND	ND	N	D
	10/10/00	1.0U	1.0U	1.0U	1.0U	NT
	9/23/02	1.0U	1.0U	1.0U	2.	.0
	11/14/03	1.0U	1.0U	1.0U	3.0)U
MW-10	1/30/96	ND	62	ND	39	0.7
	9/11/96	ND	43	ND	17	71
	12/10/96	ND	ND	ND	1	.2
	4/3/97	ND	2.1	ND	5	.2
	1/31/98	ND	ND	ND	N	D
	10/10/00	1.0U	1.0U	1.0U	1.0U	NT
	9/23/02	1.0U	1.0U	1.0U	2	.0
	11/14/03	1.0U	1.0U	1.0U	3.0	OU
MW-101	5/10/11	1.3	0.95	1.0U	1.5	0.2U
MW-102	5/10/11	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
MW-104	6/29/11	0.27	0.2U	,1.0U	0.4U 0.2U	
МТ	CA CA	5.0	700	1,000	1,0	000

Well Number	Date	Vinyl Chloride	1,1-Dichlroethane	(cis) 1,2- Dichloroehtene	Trichloroethylene	Tetrachloroethylene
			, , , , , , , , , , , , , , , , , , , 		·	T
	11/27/95	NT	NT	NT	NT	NT
	6/20/96	NT	NT	NT	NT	NT
	9/11/96	NT	NT	NT	NT	NT
	12/10/96	NT	NT	NT	NT	NT
	4/3/97	NT	NT	NT	NT	NT
	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
	9/23/02	10U	10U	10U	10U	10U
MW-1	11/14/03	NT	NT	NT	NT	NT
141.44 - 1	6/12/07	NT	NT	NT	NT	NT
	12/30/08	NT	NT	NT	NT	NT
	3/19/08	NT	NT	NT	NT	NT
	6/09	NT	NT	NT	NT	NT
	10/09	NT	NT	NT	NT	NT
1	2/10	NT	NT	NT	NT	NT
	7/27/10	NT	NT	NT	NT	NT
	4/29/11	0.4U	0.4U	0.4U	0.4U	0.4U
	11/27/95	NT	NT	NT	NT	NT
	9/11/96	NT	NT	NT	NT	NT
	12/10/96	NT	NT	NT	NT	NT
	4/3/97	NT	NT	NT	NT	NT
	1/31/98	NT	NT	NT	NT	NT
MW-2	10/10/00	NT	NT	NT	NT	
	9/23/02	NT	NT	NT	NT	NT
	11/14/03	NT	NT	NT	NT	NT
	12/30/08	NT	NT	NT	NT	NT
	11/27/95	NT	NT	NT	NT	NT
	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
MW-3	9/23/02	NT	NT	NT	NT	NT
	11/14/03	NT	NT	NT	NT	NT
	11/27/95	NT	NT	NT	NT	NT

Well Number	Date	Vinyl Chloride	1,1-Dichlroethane	(cis) 1,2- Dichlorochtene	Trichloroethylene	Tetrachloroethylene
·	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
MW-4	9/23/02	NT	NT	NT	NT	NT
	11/14/03	NT	NT	NT	NT	NT
	6/12/07	NT	NT	NT	NT	NT
	11/27/95	NT	NT	·NT	NT	NT
	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
MW-5	9/23/02	NT	NT	NT	NT	NT
	11/14/03	NT	NT	NT	NT	NT
	1/30/96	NT	NT	NT	NT	NT
	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
	9/23/02	NT	NT	NT	NT	NT
1.	11/14/03	NT	NT	NT	NT	NT
MW-6	1/18/07	NT	NT	NT	NT	NT
	6/12/07	NT	NT	NT	NT	NT
	7/27/10	NT	NT	NT	NT	NT
	4/29/11	0.2U	0.20	0.2U	0.2U	0.22
	1/30/96	NT	NT	NT	NT	NT
	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
	9/23/02	NT	NT	NT	NT	NT
	11/14/03	NT	NT	NT	NT	NT
MW-7	1/18/07	NT	NT	NT	NT	NT
	6/12/07	NT	NT	NT	NT	NT
	3/19/08	NT	NT	NT	NT	NT
	4/29/11	0.2U	0.2U	0.39	0.22	0.27
	1/30/96	NT	NT	NT	NT	NT
	9/11/96	NT	NT	NT	NT	NT
	6/12/07	NT	NT	NT	NT	NT
MW-8	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
	9/23/02	NT	NT	NT	NT	NT

Groundwater

Well Number	Date	Vinyl Chloride	1,1-Dichlroethane	(cis) 1,2- Dichlorochtene	Trichloroethylene	Tetrachloroethylene
	11/14/03	NT	NT	NT	NT	NT
	1/30/96	NT	NT.	NT	NT	NT
	9/11/96	NT	NT	NT	NT	NT
	4/3/97	NT	NT	NT	NT	NT
MW-9	1/31/98	NT	NT	NT	NT	NT
141 44 -2	10/10/00	NT	NT	NT	NT	NT
	9/23/02	NT	NT	NT	NT	NT
	11/14/03	NT	NT	NT	NT	NT
	1/30/96	NT	NT	NT	NT	NT
	9/11/96	NT	NT	NT	NT	NT
	12/10/96	NT	NT	NT	NT	NT
MW-10	4/3/97	NT	NT	NT	NT	NT
IVI VV -10	1/31/98	NT	NT	NT	NT	NT
	10/10/00	NT	NT	NT	NT	NT
	9/23/02	NT	NT	NT	NT	NT
	11/14/03	NT	NT	NT	NT	NT
MW-101	5/10/11	0.2U	0.49	0.39	0.2U	0.2U
MW-102	5/10/11	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
MW-104	6/29/11	0.2U	0.23	0.2U	0.2U	0.2U
MTCA		0.2			5.0	5.0

Notes: All units are parts per billion, ppb.

For brevity, minor constituents such as trimethylbenzene are not shown and are below cleanup levels.

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. NT indicates that the analyte was not tested for the specific sample.

5.4 Vapor Monitoring Results

Three vapor samples were obtained on June 29, 2011. An ambient air sample was taken in the basement of 5221 and samples were drawn from VP-1 and VP-2. The results are tabulated below.

Table 5
Vapor Samples
TPH Results

Sample Designation	Date	TPHv (C5-C8) Aliphatic	TPHv (C9-C12) Aliphatic	TPHv (C9-C10) Aromatic
VP-3	6/29/11	2,200	55,000	500U
VP-2	6/29/11	5,500	90.000	500U
Ambient Basement Air	6/29/11	560	710	100U
Method B Sub slab Cleanup Value		27,000	1,400	1,800
Method B Indoor Air Cleanup Value		2,700	140	180

Table 6 Vapor Samples Volatile Organic Compound Results

Sample Designation	Date	Acetone	Methylene Chlòride	Benzene	Ethyl Benzene	Toluene	m,p-Xylene	o-xylene	Styrene	1,2,4- Trimethylbenzene
VP-3	6/29/11	570	18U	16U	22U	48	44U	22U	22U	25U
VP-2	6/29/11	850	18U	16U	23	67	51	25	22U	25U
Ambient Basement Air	6/29/11	40	10	4.5	14	48	36	13	4.7	13
Method B S Cleanup		NP	53	3.2	4,600	22,000	460	460	44	NP
Method B In Cleanup		NP	5.3	0.32	460	2,200	46	46	4.4	NP

Notes for Table 5 and 6:

All values are $\mu g/m^3$.

U indicates that the analyte was not present at the numerical reporting limit. Cleanup levels are from Ecology draft publication No. 09-09-047, dated October 2009.

6.0 DISCUSSION

6.1 Soil

Based on the distribution of TPH in the soils, it is our opinion that the C&C Paints site may be separated into two distinct sites, the 5221 Ballard Avenue NW site and the Shilshole Parcels site. The two sites had distinct UST clusters that were not side by side. The impacts to soils that resulted in elevated levels of petroleum hydrocarbons from the former UST cluster on 5221 appear to be limited to the 5221 site.

As can be seen in the data in Table 1, there are soils elevated relative to the Method A cleanup value for TPH using the value of 100 ppm. For this project, expanded testing was done using the EPH/VPH methodology. The spreadsheets from using the standard Ecology macro are attached in Appendix D. As shown on the spreadsheets, the site specific cleanup value is 2,000 ppm. With the site specific value only the sample from B-102 at 10 feet fails the revised cleanup value.

As shown on the table, the impacted soils have been found in the saturated zone.

6.2 Groundwater

As can be seen in the tables, there is a clear distinction between the groundwater samples from the monitoring wells installed on the Shilshole parcels from the wells recently installed on the 5221 parcel. The groundwater impacts monitored in the past do not have continuity with the groundwater observed at 5221. MW-8 and MW-9 are both intermediate wells, upgradient of the UST cluster on the Shilshole parcels and down or crossgradient of the wells at 5221.

6.3 Vapor Intrusion

The sub slab values observed are consistent with the soils data from the nearby UST cluster. The indoor air sample is a screening level sample. An ambient outside air sample will be needed to complete the evaluation of the sub slab and basement air testing evaluation.

The levels of benzene are above the current cleanup value for indoor air however the benzene level is also within the range often observed in indoor air quality measurements. We reviewed a recent paper by Helen Dawson dated 2009 in Groundwater Monitoring and Remediation. This paper discusses the common presence of benzene in indoor air. In addition, it should be noted that the Method B levels summarized in Table 6 are based on residential exposures. The actual exposure periods for people using the basement would be far shorter in duration and would not include children. The remedial measures discussed in Section 7.0 will reduce the levels of hydrocarbons in the soil, groundwater, and hence in the vapors occupying the soil pores as well.

7.0 REMEDIAL OPTIONS

We have considered the following options for remedial measures. Other options may be available. The purpose of this discussion in this report is to provide conceptual options. Detailed cleanup plans and permits will be required to execute many of the active cleanup options. We have not completed a cost analysis of the options listed below:

Cleanup Option	Benefits	Risks	Permit Requirements
Monitored	This option is the least expensive in	Ongoing groundwater	None known.
natural	regards to short-term costs.	monitoring would be	
attenuation (no		needed to document site	
action)		conditions. This option	·
		may not be accepted by	
		financial institutions.	

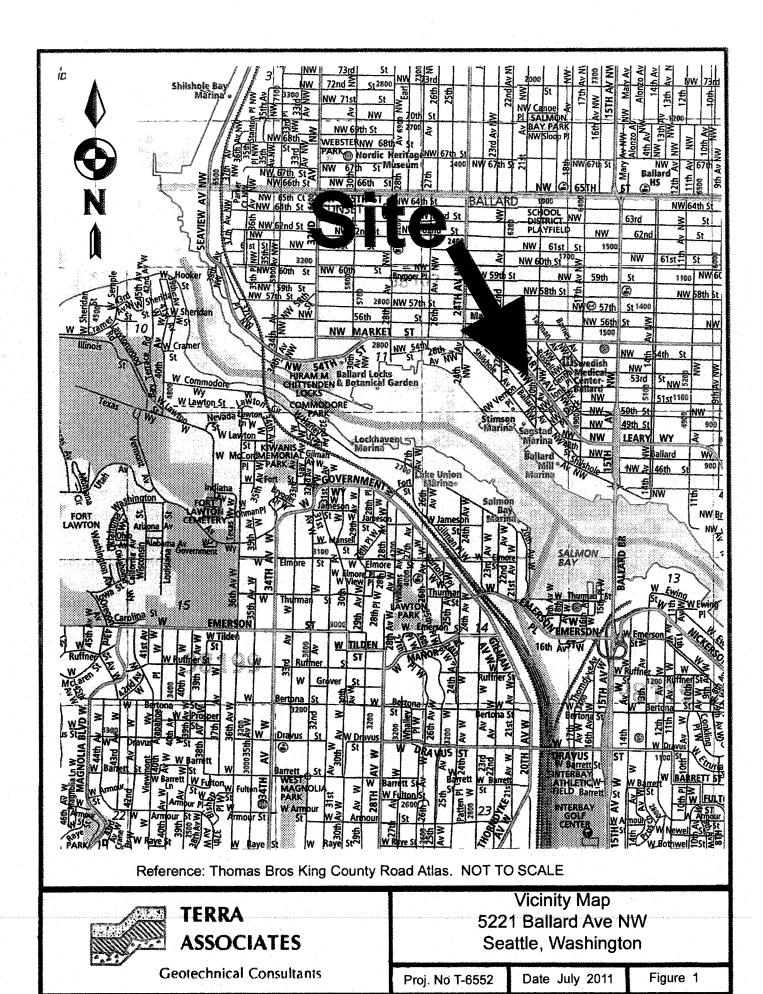
Cleanup Option	Benefits	Risks	Permit Requirements
Excavation and	This option would be the most	Temporary shoring may	Shoring would require
removal	expedient if no temporary shoring is	be needed to support the	building permit and
	needed.	adjacent building and	shoring adjacent to the
		public sidewalk. Parking	sidewalk would require a
		on-site would be	permit from the city
		eliminated for a four to	transportation department.
		eight week period.	(SDOT).
Air Sparging	This option would address vapor	The shallow groundwater	Electrical permits would
and Vacuum	intrusion issues, would reduce the	table and existing pipe	be required for power
extraction	levels of hydrocarbons in the soil	network would allow	outlets for the sparge and
	through both volatilization, and	short circuiting to occur	vacuum unit.
	enhanced bioremediation.	reducing the effectiveness	
		of vacuum extraction.	·
		The parking lot would	
		require repaving. Parking	
		on-site would be disrupted	-
		during installation for	
		three to five days and one	
		parking spot would be	
		used by the equipment.	
Enhanced Bio	This option would increase the	This option would require	A permit from the UIC
remediation-	oxygen levels in the groundwater to	at least two episodes of	office of Ecology would
calcium	accelerate the natural degradation	injections. The parking	be needed.
peroxide	that is occurring. The high levels of	lot would be needed	
injections.	TPH have created a zone that is	during the injections for at	
	deficient of oxygen in the UST	least one half day for each	
	cavity. The parking lot would be	injection and then one half	·
	closed for at least one-half of a day	day for performance soil	
	for each injection period.	sampling following the	·
,		completion of the	
		injections.	
In situ	This option would chemically	This option would include	This option would require
oxidation	oxidize the hydrocarbons. The	the use of compounds that	a permit from the UIC
	benefits are generally the same as	are corrosive and may	office. The use of
	the use of calcium peroxide.	damage existing utilities.	corrosive chemicals may
		The discussion for the	require addition effort
·		enhanced bioremediation	during permitting.
		also applies.	

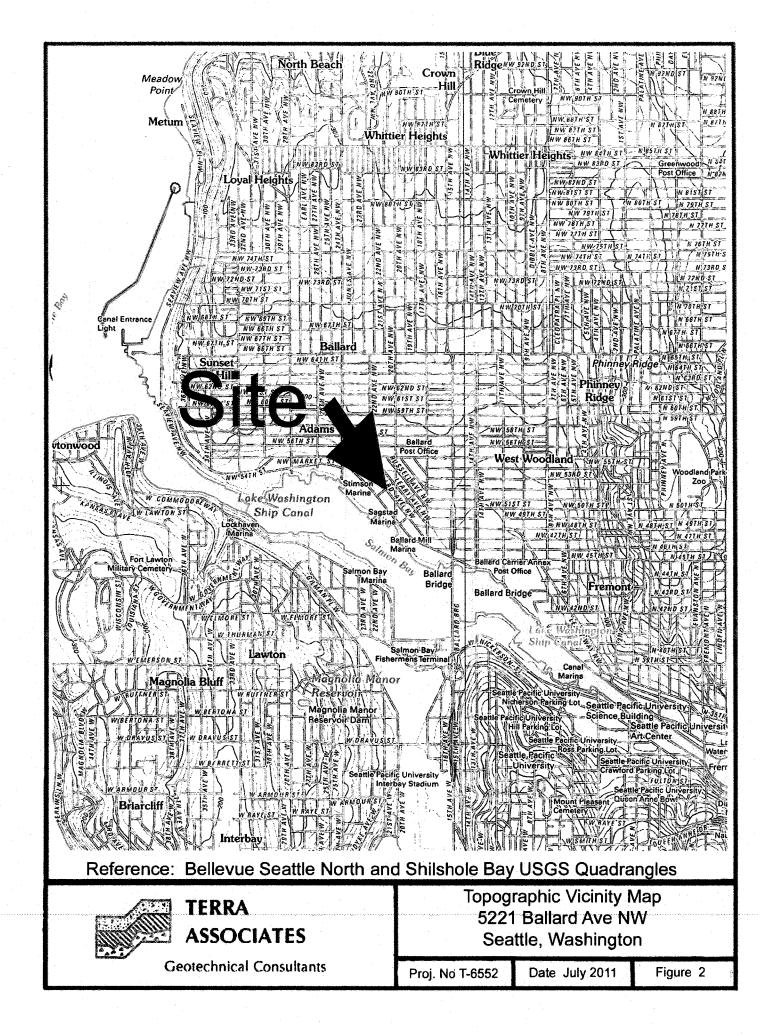
8.0 LIMITATIONS

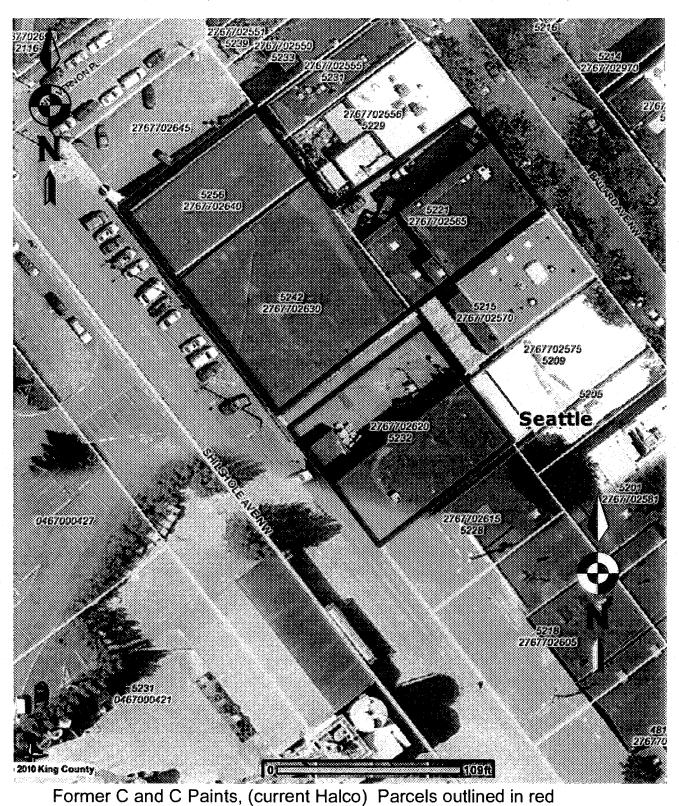
This report is the copyrighted property of Terra Associates, Inc. and was prepared in accordance with generally accepted local geo-environmental engineering practices and within the limitations of time and budget. Analytical testing of samples was based on our understanding of past land uses documented 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 report 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.







Former C and C Paints, (current Halco) Parcels outlined in rec Base map from King County iMap web site



TERRA ASSOCIATES

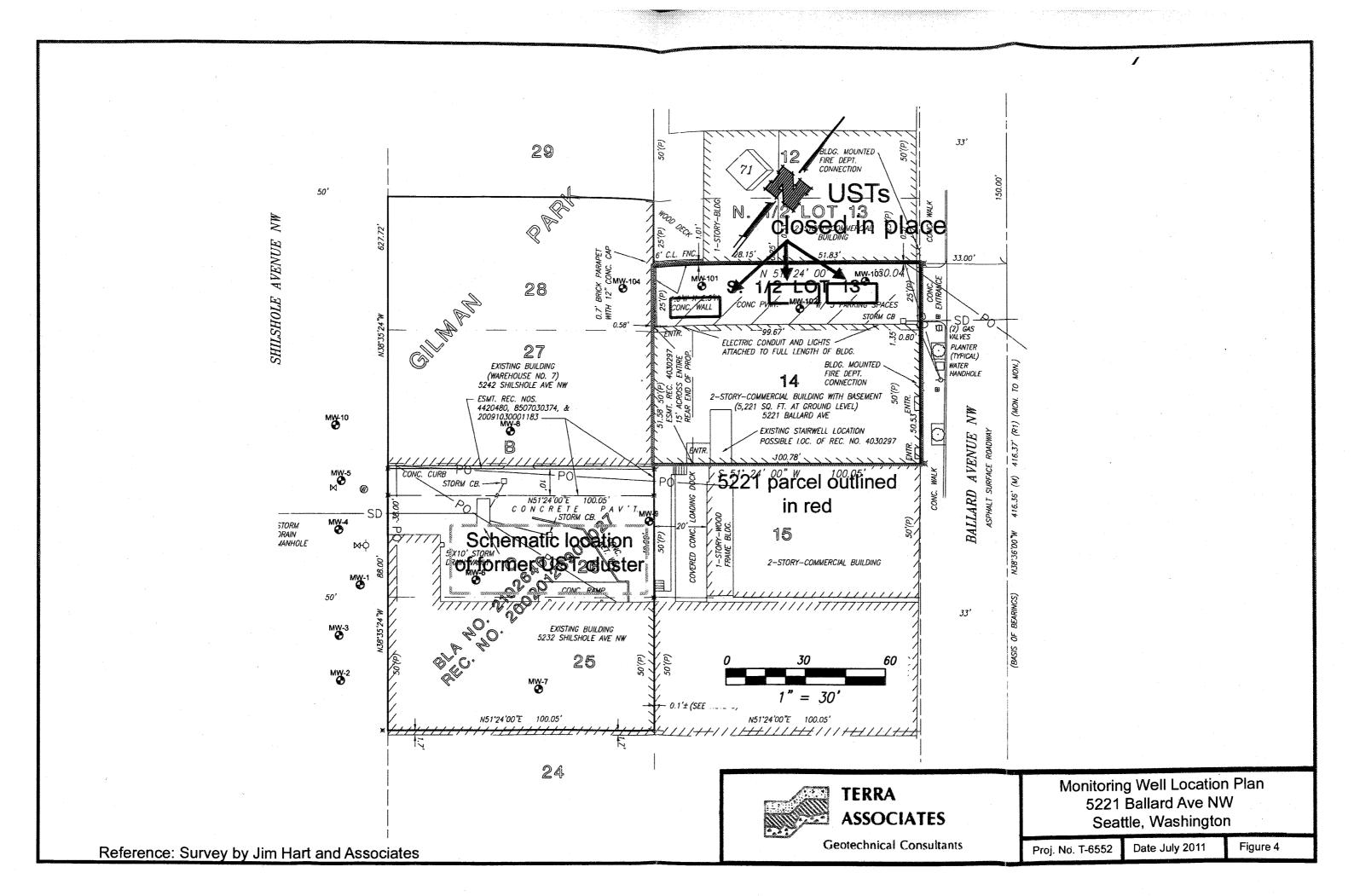
Geotechnical Consultants

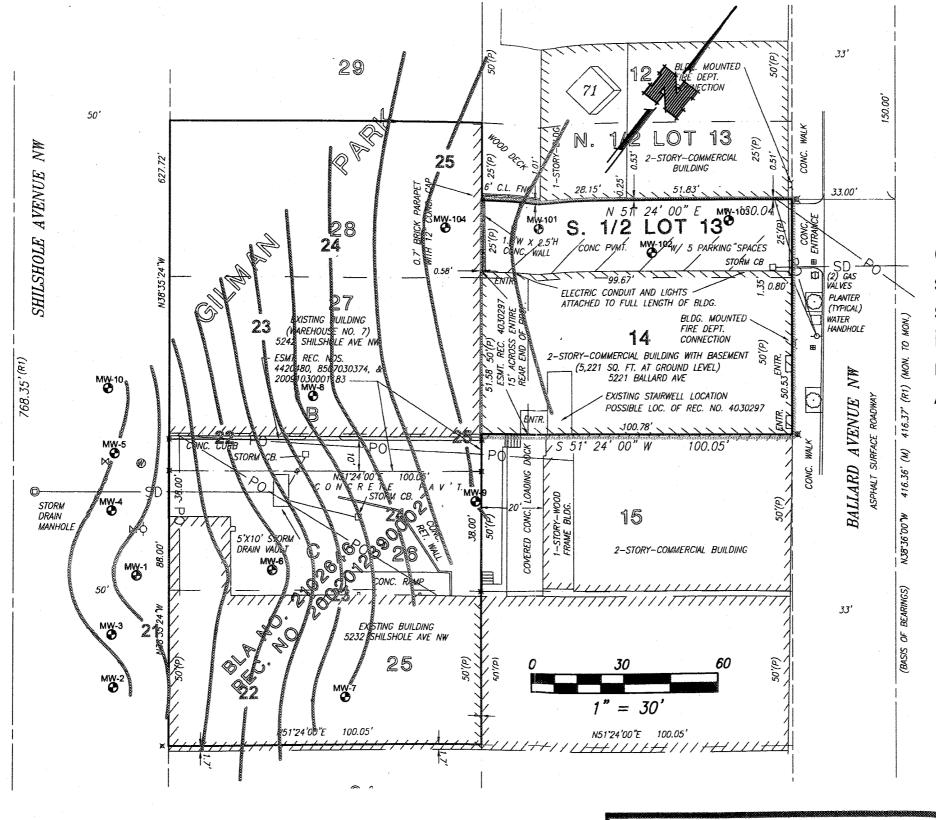
Index Location Photo 5221 Ballard Ave NW Seattle, Washington

Proj. No T-6552

Date July 2011

Figure 3





Groundwater contours on this sheet are an interpretation of static water levels measured in June of 2011. Groundwater measurements made by Terra Associates. Inc



Proj. No. T-6552

Date July 2011

Groundwater Elevation Summary

5221 Ballard Ave NW

Seattle, Washington

Figure 5

Reference: Survey by Jim Hart and Associates

Geotechnical Consultants

APPENDIX A

PRIOR REPORT LIST

Appendix A – Prior Reports with Sampling by Others

Title	Author	Date	Property Covered
Site Assessment C&C Paint Company Report	Bison Environmental Northwest, Inc.	2/19/91	Shilshole
Ballard Avenue Landmark Letter	Ballard Avenue Landmark District Board	4/17/91	5221
Buried Tanks in Alley – Cracks in Ballard Hardware South Wall Letter	Pacific Testing Laboratories	4/19/91	5221
Underground Storage Tank Closure In Place Site Assessment Report C&C Paint Company	Bison Environmental Northwest, Inc.	11/30/92	5221
Groundwater Survey and Monitoring Well Installation – C&C Paint Company Property	Columbia Environmental, Inc.	12/11/95	Shilshole
Phase 2 Environmental Site Assessment – C&C Paint Company Property	Columbia Environmental, Inc.	2/12/96	Shilshole
Cleanup Proposal – C&C Paint Company Property	ВРМ	5/17/96	Shilshole
Quarterly Groundwater Monitoring Report – C&C Paint Company Property	ВРМ	7/26/96	Shilshole
Quarterly Groundwater Monitoring Report – C&C Paint Company Property	ВРМ	10/15/96	Shilshole
Quarterly Groundwater Monitoring Report – C&C Paint Company Property	Betts, Patterson & Mines, PS	1/21/97	Shilshole
Quarterly Groundwater Monitoring Report – C&C Paint Company Property	Betts, Patterson & Mines, PS	5/25/97	Shilshole
UST Closure in Place Site Assessment Report – C&C Paints	Nowicki & Aassociates	2/10/98	5221

Appendix A – Prior Reports with Sampling by Others

Title	Author	Date	Property Covered
October 2000 Annual Groundwater Monitoring – C&C Paints Site	Nowicki & Aassociates	10/28/00	Shilshole
300-Gallon Diesel Heating Oil UST Closure Site Assessment Report – C&C Paint	Nowicki & Aassociates	11/28/00	Shilshole
September 2002 Groundwater Annual Monitoring – C&C Paints Site	Nowicki & Aassociates	9/26/02	Shilshole
Ground Water Monitoring Quarterly Report 2ndQTR06	Morse Environmental	6/28/06	Shilshole
Ground Water Monitoring Quarterly Report 3rdQTR06	Morse Environmental	8/31/06	Shilshole
Ground Water Monitoring Quarterly Report 4thQTR06	Morse Environmental	12/12/06	Shilshole
Ground Water Monitoring Quarterly Report 1stQTR07	Morse Environmental	1/2007	Shilshole
Ground Water Monitoring Quarterly Report 2ndQTR07	Morse Environmental	7/7/07	Shilshole
Ground Water Monitoring Quarterly Report 4thQTR07	Morse Environmental	11/9/07	Shilshole
Ground Water Monitoring Quarterly Report 1stQTR08	Morse Environmental	3/27/08	Shilshole
Ground Water Monitoring Quarterly Report 2ndQTR08	Morse Environmental	7/9/08	Shilshole
Ground Water Monitoring Quarterly Report 3rdQTR08	Morse Environmental	11/13/08	Shilshole
Ground Water Monitoring Quarterly Report 4thQTR08	Morse Environmental	1/20/09	Shilshole
Ground Water Monitoring Quarterly Report 1stQTR09	Morse Environmental	3/24/09	Shilshole
Ground Water Monitoring Quarterly Report 2ndQTR09	Morse Environmental	7/2009	Shilshole
Ground Water Monitoring Quarterly Report 3rdQTR09	Morse Environmental	10/2009	Shilshole
Ground Water Monitoring Quarterly Report 4thQTR09	Morse Environmental	1/2010	Shilshole
Ground Water Monitoring Quarterly Report 1stQTR10	Morse Environmental	3/2010	Shilshole
Ground Water Monitoring Quarterly Report 3rdQTR10	Morse Environmental	8/19/10	Shilshole

APPENDIX B SUBSURFACE EXPLORATION/FIELD SAMPLING

5221 Ballard Avenue NW Seattle, Washington

Explorations MW-101, MW-102, and MW-103 were advanced using a drill rig owned and operated by Cascade Drilling. MW-104 was drilled using a limited access drill rig owned and operated by BoreTech. All drilling was done using hollow stem augers. In MW-101, MW-102, and MW-103, the samples were taken using a 2-inch ID sampler driven using a 300 pound hammer dropping 30 inches. Due to low overhead in the warehouse, the boom could not be raised to allow SPT samples to be taken. Soil samples were taken from the open hole using a hand auger at selected depths. Prior to taking soil samples, the drill tools were removed from the hole

The test pits in the basement of 5221 were hand excavated using a post hole digger and a hand auger.

All drilling tools were cleaned prior to starting explorations and in between explorations to reduce the potential for cross contamination.

A representative of our firm continuously monitored the drilling and kept a detailed log of each test exploration. Samples recovered during drilling were logged by our representative and placed into laboratory-prepared glassware. All samples were refrigerated pending delivery to OnSite Environmental Inc. in Redmond, Washington. We followed chain of custody protocols for all samples.

Samples were screened in the field using the head space and sheen methods. For the head space screening, a sub sample of the soil is placed in a plastic bag and allowed to reach ambient temperatures. The probe from a hand help Photo Ionization Device is then inserted to measure the air in the headspace of the bag. The sheen test consists of placing a subsample into a pan with clean water to see if sheen develops.

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. The vapor probes were hand excavated. The logs for the vapor probes are below in Table B-1.

Table B-1 Vapor Probe Logs

VP-1

Depth (Below top of slab)	Soils Encountered	Sheen/Odor/PID
0-4"	Concrete slab	
4-12"	1" minus clean round rock	No/No/0.0
12-18"	Mottled gray and brown silty sand with gravel, moist, loose to medium dense. (SM)	No//No/0.0
18-54"	Brown silty sand with gravel sandy gravels lenses. (SM) Seepage at 3 feet.	No/No/0.0

VP-2

Depth (Below top of slab)	Soils Encountered	Sheen/Odor/PID
0-4"	Concrete slab	
4-12"	Brown sandy gravel, moist.	Light odor
12-48"	Gray/brown sandy silt with	659 ppm @ 18"
	gravel, wet by 3.5 feet.	45.4 ppm @ 4'

VP-3

Depth (Below top of slab)	Soils Encountered	Sheen/Odor/PID
0-5"	Concrete slab	
5-13"	Brown gravelly sand, moist.	No/No/0.0
13-54"	Gray silty sand with gravel,	Light odor
	moist becoming wet with	24.7ppm @ 18"
	depth. (SM)	0.0 ppm @ 48"

During groundwater sampling, some basic parameters were monitored. The recent and archived groundwater parameters are summarized below in Table B-2.

Table B-2 Groundwater Parameters

Well Number	Date	pH	Conductivity	DO	ORP	Тетр.
	6/21/06	6.19	600	NM	NM	NM
MW-1	12/15/06	6.97	NM	NM	NM	NM
	4/29/11	NM	NM	NM	NM	15.8
MXX/ 2	6/21/06	6.97	249	NM	NM	NM
MW-2	12/15/06	6.9	NM	NM	NM	NM
MW-3	12/15/06	6.35	NM	NM	NM	NM
3.4337.4	6/21/06	6.3	484	NM	NM	NM
MW-4	12/15/06	6.9	NM	NM	NM	NM
N 6337 - 5	6/21/06	6.05	430	NM	NM	NM
MW-5	12/15/06	6.85	NM	NM	NM	NM
	6/21/06	6.67	521	NM	NM_	NM
MW-6	12/15/06	6.9	NM	NM	NM	NM
	4/29/11	NM	NM	NM	NM	12.6
2437.7	6/21/06	6.7	511	NM	NM	NM
MW-7	4/29/11	NM	NM	NM	NM	14.4
MANA	6/21/06	6.6	579	NM	NM	NM
MW-8	12/15/06	7.0	NM	NM	NM	NM
MW-10	12/15/06	6.9	NM	NM	NM	NM
NAW 101	5/10/11	NM	NM	NM	NM	15.3
MW-101	7/6/11	6.55	148	0.32	-10	16.0
MW-102	5/10/11	NM	NM	NM	NM	15.2
MXX 102	5/10/11	NM	NM	NM	NM	16.1
MW-103	7/6/11	6.49	113	0.3	-45	16.6

Notes:

Data prior to 2011 was collected by others.

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.

LOG OF BORING NO. B-101 Figure No. B-1 Project: 5221 Ballard Avenue North Project No: T-6552 Date Drilled: 5/6/11 Driller: Cascade Drilling Client: Halco Logged By: NRH Location: Seattle, Washington Approx. Elev: N/A ocket Penetrometer TSF 2 3 Consistency/ Observ. Soil Description Depth (ft) Relative Density Well Moisture Content % SPT (N) Wp J----- WI Blows/ft 10 30 50 70 10 20 30 (3.5 inches ASPHALT SLAB) 1-Brown silty SAND/sandy SILT, moist. Soft 2 (Fill) 3 Soft Dark gray sandy SILT, moist, light hydrocarbon odor. Mottled 6 discoloration. (FIII) 7 Becomes sandier, occasional small chunks of brick, copper. 9 Medium Dense Moderate hydrocarbon odor. 10-11 12 Dense 13 Gray silty SAND with gravel, moist, 14 becomes wet by 13 feet. (Till) 15-16 17 Dense 18 50 19 20 Boring terminated at 20 feet. 21 2-inch PVC monitoring well installed as shown using 0.010 slotted screen from 22 10 to 20 feet. 23 24 25

Note: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpeted as being indicative of other areas of the site.



Terra Associates, Inc.

Consultants in Geotechnical Engineering, Geology and Environmental Earth Sciences

LOG OF BORING NO. B-102 Figure No. B-2 Project: 5221 Ballard Avenue North Project No: T-6552 Date Drilled: 5/6/11 Driller: Cascade Drilling Client: Halco Logged By: NRH Location: Seattle, Washington Approx. Elev: N/A Pocket Penetrometer Sample Interval TSF 3 Consistency/ Observ. Soil Description Depth (ft) Relative Density Well Moisture Content % SPT (N) Wp J----x---- | WI 10 30 50 70 Blows/ft 10 20 30 40 (7 inches ASPHALT) 1-Loose/Soft 2 Brown silty SAND with gravel, moist. 3 6 Pea gravel with silt and brick bits, 8 Loose moderate hydrocarbon odor. (Fill) 9. 10 Gray silty SAND with gravel, moist, becomes wet by 12.5 feet. (Till) 11 Medium Dense 50 12 13 Dense 50 14 Minor amount of silt by 15 feet. 15. 16 50 17 Dense 18 19 20 Boring terminated at 20 feet. 21 2-inch PVC monitoring well installed as 22 shown using 0.010 slotted screen from 10 to 20 feet. 23 24 25

Note: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpeted as being indicative of other areas of the site.



Terra Associates, Inc.

Consultants in Geotechnical Engineering, Geology and Environmental Earth Sciences

LOG OF BORING NO. B-103 Figure No. B-3 Project: 5221 Ballard Avenue North Project No: T-6552 Date Drilled: 5/6/11 Client: Halco Driller: Cascade Drilling Logged By: NRH Location: Seattle, Washington Approx. Elev: N/A Pocket Penetrometer Sample Interval TSF 3 4 Consistency/ Observ. Soil Description Depth (ft) Relative Density Well Moisture Content % SPT (N) Wp |----x----| WI 10 30 50 70 Blows/ft 10 20 30 (5 inches ASPHALT SLAB) Brown silty SAND/sandy SILT, small brick bits, moist. (Fill) Loose/Soft 5 Light hydrocarbon odor. 6-9 Medium Dense 10 11 12 40 13 Gray silty SAND, moist, wet by 12.5 Dense feet, light to moderate hydrocarbon 14 odor, slight sheen from 10 to 14 feet. 50 (TIII) 15 16 17 18 19 50 20 Boring terminated at 20 feet. 21 2-inch PVC monitoring well installed as shown using 0.010 slotted screen from 22 10 to 20 feet. 23 24 25 Terra Note: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location Associates, Inc. and should not be interpeted as being indicative of other areas Consultants in Geotechnical Engineering, Geology of the site.

and Environmental Earth Sciences

LOG OF DPT NO. 104 Figure No. B-4 Project: 5221 Ballard Avenue North Project No: T-6552 Date Drilled: 6/13/11 Client: Halco Driller: Boretec Logged By: NRH Location: Ballard, Washington Approx. Elev: N/A Sample Interval Observ. Soil Description Odor/Sheen Recovery % PID (PPM) Depth (ft) Well 120 20 40 60 80 7-inch thick concrete slab. 1. 98 2. Light Odor/No 0.0 Dark brown sandy SILT, moist. Ţ 3-Becomes gray. 100 0.0 5 No/No 6 0.0 9. No/No 10 11 Saturated gray silty SAND/sandy SILT. 12-(SM-ML) 13-0.0 14 100 No/No 15 Terminated at 15 feet. 16-2-inch PVC monitoring well with .10 screen from 5 to 15 feet constructed as shown. 17 18-19 20 Terra Note: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location Associates, Inc. and should not be interpeted as being indicative of other areas Consultants in Geotechnical Engineering, Geology of the site. and Environmental Earth Sciences

APPENDIX C

SITE SURVEY

GENERAL_NOTES:

SHILSHOLE AVENUE

STORM DRAIN MANHOLE

N38°35′24″W

- MONITORING WELLS FIELD LOCATED BY JIM ASSOCIATES, LLC ON JUNE 16, 2011.
- 2. WELLS NUMBERING PROVIDED BY CHUCK LI ASSOCIATES, INC.

50'

MW-5 ⋈

50'

SD

88.00, MW-1

BEARING:

LOT BOUNDARY ADJUSTMENT NO. 2102646, IBER 20020123900027 BETWEEN CENTERLINE MONUMENTS ENUE.

F SURVEY:

TION - FIELD RUN CLOSED TRAVERSE NO ADJUSTMENT 3" TRIMBLE 5603 DR 200+ TOTAL STATION

NTATION:

ICY MEETS OR EXCEEDS WAC 332-130-090

POINT #270 ELEV=68.43 BRASS CAP AT THE NE QUADRANT OF THE INTERSECTION ST & 20TH AVE NW

ES:

NO. 2102646, REC. NO. 20020123900027

MONITORING WELLS TABLE

4	NORTHING	EASTING	ELEVATION
IRB ST(49953.40675	49720.65929	26.44
\sim	49920.88825	49737.15635	25.98
	49933.74668	49726.23062	26.05
<u>ጌ</u>	49964.56995	49701.41058	26.21
5'. DK	49979.48859	49690.73136	26.32
1]	49982.02764	49753.36246	26.80
[برا	49964.60250	49797.35017	26.89
//	50033.62448	49728.83211	27.97
	50039.93662	49790.61629	30.24
	49994.35597	49676.15005	26.48
	50121.75731	49751.40759	36.77
"	50137.73850	49785.71653	36.35
	50161.02956	49798.54575	36.13
	50102.14271	49728.42416	28.23

EXHIBIT #1

LIENT : HALCO PROPERTIES, LLC

DDRESS: <u>P.O. BOX 512</u> TY: AUBURN

HONE: (206) 910-5787 ZIP: 98071-0512

STATE:*WA*

SCALE: " = 30"

DATE: 06/24/11

JOB NO.: 10 - 19

-survey\PROJECTS\10-19 Halco LLC\dwg\10-19 MW Exhibit.dwg

27 June 2011 | Uho 1 | drowing-

APPENDIX D ANALYTICAL TESTING SOIL AND GROUNDWATER

5221 Ballard Avenue NW Seattle, Washington

All soil and groundwater samples were placed into laboratory-prepared glassware. Each sample was given unique sample identification. In the field and on the chain of custody, samples from Boring B-104 (MW-104) were labeled as B-201 (MW-201). All samples were kept refrigerated pending delivery to OnSite Environmental Inc. in Redmond, Washington. Chain of custody protocols were followed for all samples. OnSite Environmental Inc. has accreditation from Ecology for all of the testing performed during this project.

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.

Based on our review of the laboratory data, it is our opinion that the results are acceptable for current use.



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

May 24, 2011

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

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1105-064

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on May 6, 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

Project: 6552

Case Narrative

Samples were collected on May 6, 2011 and received by the laboratory on May 6, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

NWTPH Gx Analysis

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

The chromatograms for samples B-101-9', B-102-10' and B-103-10' are not similar to those of a typical gas.

Volatiles EPA 8260B Analysis

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

Some MTCA Method A cleanup levels are non-achievable for samples B-102-10' and B-103-10' due to the necessary dilution of the samples.

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

Project: 6552

NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

0 0 117 /				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-101-9'					
Laboratory ID:	05-064-02					
Gasoline	82	7.0	NWTPH-Gx	5-9-11	5-9-11	Τ
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	103	68-124				
Client ID:	B-101-14'					
Laboratory ID:	05-064-03					
Gasoline	ND	4.8	NWTPH-Gx	5-9-11	5-9-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	68-124				
Client ID:	B-102-10'		•			
Laboratory ID:	05-064-07					
Gasoline	3900	120	NWTPH-Gx	5-9-11	5-10-11	Т
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	68-124				
Client ID:	B-102-15'					
Laboratory ID:	05-064-09					
Gasoline	ND	5.7	NWTPH-Gx	5-9-11	5-9-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	68-124				
Client ID:	B-103-10'					
Laboratory ID:	05-064-13					
Gasoline	1400	100	NWTPH-Gx	5-9-11	5-10-11	T
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	101	68-124				
Client ID:	B-103-15'					
Laboratory ID:	05-064-15					
Gasoline	ND	5.1	NWTPH-Gx	5-9-11	5-10-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	68-124				

NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509S1					
Gasoline	ND	5.0	NWTPH-Gx	5-9-11	5-9-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	68-124				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-00	69-01								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						96 93	68-124			

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-101-9'					
Laboratory ID:	05-064-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Chloromethane	ND	0.0060	EPA 8260	5-10-11	5-10-11	
Vinyl Chloride	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Bromomethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Chloroethane	ND	0.0060	EPA 8260	5-10-11	5-10-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Acetone	0.022	0.0060	EPA 8260	5-10-11	5-10-11	
lodomethane	ND	0.0060	EPA 8260	5-10-11	5-10-11	
Carbon Disulfide	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Methylene Chloride	ND	0.0060	EPA 8260	5-10-11	5-10-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Vinyl Acetate	ND	0.0060	EPA 8260	5-10-11	5-10-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
2-Butanone	ND	0.0060	EPA 8260	5-10-11	5-10-11	
Bromochloromethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Chloroform	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	5-1 0 -11	5-1 0 -11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Benzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Trichloroethene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Dibromomethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Bromodichloromethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260	5-10-11	5-10-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260	5-10-11	5-10-11	
Toluene	ND	0.0060	EPA 8260	5-10-11	5-10-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	5-10-11	5-10-11	

Project: 6552

VOLATILES by EPA 8260B page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-101-9'					
Laboratory ID:	05-064-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Tetrachloroethene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
2-Hexanone	ND	0.0060	EPA 8260	5-10-11	5-10-11	
Dibromochloromethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Chlorobenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Ethylbenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
m,p-Xylene	ND	0.0024	EPA 8260	5-10-11	5-10-11	
o-Xylene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Styrene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Bromoform	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Isopropylbenzene	0.0035	0.0012	EPA 8260	5-10-11	5-10-11	
Bromobenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	5-10-11	5-10-11	
n-Propylbenzene	0.0049	0.0012	EPA 8260	5-10-11	5-10-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
n-Butylbenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2-Dibromo-3-chloropropane		0.0060	EPA 8260	5-10-11	5-10-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Hexachlorobutadiene	ND	0.0060	EPA 8260	5-10-11	5-10-11	
Naphthalene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	5-10-11	5-10-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	73	63-127				
Toluene-d8	85	65-1 <i>29</i>				
4-Bromofluorobenzene	81	55-121				

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

0 0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-101-14'					
Laboratory ID:	05-064-03					
Dichlorodifluoromethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Chloromethane	ND	0.0042	EPA 8260	5-10-11	5-10-11	
Vinyl Chloride	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Bromomethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Chloroethane	ND	0.0042	EPA 8260	5-10-11	5-10-11	
Trichlorofluoromethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Acetone	0.013	0.0042	EPA 8260	5-10-11	5-10-11	
lodomethane	ND	0.0042	EPA 8260	5-10-11	5-10-11	
Carbon Disulfide	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Methylene Chloride	ND	0.0042	EPA 8260	5-10-11	5-10-11	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Methyl t-Butyl Ether	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Vinyl Acetate	ND	0.0042	EPA 8260	5-10-11	5-10-11	
2,2-Dichloropropane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
2-Butanone	ND	0.0042	EPA 8260	5-10-11	5-10-11	
Bromochloromethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Chloroform	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Carbon Tetrachloride	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,1-Dichloropropene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Benzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2-Dichloroethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Trichloroethene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2-Dichloropropane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Dibromomethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Bromodichloromethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260	5-10-11	5-10-11	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260	5-10-11	5-10-11	
Toluene	ND	0.0042	EPA 8260	5-10-11	5-10-11	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260	5-10-11	5-10-11	

Project: 6552

VOLATILES by EPA 8260B page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-101-14'					
Laboratory ID:	05-064-03					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Tetrachloroethene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,3-Dichloropropane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
2-Hexanone	ND	0.0042	EPA 8260	5-10-11	5-10-11	
Dibromochloromethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2-Dibromoethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Chlorobenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Ethylbenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
m,p-Xylene	ND	0.0017	EPA 8260	5-10-11	5-10-11	
o-Xylene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Styrene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Bromoform	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Isopropylbenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Bromobenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260	5-10-11	5-10-11	
n-Propylbenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
2-Chlorotoluene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
4-Chiorotoluene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,3,5-Trimethylbenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
tert-Butylbenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2,4-Trimethylbenzene	ND	0 .00083	EPA 8260	5-10-11	5-10-11	
sec-Butylbenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
p-Isopropyltoluene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
n-Butylbenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2-Dibromo-3-chloropropane	. ND	0.0042	EPA 8260	5-10-11	5-10-11	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Hexachlorobutadiene	ND	0.0042	EPA 8260	5-10-11	5-10-11	
Naphthalene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260	5-10-11	5-10-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	72	63-127				
Toluene-d8	86	65-129				
4-Bromofluorobenzene	82	55-121				

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-102-10'					
Laboratory ID:	05-064-07					
Dichlorodifluoromethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Chloromethane	ND	0.29	EPA 8260	5-10-11	5-11-11	
Vinyl Chloride	ND	0.058	EPA 8260	5-10-11	5-11-11	
Bromomethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Chloroethane	ND	0.29	EPA 8260	5-10-11	5-11-11	
Trichlorofluoromethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,1-Dichloroethene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Acetone	ND	0.29	EPA 8260	5-10-11	5-11-11	
Iodomethane	ND	0.29	EPA 8260	5-10-11	5-11-11	
Carbon Disulfide	ND	0.058	EPA 8260	5-10-11	5-11-11	
Methylene Chloride	ND	0.29	EPA 8260	5-10-11	5-11-11	
(trans) 1,2-Dichloroethene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Methyl t-Butyl Ether	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,1-Dichloroethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Vinyl Acetate	ND	0.29	EPA 8260	5-10-11	5-11-11	
2,2-Dichloropropane	ND	0.058	EPA 8260	5-10-11	5-11-11	
(cis) 1,2-Dichloroethene	ND	0.058	EPA 8260	5-10-11	5-11-11	
2-Butanone	ND	0.29	EPA 8260	5-10-11	5-11-11	
Bromochloromethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Chloroform	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,1,1-Trichloroethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Carbon Tetrachloride	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,1-Dichloropropene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Benzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2-Dichloroethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Trichloroethene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2-Dichloropropane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Dibromomethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Bromodichloromethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
2-Chloroethyl Vinyl Ether	ND	0.29	EPA 8260	5-10-11	5-11-11	
(cis) 1,3-Dichloropropene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Methyl Isobutyl Ketone	ND	0.29	EPA 8260	5-10-11	5-11-11	
Toluene	ND	0.29	EPA 8260	5-10-11	5-11-11	
(trans) 1,3-Dichloropropene	ND	0.058	EPA 8260	5-10-11	5-11-11	

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				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-102-10'				· · · · · · · · · · · · · · · · · · ·	
Laboratory ID:	05-064-07					
1,1,2-Trichloroethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Tetrachloroethene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,3-Dichloropropane	ND	0.058	EPA 8260	5-10-11	5-11-11	
2-Hexanone	ND	0.29	EPA 8260	5-10-11	5-11-11	
Dibromochloromethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2-Dibromoethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Chlorobenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,1,1,2-Tetrachloroethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
Ethylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
m,p-Xylene	ND	0.12	EPA 8260	5-10-11	5-11-11	
o-Xylene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Styrene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Bromoform	ND	0.058	EPA 8260	5-10-11	5-11-11	
Isopropylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Bromobenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,1,2,2-Tetrachloroethane	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2,3-Trichloropropane	ND	0.058	EPA 8260	5-10-11	5-11-11	
n-Propylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
2-Chlorotoluene	ND	0.058	EPA 8260	5-10-11	5-11-11	
4-Chlorotoluene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,3,5-Trimethylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
tert-Butylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2,4-Trimethylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
sec-Butylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,3-Dichlorobenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
p-Isopropyltoluene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,4-Dichlorobenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2-Dichlorobenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
n-Butylbenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2-Dibromo-3-chloropropane	e ND	0.29	EPA 8260	5-10-11	5-11-11	
1,2,4-Trichlorobenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Hexachlorobutadiene	ND	0.29	EPA 8260	5-10-11	5-11-11	
Naphthalene	ND	0.058	EPA 8260	5-10-11	5-11-11	
1,2,3-Trichlorobenzene	ND	0.058	EPA 8260	5-10-11	5-11-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	63	63-127				
Toluene-d8	<i>79</i>	65-129				
4-Bromofluorobenzene	<i>78</i>	55-121				

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

			4 4	Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-102-15'					
Laboratory ID:	05-064-09					
Dichlorodifluoromethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Chloromethane	ND	0.0047	EPA 8260	5-10-11	5-10-11	
Vinyl Chloride	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Bromomethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Chloroethane	ND	0.0047	EPA 8260	5-10-11	5-10-11	
Trichlorofluoromethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethene	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Acetone	0.0084	0.0047	EPA 8260	5-10-11	5-10-11	
lodomethane	ND	0.0047	EPA 8260	5-10-11	5-10-11	
Carbon Disulfide	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Methylene Chloride	ND	0.0047	EPA 8260	5-10-11	5-10-11	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Vinyl Acetate	ND	0.0047	EPA 8260	5-10-11	5-10-11	
2,2-Dichloropropane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260	5-10-11	5-10-11	
2-Butanone	ND	0.0047	EPA 8260	5-10-11	5-10-11	
Bromochloromethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Chloroform	ND	0.00095	EPA 8260	5-10 - 11	5-10-11	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Carbon Tetrachloride	ND	0.00095	EPA 8260	5-10-11	5-10-11	
1,1-Dichloropropene	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Benzene	ND	0.00095	EPA 8260	5-10-11	5-10-11	
1,2-Dichloroethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Trichloroethene	ND	0.00095	EPA 8260	5-10-11	5-10-11	
1,2-Dichloropropane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Dibromomethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Bromodichloromethane	ND	0.00095	EPA 8260	5-10-11	5-10-11	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260	5-10-11	5-10-11	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260	5-10-11	5-10-11	
Methyl Isobutyl Ketone	ND	0.0047	EPA 8260	5-10-11	5-10-11	
Toluene	ND	0.0047	EPA 8260	5-10-11	5-10-11	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260	5-10-11	5-10-11	

Project: 6552

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Result PQL Method Prepared Analyzed		Date	Date				
Laboratory ID:	d Flags	Analyzed	Prepared	Method	PQL	Result	Analyte
1,1,2-Trichloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Tetrachloroethene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,3-Dichloropropane ND 0.00095 EPA 8260 5-10-11 5-10-11 2-Hexanone ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2-Dibromoethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>B-102-15'</th> <th>Client ID:</th>						B-102-15'	Client ID:
Tetrachloroethene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,3-Dichloropropane ND 0.00095 EPA 8260 5-10-11 5-10-11 2-Hexanone ND 0.00095 EPA 8260 5-10-11 5-10-11 Dibromochloromethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2-Dibromoethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Tetrylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-1						05-064-09	Laboratory ID:
1,3-Dichloropropane ND 0.00095 EPA 8260 5-10-11 5-10-11 2-Hexanone ND 0.0047 EPA 8260 5-10-11 5-10-11 Dibromochloromethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2-Dibromoethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 In,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Stylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11<		5-10-11	5-10-11	EPA 8260	0.00095	ND	1,1,2-Trichloroethane
2-Hexanone ND 0.0047 EPA 8260 5-10-11 5-10-11 Dibromochloromethane ND 0.0095 EPA 8260 5-10-11 5-10-11 1,2-Dibromochlane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 O-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromoform ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11<	I	5-10-11	5-10-11	EPA 8260	0.00095	ND	Tetrachloroethene
Dibromochloromethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2-Dibromoethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 mp-Xylene ND 0.0019 EPA 8260 5-10-11 5-10-11 o-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromoform ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11	I	5-10-11	5-10-11	EPA 8260	0.00095	ND	1,3-Dichloropropane
1,2-Dibromoethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 m.p-Xylene ND 0.0019 EPA 8260 5-10-11 5-10-11 o-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 o-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromoform ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,2,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-1	I	5-10-11	5-10-11	EPA 8260	0.0047	ND	2-Hexanone
Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 m,p-Xylene ND 0.0019 EPA 8260 5-10-11 5-10-11 o-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromoform ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,2,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2,3-Trimeloropropane ND 0.00095 EPA 8260 5-10-11	I	5-10-11	5-10-11	EPA 8260	0.00095	ND	Dibromochloromethane
Chlorobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,1,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 m,p-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 O-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromoform ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromoform ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2,3-Trichloropropane ND 0.00095 EPA 8260 5-10-11 5-10-11		5-10-11	5-10-11	EPA 8260	0.00095	ND	1,2-Dibromoethane
Ethylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 m,p-Xylene ND 0.0019 EPA 8260 5-10-11 5-10-11 o-Xylene ND 0.00095 EPA 8260 5-10-11 5-10-11 Styrene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromoform ND 0.00095 EPA 8260 5-10-11 5-10-11 Isopropylbenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 Bromobenzene ND 0.00095 EPA 8260 5-10-11 5-10-11 1,1,2,2-Tetrachloroethane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2,3-Trichloropropane ND 0.00095 EPA 8260 5-10-11 5-10-11 1,2,3-Trichloropropane ND 0.00095 EPA 8260 5-10-11 5-10-11 2-Chlorotoluene ND 0.00095 EPA 8260 5-10-11 5-10-11 4-Chlorotoluene ND 0.00095 EPA 8260 5-10-11 <td< td=""><td>I</td><td>5-10-11</td><td>5-10-11</td><td>EPA 8260</td><td>0.00095</td><td>ND</td><td>Chlorobenzene</td></td<>	I	5-10-11	5-10-11	EPA 8260	0.00095	ND	Chlorobenzene
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				EPA 8260	0.00095	ND	Naphthalene
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Surrogate: Percent Recovery Control Limits					Control Limits	Percent Recovery	Surrogate:
Dibromofluoromethane 71 63-127						•	-
Toluene-d8 86 65-129							Toluene-d8
4-Bromofluorobenzene 85 55-121							4-Bromofluorobenzene

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-103-10'					
Laboratory ID:	05-064-13					
Dichlorodifluoromethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Chloromethane	ND	0.28	EPA 8260	5-10-11	5-11-11	
Vinyl Chloride	ND	0.056	EPA 8260	5-10-11	5-11-11	
Bromomethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Chloroethane	ND	0.28	EPA 8260	5-10-11	5-11-11	
Trichlorofluoromethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,1-Dichloroethene .	ND	0.056	EPA 8260	5-10-11	· 5-11-11	
Acetone	ND	0.28	EPA 8260	5-10-11	5-11-11	
lodomethane	ND	0.28	EPA 8260	5-10-11	5-11-11	
Carbon Disulfide	ND	0.056	EPA 8260	5-10-11	5-11-11	
Methylene Chloride	ND	0.28	EPA 8260	5-10-11	5-11-11	
(trans) 1,2-Dichloroethene	ND	0.056	EPA 8260	5-10-11	5-11-11	
Methyl t-Butyl Ether	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,1-Dichloroethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Vinyl Acetate	ND	0.28	EPA 8260	5-10-11	5-11-11	
2,2-Dichloropropane	ND	0.056	EPA 8260	5-10-11	5-11-11	
(cis) 1,2-Dichloroethene	ND	0.056	EPA 8260	5-10-11	5-11-11	
2-Butanone	ND	0.28	EPA 8260	5-10-11	5-11-11	
Bromochloromethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Chloroform	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,1,1-Trichloroethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Carbon Tetrachloride	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,1-Dichloropropene	ND	0.056	EPA 8260	5-10-11	5-11-11	
Benzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2-Dichloroethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Trichloroethene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2-Dichloropropane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Dibromomethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Bromodichloromethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
2-Chloroethyl Vinyl Ether	ND	0.28	EPA 8260	5-10-11	5-11-11	
(cis) 1,3-Dichloropropene	ND	0.056	EPA 8260	5-10-11	5-11-11	
Methyl Isobutyl Ketone	ND	0.28	EPA 8260	5-10-11	5-11-11	
Toluene	ND	0.28	EPA 8260	5-10-11	5-11-11	
(trans) 1,3-Dichloropropene	ND	0.056	EPA 8260	5-10-11	5-11-11	

VOLATILES by EPA 8260B page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-103-10'					
Laboratory ID:	05-064-13					
1,1,2-Trichloroethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Tetrachloroethene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,3-Dichloropropane	ND	0.056	EPA 8260	5-10-11	5-11-11	
2-Hexanone	ND	0.28	EPA 8260	5-10-11	5-11-11	
Dibromochloromethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2-Dibromoethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Chlorobenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,1,1,2-Tetrachloroethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
Ethylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
m,p-Xylene	ND	0.11	EPA 8260	5-10-11	5-11-11	
o-Xylene	ND	0.056	EPA 8260	5-10-11	5-11-11	
Styrene	ND	0.056	EPA 8260	5-10-11	5-11-11	
Bromoform	ND	0.056	EPA 8260	5-10-11	5-11-11	
Isopropylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
Bromobenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,1,2,2-Tetrachloroethane	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2,3-Trichloropropane	ND	0.056	EPA 8260	5-10-11	5-11-11	
n-Propylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
2-Chlorotoluene	ND	0.056	EPA 8260	5-10-11	5-11-11	
4-Chlorotoluene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,3,5-Trimethylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
tert-Butylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2,4-Trimethylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
sec-Butylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,3-Dichlorobenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
o-Isopropyltoluene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,4-Dichlorobenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2-Dichlorobenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
n-Butylbenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2-Dibromo-3-chloropropane		0.28	EPA 8260	5-10-11	5-11-11	
1,2,4-Trichlorobenzene	ND	0.056	EPA 8260	5-10-11	5-11-11	
Hexachlorobutadiene	ND	0.28	EPA 8260	5-10-11	5-11-11	
Naphthalene	ND	0.056	EPA 8260	5-10-11	5-11-11	
1,2,3-Trichlorobenzene	0.086	0.056	EPA 8260	5-10-11	5-11-11	
Surrogate:	Percent Recovery	Control Limits		0 ,0 11	<u> </u>	
Dibromofluoromethane	67	63-127				
Toluene-d8	82	65-1 <i>2</i> 9				
4-Bromofluorobenzene	80	55-121				

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-103-15'					
Laboratory ID:	05-064-15					
Dichlorodifluoromethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Chloromethane	ND	0.0046	EPA 8260	5-10-11	5-10-11	
Vinyl Chloride	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Bromomethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Chloroethane	ND	0.0046	EPA 8260	5-10-11	5-10-11	
Trichlorofluoromethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Acetone	0.0082	0.0046	EPA 8260	5-10-11	5-10-11	
Iodomethane	ND	0.0046	EPA 8260	5-10-11	5-10-11	
Carbon Disulfide	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Methylene Chloride	ND	0.0046	EPA 8260	5-10-11	5-10-11	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Methyl t-Butyl Ether	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Vinyl Acetate	ND	0.0046	EPA 8260	5-10-11	5-10-11	
2,2-Dichloropropane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
2-Butanone	ND	0.0046	EPA 8260	5-10-11	5-10-11	
Bromochloromethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Chloroform	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Carbon Tetrachloride	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,1-Dichloropropene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Benzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2-Dichloroethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Trichloroethene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2-Dichloropropane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Dibromomethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Bromodichloromethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260	5-10-11	5-10-11	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Methyl Isobutyl Ketone	ND	0.0046	EPA 8260	5-10-11	5-10-11	
Toluene	ND	0.0046	EPA 8260	5-10-11	5-10-11	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260	5-10-11	5-10-11	

Project: 6552

VOLATILES by EPA 8260B page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-103-15'		otou	. roparoa	maryzou	1 1090
Laboratory ID:	05-064-15					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Tetrachloroethene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,3-Dichloropropane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
2-Hexanone	ND	0.0046	EPA 8260	5-10-11	5-10-11	
Dibromochloromethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2-Dibromoethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Chlorobenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,1,1,2-Tetrachioroethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Ethylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
m,p-Xylene	ND	0.0018	EPA 8260	5-10-11	5-10-11	
o-Xylene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Styrene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Bromoform	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Isopropylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Bromobenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260	5-10-11	5-10-11	
n-Propylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
2-Chlorotoluene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
4-Chlorotoluene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,3,5-Trimethylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
tert-Butylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2,4-Trimethylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
sec-Butylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
p-Isopropyltoluene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
n-Butylbenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2-Dibromo-3-chloropropane		0.0046	EPA 8260	5-10-11	5-10-11	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Hexachlorobutadiene	ND	0.0046	EPA 8260	5-10-11	5-10-11	
Naphthalene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260	5-10-11	5-10-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	69	63-127				
Toluene-d8	82	65-129				
4-Bromofluorobenzene	82	55-121				

Project: 6552

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

Matrix: Soil Units: mg/kg

Analyto	Result	PQL	Method	Date	Date	Elege
Analyte	nesun	FGL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0510S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Chloromethane	ND	0.0050	EPA 8260	5-10-11	5-10-11	
Vinyl Chloride	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Bromomethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Chloroethane	ND	0.0050	EPA 8260	5-10-11	5-10-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Acetone	ND	0.0050	EPA 8260	5-10-11	5-10-11	
lodomethane '	ND	0.0050	EPA 8260	5-10-11	5-10-11	
Carbon Disulfide	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Methylene Chloride	ND	0.0050	EPA 8260	5-10-11	5-10-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Vinyl Acetate	ND	0.0050	EPA 8260	5-10-11	5-10-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
2-Butanone	ND	0.0050	EPA 8260	5-10-11	5-10-11	
Bromochloromethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Chloroform	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Carbon Tetrachloride	ND	0. 0 010	EPA 8260	5-10-11	5-10-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Benzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Trichloroethene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Dibromomethane	ND .	0.0010	EPA 8260	5-10-11	5-10-11	
Bromodichloromethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	5-10-11	5-10-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	5-10-11	5-10-11	
Toluene	ND	0.0050	EPA 8260	5-10-11	5-10-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	5-10-11	5-10-11	

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

A a b. d.a	Do ovilé	DOL	Adada ad	Date	Date	Flores
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0510S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Tetrachloroethene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
2-Hexanone	ND	0.0050	EPA 8260	5-10-11	5-10-11	
Dibromochloromethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Chlorobenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Ethylbenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
m,p-Xylene	ND	0.0020	EPA 8260	5-10-11	5-10-11	
o-Xylene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Styrene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Bromoform	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Isopropylbenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Bromobenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	5-10-11	5-10-11	
n-Propylbenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2,4-Trimethylbenzene	ND	0.0 0 10	EPA 8260	5-10-11	5-10-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
n-Butylbenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	5-10-11	5-10-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	5-10-11	5-10-11	
Naphthalene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	5-10-11	5-10-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	75	63-127				
Toluene-d8	87	65-129				
4-Bromofluorobenzene	84	55-121				

Project: 6552

VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS			-							
Laboratory ID:	SB05	10S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0488	0.0466	0.0500	0.0500	98	93	70-130	5	19	
Benzene	0.0392	0.0402	0.0500	0.0500	78	80	70-125	3	15	
Trichloroethene	0.0490	0.0509	0.0500	0.0500	98	102	70-122	4	14	
Toluene	0.0464	0.0466	0.0500	0.0500	93	93	73-120	0	16	
Chlorobenzene	0.0464	0.0470	0.0500	0.0500	93	94	74-109	1	12	
Surrogate:										
Dibromofluoromethane					69	69	63-127			
Toluene-d8					<i>7</i> 9	<i>78</i>	65-129			
4-Bromofluorobenzene					<i>77</i>	77	55-121			

Project: 6552

PAHs by EPA 8270D/SIM (with silica gel clean-up)

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-102-10'					
Laboratory ID:	05-064-07					
Naphthalene	0.011	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
2-Methylnaphthalene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
1-Methylnaphthalene	0.0097	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Acenaphthylene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Acenaphthene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Fluorene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Phenanthrene	0.026	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Anthracene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Fluoranthene	0.032	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Pyrene	0.051	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Benzo[a]anthracene	0.0093	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
- Chrysene	0.011	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Benzo[b]fluoranthene	0.0084	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Benzo(j,k)fluoranthene	0.0087	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Benzo[a]pyrene	0.014	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
indeno(1,2,3-c,d)pyrene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270/SIM	5-18-11	5-19-11	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	59	43 - 109				
Pyrene-d10	72	38 - 128				
Terphenyl-d14	61	33 - 119				

Project: 6552

PAHs by EPA 8270D/SIM (with silica gel clean-up)

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B-103-10'					
Laboratory ID:	05-064-13					
Naphthalene	0.019	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
2-Methylnaphthalene	ND	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
1-Methylnaphthalene	ND	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Acenaphthylene	ND	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Acenaphthene	0.0084	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Fluorene	ND	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Phenanthrene	0.039	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Anthracene	0.011	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Fluoranthene	0.070	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Pyrene	0.11	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Benzo[a]anthracene	0.035	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Chrysene	0.046	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
-Benzo[b]fluoranthene	0.039	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Benzo(j,k)fluoranthene	0.035	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
-Benzo[a]pyrene	0.067	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Indeno(1,2,3-c,d)pyrene	0.030	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Dibenz[a,h]anthracene	0.0092	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Benzo[g,h,i]perylene	0.038	0.0076	EPA 8270/SIM	5-18-11	5-19-11	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	64	43 - 109				
Pyrene-d10	<i>65</i>	38 - 128				
Terphenyl-d14	81	33 - 119				

0.1 mg/kg - MTCA A Cleanuplevel for all CPAHs B-103-10' = 0.2612

Project: 6552

PAHs by EPA 8270D/SIM METHOD BLANK QUALITY CONTROL (with silica gel clean-up)

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0518S1			·		
Naphthalene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	.,
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Acenaphthene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Fluorene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Phenanthrene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Anthracene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Fluoranthene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Pyrene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Chrysene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	5-18-11	5-18-11	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	62	43 - 109				
Pyrene-d10	<i>65</i>	38 - 128				
Terphenyl-d14	56	33 - 119				

Project: 6552

PAHs by EPA 8270D/SIM MS/MSD QUALITY CONTROL (with silica gel clean-up)

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES						-					
Laboratory ID:	05-10	07-02									
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0580	0.0562	0.0833	0.0833	ND	70	67	39 - 110	3	21	
Acenaphthylene	0.0697	0.0674	0.0833	0.0833	ND	84	81	47 - 124	3	21	
Acenaphthene	0.0625	0.0604	0.0833	0.0833	ND ·	75	73	50 - 120	3	20	
Fluorene	0.0588	0.0576	0.0833	0.0833	ND	71	69	52 - 126	2	21	
Phenanthrene	0.0547	0.0536	0.0833	0.0833	ND	66	64	41 - 130	2	22	
Anthracene	0.0669	0.0656	0.0833	0.0833	ND	80	79	48 - 124	2	23	
Fluoranthene	0.0605	0.0591	0.0833	0.0833	ND	73	71	40 - 137	2	23	
Pyrene	0.0615	0.0606	0.0833	0.0833	ND	74	73	36 - 139	1	23	
Benzo[a]anthracene	0.0570	0.0561	0.0833	0.0833	ND	68	67	43 - 127	2	21	
Chrysene	0.0571	0.0561	0.0833	0.0833	ND	69	67	41 - 133	2	19	
Benzo[b]fluoranthene	0.0575	0.0554	0.0833	0.0833	ND	69	67	40 - 132	4	25	
Benzo(j,k)fluoranthene	0.0584	0.0539	0.0833	0.0833	ND	70	65	35 - 132	8	25	
Benzo[a]pyrene	0.0634	0.0627	0.0833	0.0833	ND	76	75	37 - 131	1	26	
Indeno(1,2,3-c,d)pyrene	0.0580	0.0567	0.0833	0.0833	ND	70	68	39 - 134	2	23	
Dibenz[a,h]anthracene	0.0591	0.0579	0.0833	0.0833	ND	71	70	40 - 137	2	21	
Benzo[g,h,i]perylene	0.0580	0.0568	0.0833	0.0833	ND	70	68	35 - 135	2	22	
Surrogate:							-				
2-Fluorobipheny/						72	70	43 - 109			
Pyrene-d10						77	76	38 - 128			
Terphenyl-d14						71	68	33 - 119			

VOLATILE PETROLEUM HYDROCARBONS

Date Extracted:

5-9-11

Date Analyzed:

5-11-11

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

05-064-07

Client ID:

B-102-10'

VPH:	Results	PQL
Aliphatic C5-C6	ND	5.0
Aliphatic C6-C8	ND	5.0
Aliphatic C8-C10	ND	5.0
Aliphatic C10-C12	3400	5.8
Total Aliphatic:	3400	
Aromatic C8-C10	340	5.0
Aromatic C10-C12	820	5.8
Aromatic C12-C13	100	5.0
Total Aromatic:	1300	

Surrogate:

Percent Recovery

Control Limits

Fluorobenzene

84

68-124

Flags:

Project: 6552

VOLATILE PETROLEUM HYDROCARBONS

Date Extracted:

5-9-11

Date Analyzed:

5-11-11

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

05-064-13

Client ID:

B-103-10'

VPH:	Results	PQL
Aliphatic C5-C6	ND	5.0
Aliphatic C6-C8	ND	5.0
Aliphatic C8-C10	ND	5.0
Aliphatic C10-C12	1100	5.0
Total Aliphatic:	1100	
Aromatic C8-C10	95	5.0
Aromatic C10-C12	260	5.0
Aromatic C12-C13	52	5.0
Total Aromatic:	400	

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	79	68-124

Flags:

Project: 6552

VOLATILE PETROLEUM HYDROCARBONS METHOD BLANK QUALITY CONTROL

Date Extracted:

5-9-11

Date Analyzed:

5-11-11

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

MB0509S1

VPH:	Results	PQL
Aliphatic C5-C6	ND	5.0
Aliphatic C6-C8	ND	5.0
Aliphatic C8-C10	ND	5.0
Aliphatic C10-C12	ND	5.0
Total Aliphatic:	NA	
Aromatic C8-C10	ND	5.0
Aromatic C10-C12	ND	5.0
Aromatic C12-C13	ND	5.0
Total Aromatic:	NA	

Surrogate:	Percent Recovery	Control Limits
Fluorobenzene	91	68-124

Flags:

Project: 6552

VOLATILE PETROLEUM HYDROCARBONS DUPLICATE QUALITY CONTROL

Date Extracted:

5-9-11

Date Analyzed:

5-11-11

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

05-064-13

05-064-13 DUP

		Percent		Percent		
	Result	Recovery	Result	Recovery	PQL	RPD
VPH:						
Aliphatic C5-C6	ND	NA	ND	NA	5.0	NA
Aliphatic C6-C8	ND	NA	ND	NA	5.0	NA
Aliphatic C8-C10	ND	NA	ND	NA	5.0	NA
Aliphatic C10-C12	1080	NA	1080	NA	5.0	0
Total Aliphatic:	1080		1080			
Aromatic C8-C10	95.4	NA	95.4	NA	5.0	0
Aromatic C10-C12	255	NA	255	NA	5.0	0
Aromatic C12-C13	52.1	NA	51.9	NA	5.0	0
Total Aromatic:	403		402			

	Percent	Percent	Control
Surrogate:	Recovery	Recovery	Limits
Fluorobenzene	79	89	68-124

% MOISTURE

Date Analyzed: 5-10-11

Client ID	Lab ID	% Moisture
B-101-9'	05-064-02	22
B-101-14'	05-064-03	10
B-102-10'	05-064-07	14
B-102-15'	05-064-09	10
B-103-10'	05-064-13	12
B-103-15'	05-064-15	12



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-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 gas.
- 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



CLIENT:

OnSite Environmental Inc.

14648 NE 95th Street Redmond, WA 98052

ALS JOB#:

DATE:

5/18/2011

CLIENT CONTACT:

Dave Baumeister

ALS SAMPLE#:

1105071 -01

CLIENT PROJECT:

DATE RECEIVED:

5/16/2011

Proj # 6552 / Lab Ref# 05-064

COLLECTION DATE:

5/6/2011 11:32

CLIENT SAMPLE ID

B-102-10'

WDOE ACCREDITATION:

C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
>C8-C10 Aliphatics	NWEPH	37	5.0	1	MG/KG	05/17/2011	EBS
>C10-C12 Aliphatics	NWEPH	650	5.0	1	MG/KG	05/17/2011	EBS
>C12-C16 Aliphatics	NWEPH	120	5.0	1	MG/KG	05/17/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS
>C8-C10 Aromatics	NWEPH	5.2	5.0	1	MG/KG	05/18/2011	EBS
>C10-C12 Aromatics	NWEPH	18	5.0	1	MG/KG	05/18/2011	EBS
>C12-C16 Aromatics	NWEPH	13	5.0	1	MG/KG	05/18/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS
						ANALYSIS A	ANALYSIS
SURROGATE	METHOD	%REC				DATE	BY
C25	NWEPH	87.0				05/17/2011	EBS
p-Terphenyl	NWEPH	90.0				05/18/2011	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT:

OnSite Environmental Inc.

14648 NE 95th Street

Redmond, WA 98052

Dave Baumeister

CLIENT CONTACT: CLIENT PROJECT:

Proj # 6552 / Lab Ref# 05-064

CLIENT SAMPLE ID B-103-10' DATE:

5/18/2011

ALS JOB#:

1105071

ALS SAMPLE#:

-02 5/16/2011

DATE RECEIVED:

COLLECTION DATE:

5/6/2011 14:00

WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	NALYSIS BY
>C8-C10 Aliphatics	NWEPH	46	5.0	1	MG/KG	05/17/2011	EBS
>C10-C12 Aliphatics	NWEPH	590	5.0	1	MG/KG	05/17/2011	EBS
>C12-C16 Aliphatics	NWEPH	240	5.0	1	MG/KG	05/17/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS
>C21-C34 Aliphatics	NWEPH	46	5.0	1	MG/KG	05/17/2011	EBS
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS
>C10-C12 Aromatics	NWEPH	9.3	5.0	1	MG/KG	05/18/2011	EBS
>C12-C16 Aromatics	NWEPH	9.1	5.0	1	MG/KG	05/18/2011	· EBS
>C16-C21 Aromatics	NWEPH	33	5.0	1	MG/KG	05/18/2011	EBS
>C21-C34 Aromatics	NWEPH	93	5.0	11	MG/KG	05/18/2011	EBS
						ANALYSIS A	NALYSIS
SURROGATE	METHOD	%REC				DATE	BY
C25	NWEPH	98.0				05/17/2011	EBS
p-Terphenyl	NWEPH	93.0				05/18/2011	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT:

OnSite Environmental Inc.

14648 NE 95th Street

DATE:

5/18/2011

Redmond, WA 98052

ALS SDG#:

1105071

CLIENT CONTACT:

CLIENT PROJECT:

Proj # 6552 / Lab Ref# 05-064

Dave Baumeister

WDOE ACCREDITATION:

C601

LABORATORY BLANK RESULTS

MBLK-5172011 - Batch R73504 - Soil by NWEPH

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS
>C10-C12 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	05/17/2011	EBS

MBLK-5182011 - Batch R73509 - Soil by NWEPH

			REPORTING	DILUTION		ANALYSIS A	NALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS
>C10-C12 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS
>C12-C16 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	05/18/2011	EBS



CLIENT:

OnSite Environmental Inc.

14648 NE 95th Street

ALS SDG#:

5/18/2011

Redmond, WA 98052

WDOE ACCREDITATION:

DATE:

1105071 C601

CLIENT CONTACT:

Dave Baumeister

CLIENT PROJECT:

Proj # 6552 / Lab Ref# 05-064

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R73504 - Soil by NWEPH

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS Date	ANALYSIS BY
>C8-C10 Aliphatics - BS	NWEPH	84.0			05/17/2011	EBS
>C8-C10 Aliphatics - BSD	NWEPH	83.0	1		05/17/2011	EBS
>C10-C12 Aliphatics - BS	NWEPH	90.0			05/17/2011	EBS
>C10-C12 Aliphatics - BSD	NWEPH	92.0	2		05/17/2011	EBS
>C12-C16 Aliphatics - BS	NWEPH	96.0	*		05/17/2011	EBS
>C12-C16 Aliphatics - BSD	NWEPH	100	4		05/17/2011	EBS
>C16-C21 Aliphatics - BS	NWEPH	95.0			05/17/2011	EBS
>C16-C21 Aliphatics - BSD	NWEPH	99.0	4		05/17/2011	EBS
>C21-C34 Aliphatics - BS	NWEPH	82.0			05/17/2011	EBS
>C21-C34 Aliphatics - BSD	NWEPH	83.0	1		05/17/2011	EBS

ALS Test Batch ID: R73509 - Soil by NWEPH

					ANALYSIS	ANALYSIS
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	DATE	BY
>C8-C10 Aromatics - BS	NWEPH	89.0			05/18/2011	EBS
>C8-C10 Aromatics - BSD	NWEPH	87.0	2		05/18/2011	EBS
>C10-C12 Aromatics - BS	NWEPH	91.0			05/18/2011	EBS
>C10-C12 Aromatics - BSD	NWEPH	91.0	0		05/18/2011	EBS
>C12-C16 Aromatics - BS	NWEPH	96.0			05/18/2011	EBS
>C12-C16 Aromatics - BSD	NWEPH	98.0	2		05/18/2011	EBS
>C16-C21 Aromatics - BS	NWEPH	96.0			05/18/2011	EBS
>C16-C21 Aromatics - BSD	NWEPH	97.0	1		05/18/2011	EBS
>C21-C34 Aromatics - BS	NWEPH	81.0			05/18/2011	EBS
>C21-C34 Aromatics - BSD	NWEPH	81.0	0		05/18/2011	EBS

APPROVED BY

Laboratory Director

Page _____ of ____

OnSite Environmental Inc.

Laboratory Reference #: 05-064 14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881 Project Manager: David Baumeister Subcontract Laboratory: ALS Turnaround Request: email: dbaumelster@onsite-env.com 2 Day 3 Day 1 Day Project Number: 6552 Contact Person: Standard Address: Project Name: Other: Phone Number:

	Date Sampled	Time Sampled	Matrix	# of Cont		Requested Analysis	
Sample identification	5/6/11	1132	5	1	EPIT		
B-102-10' B-103-10'	J	1400	L.	J			
B-103-10'							
				Date	Time	Comments/Special Instruct	ions
Signature		e Tu		SILLI	1530	A CONTRACTOR OF THE PROPERTY O	
linguished by		<u> </u>		5/16/11	1530		
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elinquished by:	ALS			15/6/11	133		
eceived by:							
elinquished by:							

Onsite Environmental Inc

Chain of Custody

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Page		O	 Chan	

Environmental Inc.	Turnaround Reque (in working days)	st		Labo	orat	ory	Nu	mb	er:										0	5.	0	64	
14648 NE 95iti Street • Redmond, WA 98052 Phone: (425) 883-3681 • www.onsile-env.com Company:	(Check One)						•											,					
Tara Associatos	Same Day	1 Day											NIS.		ne)								
Project Number: 6552	2 Days	3 Days										81A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	otal RCRA / MTCA Metals (circle one)								
Project Name:	Standard (7 Days)	-						260B	5	evel)		es 80	cides	ides (tals (964						
Project Manager:	(TPH analysis 5 Day	/s)	Mers					iles 8	ts)Q(st	l-wol)		sticid	Pesti	erbic	Y We		lse) 1						
Chek Lie	l n			a E			99	Vokat	827C	/SIM		ine Pe	horus	Acid	/MTC		grea	I	I				
Sampled by: Nicolas R. Hottman	(other)			8	Š	Ă	ss 826	nated	statiles nw-leve	32700	8082	ochlor	soude	nated	CRA	Metal	oil an	12	9				isture
Lab ID Sample Identification	Date Time Sampled Sampled	Matrix	NUMBER OF CONTAINERS	NWTPH-GX/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organ	Chloric	Total F	TCLP Metals	HEM (oil and grease) 1664	7	,	`			% Moisture
1 B-101 -4'	5/6/118:44	56	5														ļ						
2 B-101 -9'	8:55				X		X																X
3 8-101 - 14'	9:08				X		X																凶
4 6-101 - 16.5'	9:28																ļ					-	
5 B-101 - F6.5'	9:38			`						-									_		_	-	
6 B-102 -5'	11:122									<u> </u>		ļ	ļ				-		-	_			
7 8-102 -101	11:32				X		X			8		<u> </u>	<u> </u>			-	-	8	8				X
8 8.102 -12.5	11:40			_					<u> </u>	-				-			ļ		_	-	-		-
9 8-102 -15'	11:48				X		X		-	-			_	<u> </u>			-				_	-	X
10 B-102 -17.5'	11:55	V	W						<u></u>			(C		lectri	totion	<u> </u>	<u></u>						\perp
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 20, 2011

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

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1106-112

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on June 13, 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

Project: 6552

Case Narrative

Samples were collected on June 13, 2011 and received by the laboratory on June 13, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

NWTPH Gx and Volatiles EPA 8260B Analysis

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

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

NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	VP-1-18'					
Laboratory ID:	06-112-01					
Gasoline	ND	5.8	NWTPH-Gx	6-14-11	6-17-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	80	68-124				
Client ID:	MW-201-2.5'					
Laboratory ID:	06-112-03					
Gasoline	15	6.9	NWTPH-Gx	6-14-11	6-17-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	81	68-124				
Client ID:	MW-201-5'					
Laboratory ID:	06-112-04					
Gasoline	10	6.0	NWTPH-Gx	6-14-11	6-17-11	· · · · · · · · · · · · · · · · · · ·
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	81	68-124				
Client ID:	VP-2-18"		•			
Laboratory ID:	06-112-07					
Gasoline	140	13	NWTPH-Gx	6-14-11	6-17-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	68-124				
Client ID:	VP-2-3.5'					
Laboratory ID:	06-112-08					
Gasoline	9.7	6.6	NWTPH-Gx	6-14-11	6-17-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	78	68-124				
Client ID:	VP-3-18"					
Laboratory ID:	06-112-09					
Gasoline	ND	5.5	NWTPH-Gx	6-14-11	6-17-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	80	68-124				

Project: 6552

NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	VP-3-4'					
Laboratory ID:	06-112-10					
Gasoline	ND	5.7	NWTPH-Gx	6-14-11	6-17-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	81	68-124				

Project: 6552

NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK			.:	•		
Laboratory ID:	MB0614S1					
Gasoline	ND	5.0	NWTPH-Gx	6-14-11	6-15-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	68-124				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	06-10	06-01								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	, ,,,
Surrogate:										
Fluorobenzene						86 86	68-124			

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-201-2.5'					
Laboratory ID:	06-112-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Chloromethane	ND	0.0065	EPA 8260	6-14-11	6-14-11	
Vinyl Chloride	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Bromomethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Chloroethane	ND	0.0065	EPA 8260	6-14-11	6-14-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Acetone	0.037	0.0065	EPA 8260	6-14-11	6-14-11	
lodomethane	ND	0.0065	EPA 8260	6-14-11	6-14-11	
Carbon Disulfide	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Methylene Chloride	ND	0.0065	EPA 8260	6-14-11	6-14-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Vinyl Acetate	ND	0.0065	EPA 8260	6-14-11	6-14-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
2-Butanone	ND	0.0065	EPA 8260	6-14-11	6-14-11	
Bromochloromethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Chloroform	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Benzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Trichloroethene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Dibromomethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Bromodichloromethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260	6-14-11	6-14-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Methyl Isobutyl Ketone	ND	0.0065	EPA 8260	6-14-11	6-14-11	
Toluene	ND	0.0065	EPA 8260	6-14-11	6-14-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	6-14-11	6-14-11	

Project: 6552

VOLATILES by EPA 8260B page 2 of 2

			•	Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-201-2.5'					
Laboratory ID:	06-112-03					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Tetrachloroethene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
2-Hexanone	ND	0.0065	EPA 8260	6-14-11	6-14-11	• .
Dibromochloromethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2-Dibromoethane	ND -	0.0013	EPA 8260	6-14-11	6-14-11	
Chlorobenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Ethylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
m,p-Xylene	ND	0.0026	EPA 8260	6-14-11	6-14-11	
o-Xylene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Styrene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Bromoform	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Isopropylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Bromobenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	6-14-11	6-14-11	
n-Propylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
tert-Butylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
sec-Butylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
p-Isopropyltoluene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
n-Butylbenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2-Dibromo-3-chloropropane		0.0065	EPA 8260	6-14-11	6-14-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Hexachlorobutadiene	ND	0.0065	EPA 8260	6-14-11	6-14-11	
Naphthalene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	6-14-11	6-14-11	
Surrogate:	Percent Recovery	Control Limits		3 17 11	V 17 11	
Dibromofluoromethane	77	63-127				
Toluene-d8	85	65-129				
4-Bromofluorobenzene	85	55-121				
4-DIOITIOHUOLOBEHZEHE	00	00-121				

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	VP-2-18"					
Laboratory ID:	06-112-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Chloromethane	ND	0.0055	EPA 8260	6-14-11	6-14-11	
Vinyl Chloride	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Bromomethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Chloroethane	ND	0.0055	EPA 8260	6-14-11	6-14-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Acetone	0.0056	0.0055	EPA 8260	6-14-11	6-14-11	
lodomethane	ND	0.0055	EPA 8260	6-14-11	6-14-11	
Carbon Disulfide	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Methylene Chloride	ND	0.0055	EPA 8260	6-14-11	6-14-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Vinyl Acetate	ND	0.0055	EPA 8260	6-14-11	6-14-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
2-Butanone	ND	0.0055	EPA 8260	6-14-11	6-14-11	
Bromochioromethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Chloroform	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Benzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Trichloroethene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Dibromomethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Bromodichloromethane	ND	0.0011	EPA 8260	6-14-11	6-14-11	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260	6-14-11	6-14-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260	6-14-11	6-14-11	
Toluene	ND	0.0055	EPA 8260	6-14-11	6-14-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-14-11	6-14-11	

Project: 6552

VOLATILES by EPA 8260B page 2 of 2

Client ID: VP Laboratory ID: 06- 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene n-Butylbenzene n-Butylbenzene	2-18" 112-07 ND	0.0011 0.0011 0.0011 0.0055 0.0011 0.0011	EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260	6-14-11 6-14-11 6-14-11 6-14-11 6-14-11	6-14-11 6-14-11 6-14-11	Flags
Laboratory ID: 06- 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene b-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene n-Butylbenzene n-Butylbenzene n-Butylbenzene	I 12-07 ND	0.0011 0.0011 0.0055 0.0011 0.0011	EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260	6-14-11 6-14-11 6-14-11 6-14-11	6-14-11 6-14-11 6-14-11	
1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene Dispromoform Isopropylbenzene 1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	ND ND ND ND ND ND ND ND	0.0011 0.0011 0.0055 0.0011 0.0011	EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260	6-14-11 6-14-11 6-14-11 6-14-11	6-14-11 6-14-11 6-14-11	
Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene p-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene n-Butylbenzene 1-Butylbenzene 1-Butylbenzene 1-Butylbenzene 1-Butylbenzene 1-Butylbenzene 1-Butylbenzene 1-Butylbenzene 1-Butylbenzene	ND ND ND ND ND ND ND	0.0011 0.0011 0.0055 0.0011 0.0011	EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260	6-14-11 6-14-11 6-14-11 6-14-11	6-14-11 6-14-11 6-14-11	
1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene Dibromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane Isopropylbenzene 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,3-Trimethylbenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene	ND ND ND ND ND ND	0.0011 0.0055 0.0011 0.0011 0.0011	EPA 8260 EPA 8260 EPA 8260 EPA 8260	6-14-11 6-14-11 6-14-11	6-14-11 6-14-11	
2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene n-Butylbenzene	ND ND ND ND ND ND	0.0055 0.0011 0.0011 0.0011	EPA 8260 EPA 8260 EPA 8260	6-14-11 6-14-11	6-14-11	
Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 0. 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0. 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene n-Butylbenzene	ND ND ND ND ND	0.0011 0.0011 0.0011	EPA 8260 EPA 8260	6-14-11		
1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene O-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 0.2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 0.1,3-Dichlorobenzene 0.1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene	ND ND ND ND	0.0011 0.0011	EPA 8260		0 4 4 4 4	
Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene 0-Xylene Styrene Stromoform sopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2-Chlorotoluene 1,3,5-Trimethylbenzene ert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene 1-Butylbenzene 1-Butylbenzene	ND ND ND	0.0011		61111	6-14-11	
1,1,1,2-Tetrachloroethane Ethylbenzene m,p-Xylene b-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene I,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene 1,2-Dichlorobenzene 1-Butylbenzene	ND ND		EDA COCO	6-14-11	6-14-11	
Ethylbenzene m,p-Xylene b-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene	ND	0.0044	EPA 8260	6-14-11	6-14-11	
m,p-Xylene b-Xylene Styrene Styrene Bromoform sopropylbenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 0.2-Chlorotoluene 1,3,5-Trimethylbenzene ert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0.1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene 1,2-Dichlorobenzene 1-Butylbenzene		0.0011	EPA 8260	6-14-11	6-14-11	
p-Xylene Styrene Styre	۷D	0.0011	EPA 8260	6-14-11	6-14-11	
Styrene Bromoform Isopropylbenzene 0. Bromobenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene n-Butylbenzene		0.0022	EPA 8260	6-14-11	6-14-11	
Bromoform Isopropylbenzene Bromobenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,8-Upichlorobenzene 1,8-Dichlorobenzene 1,8-Dichlorobenzene 1,8-Dichlorobenzene 1,8-Dichlorobenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
sopropylbenzene Bromobenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
Bromobenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene eert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0.1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene	0034	0.0011	EPA 8260	6-14-11	6-14-11	
1,2,3-Trichloropropane 1,-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene ert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0.1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene ert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0.1,3-Dichlorobenzene 0-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene ert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0.1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
4-Chlorotoluene 1,3,5-Trimethylbenzene ert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0.1,3-Dichlorobenzene 0-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene	0040	0.0011	EPA 8260	6-14-11	6-14-11	
1,3,5-Trimethylbenzene ert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 0.1,3-Dichlorobenzene 0-isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
ert-Butylbenzene I,2,4-Trimethylbenzene sec-Butylbenzene I,3-Dichlorobenzene o-Isopropyltoluene I,4-Dichlorobenzene I,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene p-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene o-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
sec-Butylbenzene 0. 1,3-Dichlorobenzene b-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,3-Dichlorobenzene p-isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene	0048	0.0011	EPA 8260	6-14-11	6-14-11	
o-Isopropyltoluene 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,2-Dichlorobenzene n-Butylbenzene	ND	0.0011	EPA 8260	6-14-11	6-14-11	
	ND	0.0011	EPA 8260	6-14-11	6-14-11	
_	ND	0.0011	EPA 8260	6-14-11	6-14-11	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260	6-14-11	6-14-11	
	ND	0.0011	EPA 8260	6-14-11	6-14-11	
	ND	0.0055	EPA 8260	6-14-11	6-14-11	
	ND	0.0011	EPA 8260	6-14-11	6-14-11	
-	ND	0.0011	EPA 8260	6-14-11	6-14-11	
	Recovery	Control Limits	_, , , , , ,	<u> </u>	V 1→-11	
-		63-127				
	-	65-129				
4-Bromofluorobenzene	76 81	55-121				

Project: 6552

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

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB6014S1					<u> </u>
Dichlorodifluoromethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Chloromethane	ND	0.0050	EPA 8260	6-14-11	6-14-11	
Vinyl Chloride	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Bromomethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Chloroethane	ND	0.0050	EPA 8260	6-14-11	6-14-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Acetone	ND	0.0050	EPA 8260	6-14-11	6-14-11	
lodomethane	ND	0.0050	EPA 8260	6-14-11	6-14-11	
Carbon Disulfide	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Methylene Chloride	ND	0.0050	EPA 8260	6-14-11	6-14-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Vinyl Acetate	ND	0.0050	EPA 8260	6-14-11	6-14-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
2-Butanone	ND	0.0050	EPA 8260	6-14-11	6-14-11	
Bromochloromethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Chloroform	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Benzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Trichloroethene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Dibromomethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Bromodichloromethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	6-14-11	6-14-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	6-14-11	6-14-11	
Toluene	ND	0.0050	EPA 8260	6-14-11	6-14-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-14-11	6-14-11	

Project: 6552

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

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
	MD004.404					
Laboratory ID:	MB6014S1	0.0010	EDA 0260	C 4 4 4 4	C 4 4 4 4	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Tetrachloroethene	ND	0.0010	EPA 8260	6-14-11	6-14-11	-
1,3-Dichloropropane	· ND	0.0010	EPA 8260	6-14-11	6-14-11	
2-Hexanone	ND	0.0050	EPA 8260	6-14-11	6-14-11	
Dibromochloromethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Chlorobenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Ethylbenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
m,p-Xylene	ND	0.0020	EPA 8260	6-14-11	6-14-11	
o-Xylene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Styrene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Bromoform	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Isopropylbenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Bromobenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	6-14-11	6-14-11	
n-Propylbenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
·	ND	0.0010	EPA 8260	6-14-11	6-14-11	
n-Butylbenzene		0.0010	EPA 8260	6-14-11	6-14-11	
1,2-Dibromo-3-chloropropane	ND ND	0.0030	EPA 8260			
1,2,4-Trichlorobenzene				6-14-11	6-14-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	6-14-11	6-14-11	
Naphthalene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	6-14-11	6-14-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	79	63-127				
Toluene-d8	86	65-129				
4-Bromofluorobenzene	87	55-121				

Project: 6552

VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

Omo. mg/ng					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Reco	very	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB60	1481								
	SB	SBD	SB	SBD	SB	SBD	-			
1,1-Dichloroethene	0.0536	0.0524	0.0500	0.0500	107	105	70-130	2	19	
Benzene	0.0478	0.0476	0.0500	0.0500	96	95	70-125	0	15	
Trichloroethene	0.0514	0.0490	0.0500	0.0500	103	98	70-122	5	14	
Toluene	0.0498	0.0486	0.0500	0.0500	100	97	73-120	2.	16	
Chlorobenzene	0.0467	0.0459	0.0500	0.0500	93	92	74-109	2	12	
Surrogate:										
Dibromofluoromethane					74	71	63-127			
Toluene-d8					81	79	65-129			
4-Bromofluorobenzene					80	78	55-121			

% MOISTURE

Date Analyzed:

6-14-11

Client ID	Lab ID	% Moisture
VP-1-18"	06-112-01	12
MW-201-2.5'	06-112-03	16
MW-201-5'	06-112-04	14
VP-2-18"	06-112-07	15
VP-2-3.5'	06-112-08	14
VP-3-18"	06-112-09	. 11
VP-3-4'	06-112-10	13



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- 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

A. Onsite		Chá	in o	of (ĴU	st	Oď	ly											Pi	age _		_of _			
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Tur (i	naround Requ n working day	iest s)		L	abo	rate	ory	Νι	ımt	er:	~~~									Ö	6	1	ĺ	2
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ella Associatas	Sar	ne Day	t Day												MIS		(au								
Project Number: 6552	☐ 2 D	ays i	☐ 3 Days											A16	270D/	151A	icle o								
Project Name:	Sta	ndard (7 Days)								260B	-	(jaxel))08 sa	ides 8	des 8	tals (c		20						
Project Manager: Chuck Lie		H analysis 5 D		Number of Containers	۵	зтех			89	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)		Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)		HEM (oil and grease) 1664			***************************************			
Sampled by: Nicolas R. Hottman		(other)		ar of C	무무	H-Gx/E	ő	õ	ss 826	nated	platiles w-leve	3270D	3082	chlori	dsoyd	ated /	CRA/	Metals	oil and						sture
Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	_	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Haloge	Semivo (with to	PAHs 8	PCBs 8082	Organo	Organo	Chlorin	Total R	TCLP Metals	HEM (c			\perp			% Moisture
1 VP-I -18"	6/s/11	9:15	5	6			X																		\rightarrow
2 VP-1 -45' 3 MW-201 -2.5'		9:40										.,													
3 mw-201 -2,5'		10:40					X		X																X
4 MW-201 -5'		10:47					X																		X
5 MW-201 -10'		10:55												_					<u> </u>		_	_			_
6 MW-201 -15'		11:05		100											<u> </u>									\perp	
7 VP-2 -18"		12:12					X		X																X
8 VP-2 -3.5'		12:40					X																		
9 VP-3 -18"		13:00					X																		
10 VP-3 -4"	1	13115	$\overline{\mathbf{V}}$				X	Ì																	<u> </u>
Signature	G	ompany			er ver "e	Date	· · · · · · · · · · · · · · · · · · ·		Time		1.5	Cor	nmen	ts/Sp	ecial	Instr	uction	IS							
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Data Package: Level III Level IV Electronic Data Deliverables (EDDs)

Chromatograms with final report

Reviewed/Date

Reviewed/Date



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

May 9, 2011

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

Re:

Analytical Data for Project 6552 Laboratory Reference No. 1104-219

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on April 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

Project: 6552

Case Narrative

Samples were collected on April 29, 2011 and received by the laboratory on April 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.

NWTPH-Gx

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	04-219-01					
Gasoline	1100	100	NWTPH-Gx	5-2-11	5-2-11	*
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	76	73-121				
Client ID:	MW7					
Laboratory ID:	04-219-02					
Gasoline	ND	100	NWTPH-Gx	5-2-11	5-2-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	79	73-121				
Client ID:	MW6					
Laboratory ID:	04-219-03					
Gasoline	160	100	NWTPH-Gx	5-2-11	5-2-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	75	73-121				

Project: 6552

NWTPH-Gx QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502W1		,			
Gasoline	ND	100	NWTPH-Gx	5-2-11	5-2-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	77	73-121				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	04-20	06-02								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:	,									
Fluorobenzene						77 77	73-121			

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

Matrix: Water Units: mg/L (ppm)

Offics. Hight (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW1		7.7		-	
Laboratory ID:	04-219-01					
Diesel Range Organics	ND	0.30	NWTPH-Dx	5-5-11	5-5-11	U1
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	5-5-11	5-5-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				
Client ID:	MW7					
Laboratory ID:	04-219-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	5-5-11	5-5-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	5-5-11	5-5-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	99	50-150				
Client ID:	MW6					
Laboratory ID:	04-219-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	5-5-11	5-5-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	5-5-11	5-5-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	97	50-150				

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:	MB0505W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	5-5-11	5-5-11	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	5-5-11	5-5-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	87	50-150				

Analyte	Res	sult		cent overy	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-21	9-01						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	U1
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			90	97	50-150			

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:	MW1					
Laboratory ID:	04-219-01					
Dichlorodifluoromethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Chloromethane	ND	2.0	EPA 8260	5-5-11	5-5-11	
Vinyl Chloride	ND	0.40	EPA 8260	5-5-11	5-5-11	
Bromomethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Chloroethane	ND	2.0	EPA 8260	5-5-11	5-5-11	
Trichlorofluoromethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethene	ND	0.40	EPA 8260	5-5-11	5-5-11	
Acetone	ND	10	EPA 8260	5-5-11	5-5-11	
lodomethane	ND	2.0	EPA 8260	5-5-11	5-5-11	
Carbon Disulfide	ND	0.40	EPA 8260	5-5-1 1	5-5-11	
Methylene Chloride	ND	2.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260	5-5-11	5-5-11	
Methyl t-Butyl Ether	ND	0.40	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Vinyl Acetate	ND	4.0	EPA 8260	5-5-11	5-5-11	
2,2-Dichloropropane	ND	0.40	EPA 8260	5-5-11	5-5-11	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260	5-5-11	5-5-11	
2-Butanone	ND	10	EPA 8260	5-5-11	5-5-11	
Bromochloromethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Chloroform	ND	0.40	EPA 8260	5-5-11	5-5-11	
1,1,1-Trichloroethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Carbon Tetrachloride	ND	0.40	EPA 8260	5-5-11	5-5-11	
1,1-Dichloropropene	ND	0.40	EPA 8260	5-5-11	5-5-11	
Benzene	0.56	0.40	EPA 8260	5-5-11	5-5-11	
1,2-Dichloroethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Trichloroethene	ND	0.40	EPA 8260	5-5-11	5-5-11	
1,2-Dichloropropane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Dibromomethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
Bromodichloromethane	ND	0.40	EPA 8260	5-5-11	5-5-11	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260	5-5-11	5-5-11	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260	5-5-11	5-5-11	
Methyl Isobutyl Ketone	ND	4.0	EPA 8260	5-5-11	5-5-11	
Toluene	ND	2.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260	5-5-11	5-5-11	

VOLATILES by EPA 8260B page 2 of 2

Analyte Result PQL Method Prepared Analyzed Client ID: MW1 Laboratory ID: 04-219-01 1,1,2-Trichloroethane ND 0.40 EPA 8260 5-5-11 5-5-11 Tetrachloroethene ND 0.40 EPA 8260 5-5-11 5-5-11 1,3-Dichloropropane ND 0.40 EPA 8260 5-5-11 5-5-11 2-Hexanone ND 4.0 EPA 8260 5-5-11 5-5-11 Dibromochloromethane ND 0.40 EPA 8260 5-5-11 5-5-11 1,2-Dibromoethane ND 0.40 EPA 8260 5-5-11 5-5-11 1,1,1,2-Tetrachloroethane ND 0.40 EPA 8260 5-5-11 5-5-11 Ethylbenzene 27 0.40 EPA 8260 5-5-11 5-5-11 m,p-Xylene 47 0.80 EPA 8260 5-5-11 5-5-11 o-Xylene 2.6 0.40 EPA 8260 5-5-11 5-5-11 Styrene <t< th=""><th></th></t<>	
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Bromobenzene ND 0.40 EPA 8260 5-5-11 5-5-11	
1,1,2,2-Tetrachloroethane ND 0.40 EPA 8260 5-5-11 5-5-11	
1,2,3-Trichloropropane ND 0.40 EPA 8260 5-5-11 5-5-11	
n-Propylbenzene 63 0.40 EPA 8260 5-5-11 5-5-11	
2-Chlorotoluene ND 0.40 EPA 8260 5-5-11 5-5-11	
4-Chlorotoluene ND 0.40 EPA 8260 5-5-11 5-5-11	
1,3,5-Trimethylbenzene 0.66 0.40 EPA 8260 5-5-11 5-5-11	
tert-Butylbenzene 0.52 0.40 EPA 8260 5-5-11 5-5-11	
1,2,4-Trimethylbenzene 3.7 0.40 EPA 8260 5-5-11 5-5-11	
sec-Butylbenzene 5.6 0.40 EPA 8260 5-5-11 5-5-11	
1,3-Dichlorobenzene ND 0.40 EPA 8260 5-5-11 5-5-11	
p-Isopropyltoluene ND 0.40 EPA 8260 5-5-11 5-5-11	
1,4-Dichlorobenzene ND 0.40 EPA 8260 5-5-11 5-5-11	
1,2-Dichlorobenzene ND 0.40 EPA 8260 5-5-11 5-5-11	
n-Butylbenzene 3.7 0.40 EPA 8260 5-5-11 5-5-11	
1,2-Dibromo-3-chloropropane ND 2.0 EPA 8260 5-5-11 5-5-11	
1,2,4-Trichlorobenzene ND 0.40 EPA 8260 5-5-11 5-5-11	
Hexachlorobutadiene ND 0.40 EPA 8260 5-5-11 5-5-11	
Naphthalene ND 2.0 EPA 8260 5-5-11 5-5-11	
1,2,3-Trichlorobenzene ND 0.40 EPA 8260 5-5-11 5-5-11	
Surrogate: Percent Recovery Control Limits	
Dibromofluoromethane 82 68-107	
Toluene-d8 87 73-102	
4-Bromofluorobenzene 88 65-104	

Project: 6552

VOLATILES by EPA 8260B page 1 of 2

Matrix: Water Units: ug/L

3				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW7					
Laboratory ID:	04-219-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Chloromethane	ND	1.0	EPA 8260	5-5-11	5-5-11	
Vinyl Chloride	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromomethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Chloroethane	ND	1.0	EPA 8260	5-5-11	5-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Acetone	ND	5.0	EPA 8260	5-5-11	5-5-11	
Iodomethane	ND	1.0	EPA 8260	5-5-11	5-5-11	
Carbon Disulfide	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methylene Chloride	ND	1.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Vinyl Acetate	ND	2.0	EPA 8260	5-5-11	5-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
(cis) 1,2-Dichloroethene	0.39	0.20	EPA 8260	5-5-11	5-5-11	
2-Butanone	ND	5.0	EPA 8260	5-5-11	5-5-11	
Bromochloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Chloroform	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Benzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Trichloroethene	0.22	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Dibromomethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	5-5-11	5-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	5-5-11	5-5-11	
Toluene	ND	1.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	

VOLATILES by EPA 8260B page 2 of 2

Client ID:					Date	Date	
Client ID:	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane	Client ID:	MW7					
Tetrachloroethene 0.27 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Hexanone ND 2.0 EPA 8260 5-5-11 5-5-11 Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene 0.32 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.40 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene	Laboratory ID:	04-219-02				÷	
1,3-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Hexanone ND 2.0 EPA 8260 5-5-11 5-5-11 Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Litylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.40 EPA 8260 5-5-11 5-5-11 Ethylene ND 0.40 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Brytene ND 0.20 EPA 8260 5-5-11 5-5-11 Brytene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 0.38	1,1,2-Trichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Hexanone	Tetrachloroethene	0.27	0.20	EPA 8260	5-5-11	5-5-11	
Dibromochloromethane	1,3-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dibromoethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-6-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene 0.32 0.20 EPA 8260 5-5-11 5-6-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-6-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-6-11 bryene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 0.38 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Isopropylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,2-Trichlorobluene	2-Hexanone	ND	2.0	EPA 8260	5-5-11	5-5-11	
Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene 0.32 0.20 EPA 8260 5-5-11 5-5-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,3-Tirichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Tirichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene </td <td>Dibromochloromethane</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	Dibromochloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene 0.32 0.20 EPA 8260 5-5-11 5-5-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 0.38 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hornobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene	1,2-Dibromoethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Ethylbenzene 0.32 0.20 EPA 8260 5-5-11 5-5-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Prival plance ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene <td>Chlorobenzene</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	Chlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 0.38 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Tichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Tichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene <td>1,1,1,2-Tetrachloroethane</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 0.38 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 <t< td=""><td>Ethylbenzene</td><td>0.32</td><td>0.20</td><td>EPA 8260</td><td>5-5-11</td><td>5-5-11</td><td></td></t<>	Ethylbenzene	0.32	0.20	EPA 8260	5-5-11	5-5-11	
Styrene	m,p-Xylene	ND	0.40	EPA 8260	5-5-11	5-5-11	
Bromoform ND	o-Xylene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Isopropylbenzene	Styrene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 n-Propylbenzene 0.26 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorofoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorofoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11	_	ND	1.0	EPA 8260	5-5-11	5-5-11	
Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Q-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11	Isopropylbenzene	0.38	0.20	EPA 8260	5-5-11	5-5-11	
1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 n-Propylbenzene 0.26 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5		ND	0.20	EPA 8260	5-5-11	5-5-11	
n-Propylbenzene 0.26 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11	1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
n-Propylbenzene 0.26 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11	1,2,3-Trichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 tert-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 sec-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 <td></td> <td>0.26</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>		0.26	0.20	EPA 8260	5-5-11	5-5-11	
1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 tert-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 sec-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 p-Isopropyltoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Diblromo-3-chloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 </td <td></td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>		ND	0.20	EPA 8260	5-5-11	5-5-11	
1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 tert-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 sec-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 p-Isopropyltoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Diblromo-3-chloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11	4-Chlorotoluene	ND	0.20	EPA 8260	5-5-11	5-5-11	
tert-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 sec-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 p-Isopropyltoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 <t< td=""><td>1,3,5-Trimethylbenzene</td><td>ND</td><td>0.20</td><td>EPA 8260</td><td>5-5-11</td><td>5-5-11</td><td></td></t<>	1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 sec-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 p-Isopropyltoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 n-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5		ND	0.20	EPA 8260	5-5-11		
1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 p-Isopropyltoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 n-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102		ND	0.20	EPA 8260	5-5-11		
p-Isopropyltoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 n-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102	sec-Butylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 n-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102	1,3-Dichlorobenzene	ND	0.20	EPA 8260	5 -5-1 1	5-5-11	
1,2-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 n-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102	p-Isopropyltoluene	ND	0.20	EPA 8260	5-5-11	5-5-11	
n-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102		ND	0.20	EPA 8260	5-5-11		
n-Butylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102	1,2-Dichlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102	n-Butylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102	1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260			
Hexachlorobutadiene ND 0.20 EPA 8260 5-5-11 5-5-11 Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102							
Naphthalene ND 1.0 EPA 8260 5-5-11 5-5-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102				EPA 8260			
1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102	Naphthalene	ND	1.0				
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102							
Dibromofluoromethane 81 68-107 Toluene-d8 85 73-102						· di.	
Toluene-d8 85 73-102	-	-					
4-Bromofluorobenzene 81 65-104	4-Bromofluorobenzene						

VOLATILES by EPA 8260B page 1 of 2

Matrix: Water Units: ug/L

Client ID:	J				Date	Date	
Dichlorodifiluoromethane	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Dichlorodifiluoromethane	Client ID:	MW6					
Chloromethane ND 1.0 EPA 8260 5-5-11 5-5-11 Vinyl Chloride ND 0.20 EPA 8260 5-5-11 5-5-11 Bromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroethane ND 1.0 EPA 8260 5-5-11 5-5-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Acetone ND 5.0 EPA 8260 5-5-11 5-5-11 Acetone ND 1.0 EPA 8260 5-5-11 5-5-11 Carbon Disulfide ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Disulfide ND 0.20 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 1.0 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 0.20 EPA 8260 5-5-11 5-5-11 Methylene Chloride <td>Laboratory ID:</td> <td>04-219-03</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Laboratory ID:	04-219-03					
Vinyl Chloride ND 0.20 EPA 8260 5-5-11 5-5-11 Bromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroethane ND 1.0 EPA 8260 5-5-11 5-5-11 Trickloroffuoromethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Acetone ND 1.0 EPA 8260 5-5-11 5-5-11 Acetone ND 0.20 EPA 8260 5-5-11 5-5-11 Acetone ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Leduther ND 0.20 EPA 8260 5-5-11 5-5-11 Vinyl Acetale ND 0.20 </td <td>Dichlorodifluoromethane</td> <td>ND</td> <td>0.20</td> <td>EPA 8260 1</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	Dichlorodifluoromethane	ND	0.20	EPA 8260 1	5-5-11	5-5-11	
Bromomethane	Chloromethane	ND	1.0	EPA 8260	5-5-11	5-5-11,	
Chloroethane ND 1.0 EPA 8260 5-5-11 5-5-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Acetone ND 5.0 EPA 8260 5-5-11 5-5-11 Idodomethane ND 1.0 EPA 8260 5-5-11 5-5-11 Carbon Disulfide ND 0.20 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 1.0 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 0.20 EPA 8260 5-5-11 5-5-11 Methyle Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Vinyl Acetate ND 2.0 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroe	Vinyl Chloride	ND	0.20	EPA 8260	5-5-11	5-5-11	
Trichlorofluoromethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Acetone ND 5.0 EPA 8260 5-5-11 5-5-11 Iodomethane ND 1.0 EPA 8260 5-5-11 5-5-11 Carbon Disulfide ND 0.20 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 1.0 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 J-Pa 8260 5-5-11 5-5-11 5-5-11 5-5-11 5-5-11 5-5-	Bromomethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Acetone ND 5.0 EPA 8260 5-5-11 5-5-11 Iodomethane ND 1.0 EPA 8260 5-5-11 5-5-11 Carbon Disulfide ND 0.20 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 1.0 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl -Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl -Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl -Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl -Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 J-1-1-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 J-2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11	Chloroethane	ND	1.0	EPA 8260	5-5-11	5-5-11	
Acetone ND 5.0 EPA 8260 5-5-11 5-5-11 Iodomethane ND 1.0 EPA 8260 5-5-11 5-5-11 Carbon Disulfide ND 0.20 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 1.0 EPA 8260 5-5-11 5-5-11 Methyle Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Jack Ether ND 0.20 EPA 8260 5-5-11 5-5-11 Jack Ether ND	Trichlorofluoromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
ND	1,1-Dichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Carbon Disulfide ND 0.20 EPA 8260 5-5-11 5-5-11 Methylene Chloride ND 1.0 EPA 8260 5-5-11 5-5-11 (trans) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethane 0.20 0.20 EPA 8260 5-5-11 5-5-11 Vinyl Acetate ND 2.0 EPA 8260 5-5-11 5-5-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroptehene ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroptehhane ND 0.20 EPA 8260 5-5-11 5-5-	Acetone	ND	5.0	EPA.8260	5-5-11	5-5-11	
Methylene Chloride ND 1.0 EPA 8260 5-5-11 5-5-11 (trans) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethane 0.20 0.20 EPA 8260 5-5-11 5-5-11 Vinyl Acetate ND 2.0 EPA 8260 5-5-11 5-5-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 (cis) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 5.0 EPA 8260 5-5-11 5-5-11 2-Butanone ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 0.20 EPA 8260 5-5-11 5-5-11 2-Bronchloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11	lodomethane	ND	1.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethane 0.20 0.20 EPA 8260 5-5-11 5-5-11 Vinyl Acetate ND 2.0 EPA 8260 5-5-11 5-5-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 0.20 EPA 8260 5-5-11 5-5-11	Carbon Disulfide	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methyl t-Butyl Ether ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethane 0.20 0.20 EPA 8260 5-5-11 5-5-11 Vinyl Acetate ND 2.0 EPA 8260 5-5-11 5-5-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloropethene ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 2,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11	Methylene Chloride	ND	1.0	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethane 0.20 0.20 EPA 8260 5-5-11 5-5-11 Vinyl Acetate ND 2.0 EPA 8260 5-5-11 5-5-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 (cis) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 5.0 EPA 8260 5-5-11 5-5-11 2-Butanone ND 0.20 EPA 8260 5-5-11 5-5-11 Bromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 <	(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Vinyl Acetate ND 2.0 EPA 8260 5-5-11 5-5-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 (cis) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 5.0 EPA 8260 5-5-11 5-5-11 Bromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 Carbo	Methyl t-Butyl Ether	ND	0.20	EPA 8260	5-5-11	5-5-11	
2,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 (cis) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 5.0 EPA 8260 5-5-11 5-5-11 Bromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11	1,1-Dichloroethane	0.20	0.20	EPA 8260	5-5-11	5-5-11	
(cis) 1,2-Dichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 2-Butanone ND 5.0 EPA 8260 5-5-11 5-5-11 Bromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 </td <td>Vinyl Acetate</td> <td>ND</td> <td>2.0</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	Vinyl Acetate	ND	2.0	EPA 8260	5-5-11	5-5-11	
2-Butanone ND 5.0 EPA 8260 5-5-11 5-5-11 Bromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Benzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11	2,2-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Benzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11	(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	5- 5-11	5-5-11	
Chloroform ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Benzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 <td>2-Butanone</td> <td>ND</td> <td>5.0</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	2-Butanone	ND	5.0	EPA 8260	5-5-11	5-5-11	
1,1,1-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Benzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 <td>Bromochloromethane</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	Bromochloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Carbon Tetrachloride ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Benzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	Chloroform	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Benzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	1,1,1-Trichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Benzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	Carbon Tetrachloride	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	1,1-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Trichloroethene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	Benzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	1,2-Dichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Dibromomethane ND 0.20 EPA 8260 5-5-11 5-5-11 Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	Trichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromodichloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	1,2-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-5-11 5-5-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	Dibromomethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
(cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	Bromodichloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methyl isobutyl Ketone ND 2.0 EPA 8260 5-5-11 5-5-11 Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	5-5-11	5-5-11	
Toluene ND 1.0 EPA 8260 5-5-11 5-5-11	(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	
	Methyl Isobutyl Ketone	ND	2.0	EPA 8260	5-5-11	5-5-11	
	Toluene	ND	1.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,3-Dichloropropene ND 0.20 EPA 8260 5-5-11 5-5-11	(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	

VOLATILES by EPA 8260B page 2 of 2

Analyte					Date	Date	
Client ID:	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Tetrachloroethene 0.22 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Hexanone ND 0.20 EPA 8260 5-5-11 5-5-11 1,1-1,2-Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Chlysene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Brydene ND 0.20 EPA 8260 5-5-11 5-5-11 Isomoform	Client ID:	MW6					
Tetrachloroethene	Laboratory ID:	04-219-03					
1,3-Dichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Hexanone ND 2.0 EPA 8260 5-5-11 5-5-11 Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Litylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylene ND 0.40 EPA 8260 5-5-11 5-5-11 D-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Brylene ND 0.20 EPA 8260 5-5-11 5-5-11 Brylene ND 0.20 EPA 8260 5-5-11 5-5-11 Brylene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND <t< td=""><td>1,1,2-Trichloroethane</td><td>ND</td><td>0.20</td><td>EPA 8260</td><td>5-5-11</td><td>5-5-11</td><td></td></t<>	1,1,2-Trichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Hexanone ND 2.0 EPA 8260 5-5-11 5-5-11 Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 (1-2-Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 (1-12-Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 (1-13-12-Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 (1-13-Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 (1-13-Dibromofluoromethane ND 0.20 EPA 8260 5-5-11 5-5-11 (1-13-Dibromochloromethane N	Tetrachloroethene	0.22	0.20	EPA 8260	5-5-11	5-5-11	
Dibromochloromethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.	1,3-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dibromoethane ND 0.20 EPA 8260 5-5-11 5-5-11 Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 L1,1,2-Tetrachioroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 3.5 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 3.5 0.20 EPA 8260 5-5-11 5-5-11 1,2,2-Trichloropethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,2-Trichloropetop	2-Hexanone	ND	2.0	EPA 8260	5-5-11	5-5-11	
Chlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 mpXylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 3.5 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 Hornobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,3-Tichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Tichlorotol	Dibromochloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 Ethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 3.5 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,2-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,2-Trichlorobropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,2-Trichlorobluene ND 0.20 EPA 8260 5-5-11 5-5-11 <t< td=""><td>1,2-Dibromoethane</td><td>ND</td><td>0.20</td><td>EPA 8260</td><td>5-5-11</td><td>5-5-11</td><td></td></t<>	1,2-Dibromoethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Ethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 m,p-Xylene ND 0.40 EPA 8260 5-5-11 5-5-11 o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Tirchloroptane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND <td>Chlorobenzene</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>	Chlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
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o-Xylene ND 0.20 EPA 8260 5-5-11 5-5-11 Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 3.5 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 <td< td=""><td>Ethylbenzene</td><td>ND</td><td>0.20</td><td>EPA 8260</td><td>5-5-11</td><td>5-5-11</td><td></td></td<>	Ethylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Styrene ND 0.20 EPA 8260 5-5-11 5-5-11 Bromoform ND 1.0 EPA 8260 5-5-11 5-5-11 Isopropylbenzene 3.5 0.20 EPA 8260 5-5-11 5-5-11 Bromobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-5-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 <t< td=""><td>m,p-Xylene</td><td>ND</td><td>0.40</td><td>EPA 8260</td><td>5-5-11</td><td>5-5-11</td><td></td></t<>	m,p-Xylene	ND	0.40	EPA 8260	5-5-11	5-5-11	
Bromoform ND	o-Xylene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromoform ND	Styrene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromobenzene		ND	1.0	EPA 8260	5-5-11	5-5-11	
Bromobenzene	Isopropylbenzene	3.5	0.20	EPA 8260			
1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-5-11 5-5-11 n-Propylbenzene 2.2 0.20 EPA 8260 5-5-11 5-5-11 2-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 4-Chlorotoluene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,2-A-Trimethylbenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 5-5-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-5-11 <td></td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-5-11</td> <td>5-5-11</td> <td></td>		ND	0.20	EPA 8260	5-5-11	5-5-11	
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Surrogate: Percent Recovery Control Limits Dibromofluoromethane 83 68-107 Toluene-d8 86 73-102	-						
Dibromofluoromethane 83 68-107 Toluene-d8 86 73-102			*				v
Toluene-d8 86 73-102		-					
	4-Bromofluorobenzene	82	65-104				

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

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:	MB0505W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Chloromethane	ND	1.0	EPA 8260	5-5-11	5-5-11	
Vinyl Chloride	, ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromomethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Chloroethane	ND	1.0	EPA 8260	5-5-11	5-5-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Acetone	ND	5.0	EPA 8260	5-5-11	5-5-11	
Iodomethane	ND	1.0	EPA 8260	5-5-11	5-5-11 ·	
Carbon Disulfide	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methylene Chloride	ND	1.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Vinyl Acetate	ND	2.0	EPA 8260	5-5-11	5-5-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Butanone	ND	5.0	EPA 8260	5-5-11	5-5-11	
Bromochloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Chloroform	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Benzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Trichloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Dibromomethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromodichloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	5-5-11	5-5-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	5-5-11	5-5-11	
Toluene	ND	1.0	EPA 8260	5-5-11	5-5-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-5-11	5-5-11	

Date of Report: May 9, 2011 Samples Submitted: April 29, 2011 Laboratory Reference: 1104-219

Project: 6552

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

A share	Danulé	BOL	Method	Date	Date	Flags
Analyte	Result	PQL	Wethou	Prepared	Analyzed	riags
Laboratory ID:	MB0505W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Tetrachloroethene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Hexanone	ND	2.0	EPA 8260	5-5-11	5-5-11	
Dibromochloromethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Chlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
Ethylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
n,p-Xylene	ND	0.40	EPA 8260	5-5-11	5-5-11	
o-Xylene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Styrene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromoform	ND	1.0	EPA 8260	5-5-11	5-5-11	
Isopropylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Bromobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	5-5-11	5-5-11	
n-Propylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
2-Chlorotoluene	ND	0.20	EPA 8260	5-5-11	5-5-11	
4-Chlorotoluene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
tert-Butylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
sec-Butylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
p- is opropyltoluene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
n-Butylbenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
1,2-Dibromo-3-chloropropane		1.0	EPA 8260	5-5-11	5-5-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Naphthalene	ND	1.0	EPA 8260	5-5-11	5-5-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	5-5-11	5-5-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	80	68-107				
Toluene-d8	85	73-102				
4-Bromofluorobenzene	83	65-104				

Date of Report: May 9, 2011 Samples Submitted: April 29, 2011 Laboratory Reference: 1104-219

Project: 6552

VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

_					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB05	05W1								
	SB	SBD	SB	SBD	SB	SBD	•			
1,1-Dichloroethene	10.5	10.7	10.0	10.0	105	107	70-130	2	11	
Benzene	10.2	10.2	10.0	10.0	102	102	79-123	0	8	
Trichloroethene	9.91	9.91	10.0	10.0	99	99	82-113	0	9	
Toluene	10.4	10.3	10.0	10.0	104	103	84-113	1	8	
Chlorobenzene	10.5	10.4	10.0	10.0	105	104	89-111	_ 1	8	
Surrogate:										
Dibromofluoromethane .					81	78	68-107			
Toluene-d8					86	84	73-102			
4-Bromofluorobenzene					83	84	65-104			



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

JUA Onsite

Chain of Custody

Page	1	of	

Environmental Inc. 14648 NE 95th Street • Redmand, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Turr (in	naround Requ working day	est s)		L	abo	rate	ory	Nu	dm	er:									 0	Ą		1	9	
Project Number: 6552 Project Name: Project Manager: Chuk Lia Sampled by:	Sam 2 Da Star (TP)		1 Day 3 Days	Number of Containers	QIOH	NWTPH-Gx/BTEX	, g	ρ×	8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	82	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	fotal RCRA / MTCA Metals (circle one)	etais	HEM (oil and grease) 1664						ure
Nicolas Hottman Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	Number	NWTPH-HCID	NWTPH-(NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogena	Semivola (with low-	PAHs 82	PCBs 8082	Organod	Organopt	Chlorinat	Total RC	TCLP Metals	HEM (oil						% Moisture
	4/29/11	11:40 12:40 13:44	3 +	7			XXX	X X X	X X																
Signature Relinquished Received Relinquished Received Relinquished Received Relinquished Received		ompany Toria	Asso:	chal	5 49	Oate	A B	7//	15 / S.	57	<u> </u>	Con	nmen	ts/Spe	ecial	instru *	uction	18:							
Reviewed/Date		Reviewed/Da	ite									Chro	mato	grams	with	final r	eport			 		: • •			



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

July 8, 2011

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

Re:

Analytical Data for Project 6582 Laboratory Reference No. 1106-252

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on June 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

Project: 6582

Case Narrative

Samples were collected on June 29, 2011 and received by the laboratory on June 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.

Project: 6582

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-201					
Laboratory ID:	06-252-01					
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	73-121				

Project: 6582

NWTPH-Gx QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK					,	
Laboratory ID:	MB0701W2					
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	73-121				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										-
Laboratory ID:	06-25	51-02								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						91 100	73-121			

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

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-201					
Laboratory ID:	06-252-01			÷		
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-5-11	7-7-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	7-5-11	7-7-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	95	50-150				-

Project: 6582

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:	MB0705W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	7-5-11	7-6-11	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	7-5-11	7-6-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenvl	101	50-150				

Analyte	Pos	sult	Pero Reco		Recovery Limits	RPD	RPD Limit	Fla na
DUPLICATE	nes	Suit	necc	very	Limits	RPD	Limit	Flags
Laboratory ID:	06-26	67-01						
	ORIG	DUP					····	
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			111	103	50-150			

Project: 6582

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:	06-252-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
lodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	0.23	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	0.27	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

VOLATILES by EPA 8260B page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-201					
Laboratory ID:	06-252-01	, , , , , , , , , , , , , , , , , , ,				
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
sopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
o-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane		1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
-lexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	89	68-110				
Toluene-d8	91	73-110				
4-Bromofluorobenzene	80	65-110				

Project: 6582

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:	MB0701W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	. 7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
lodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-1 1	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

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

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0701W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 82 6 0	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane		1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	68-110				
Toluene-d8	92	73-110				
4-Bromofluorobenzene	82	65-110				
. 2.0///0//00/00///20//0	-					

VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS							•			
Laboratory ID:	SB07	01W2								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	11.4	10.0	10.0	109	114	70-130	4	11	
Benzene	9.77	10.1	10.0	10.0	98	101	75-123	3	8	
Trichloroethene	10.2	10.0	10.0	10.0	102	100	80-113	2	9	
Toluene	10.1	10.3	10.0	10.0	101	103	80-113	2	8	
Chlorobenzene	10.1	10.2	10.0	10.0	101	102	80-111	11	8	
Surrogate:										
Dibromofluoromethane					82	88	68-110			
Toluene-d8					90	91	73-110			
4-Bromofluorobenzene					82	82	65-110			



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

	Å onsite		Cha	o nik	f	Ju	St	Od	ly											P	age _		_of _	<u> </u>	_	
	Environmental inc. 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	(in	naround Requ working day	iest /s)		L	abo	rat	ory	NL	ımt	er:		281.25.27								0	6	- 2	5/	?
Proje Proje	pany: Tes con Associanta ect Number: 6582 ect Name: Chuck Lia pled by: Micolas Hoffman	Sam	ays Indard (7 Days) H analysis 5 D (other)	1 Day 3 Days lays) Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 6260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664						% Moisture
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Data Package: Level III 🗍 Level IV 🗍 Electronic Data Deliverables (EDDs) 🗋

AL Onsite	G	hain C	of C	usi	Ot	ly										Pa	ige	_	of			
Environmental Inc. 14646 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Turnaround (in workin	Request ı days)		Lab	orat	ory	Nu	mb	er:				1.00					0	6 -	-2 {	52	
Project Number: 6582 Project Name: Project Manager: Chyck Cia Sampled by: Micolas Hoffman	Date Tim	1 Day 3 Days Days) s 5 Days)	Number of Containers	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles B260B	Halogenated Volatiles 6260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHS 82/0D/SIM (tow-fevel) PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664						% Moisture
Lab ID Sample Identification	Sampled Samp		2 2	ž ž	V	Ž	3	Ÿ	త క <u>ె</u>	2 6	Įō.	10	10	<u> </u>	F	I						0,
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Data Package: Level III 🗓 Level IV 🗋 Electronic Data Deliverables (EDDs) 🗀



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

May 18, 2011

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

Re:

Analytical Data for Project 6552-1 Laboratory Reference No. 1105-082

Dear Chuck:

Enclosed are the analytical results and associated quality control data for samples submitted on May 10, 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

Project: 6552-1

Case Narrative

Samples were collected on May 10, 2011 and received by the laboratory on May 10, 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.

Project: 6552-1

NWTPH-Gx

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-101					
Laboratory ID:	05-082-01					
Gasoline	160	100	NWTPH-Gx	5-11-11	5-11-11	
Surrogate:	Percent Recovery	Control Limits	•			
Fluorobenzene	100	73-121				
Client ID:	MW-102					
Laboratory ID:	05-082-02					
Gasoline	ND	500	NWTPH-Gx	5-11-11	5-11-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	98	73-121			•	
Client ID:	MW-103					
Laboratory ID:	05-082-03					
Gasoline	940	500	NWTPH-Gx	5-11-11	5-11-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	97	73-121				

NWTPH-Gx QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK					,	
Laboratory ID:	MB0511W1					-
Gasoline	ND	100	NWTPH-Gx	5-11-11	5-11-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	99	73-121				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										•
Laboratory ID:	05-08	32-01				*				
	ORIG	DUP								
Gasoline	160	153	NA	NA		NA	NA	4	30	
Surrogate:					_					
Fluorobenzene						100 100	73-121			

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

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-101					
Laboratory ID:	05-082-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	5-17-11	5-17-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	5-17-11	5-17-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	100	50-150				
Client ID:	MW-102	•				
Laboratory ID:	05-082-02					
Diesel Range Organics	ND	0.27	NWTPH-Dx	5-17-11	5-17-11	U1
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	5-17-11	5-17-11	
Surrogate:	Percent Recovery	Control Limits				· · · · · · · · · · · · · · · · · · ·
o-Terphenyl	106	50-150				
Client ID:	MW-103					
Laboratory ID:	05-082-03					
Diesel Range Organics	ND	0.70	NWTPH-Dx	5-17-11	5-17-11	U1
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	5-17-11	5-17-11 5-17-11	01
Surrogate:	Percent Recovery	Control Limits	1444 II II-DX	<u> </u>	J-17+11	
o-Terphenyl	102	50-150				

Project: 6552-1

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:	MB0517W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	5-17-11	5-17-11	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	5-17-11	5-17-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	102	50-150				

Analyte	Res	sult		cent	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-08	32-01						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			100	101	50-150			

VOLATILES by EPA 8260B page 1 of 2

Matrix: Water Units: ug/L

Analyte Result PQL Method Prepared Analyzed Flags	-				Date	Date	
Laboratory ID:	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Dichlorodiffluoromethane	Client ID:	MW-101					
Chloromethane ND 1.0 EPA 8260 5-12-11 5-12-11 Vinyl Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Bromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Chloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 0.20 EPA 8260 5-12-11 5-12-11 Idodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11	Laboratory ID:	05-082-01					
Vinyl Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Bromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Acetone ND 1.0 EPA 8260 5-12-11 5-12-11 Idodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11	Dichlorodifluoromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Wethylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 William Law	Chloromethane	ND	1.0	EPA 8260	5-12-11	5-12-11	
Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Idodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11	Vinyl Chloride	ND	0.20	EPA 8260	5-12-11	5-12-11	
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Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methyl: Ebutyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethane 0.49 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethane 0.49 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethane 0.49 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroptonane ND 0.20 EPA 8260 5-12-11 5-12-11 2,2-Dichloroethane 0.39 0.20 EPA 8260 5-12-11 5-12-11 2-Butanone ND 0.20 EPA 8260 5-12-11 5-12-11 Bromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 <td>Trichlorofluoromethane</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-12-11</td> <td>5-12-11</td> <td></td>	Trichlorofluoromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
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2-Butanone ND 5.0 EPA 8260 5-12-11 5-12-11 Bromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroform 1.1 0.20 EPA 8260 5-12-11 5-12-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene 1.3 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropthane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11	2,2-Dichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroform 1.1 0.20 EPA 8260 5-12-11 5-12-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene 1.3 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11	(cis) 1,2-Dichloroethene	0.39	0.20	EPA 8260	5-12-11	5-12-11	
Chloroform 1.1 0.20 EPA 8260 5-12-11 5-12-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene 1.3 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11	2-Butanone	ND	5.0	EPA 8260	5-12-11	5-12-11	
1,1,1-Trichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene 1.3 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 <td>Bromochloromethane</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-12-11</td> <td>5-12-11</td> <td></td>	Bromochloromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Carbon Tetrachloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene 1.3 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 <t< td=""><td>Chloroform</td><td>1,1</td><td>0.20</td><td>EPA 8260</td><td>5-12-11</td><td>5-12-11</td><td></td></t<>	Chloroform	1,1	0.20	EPA 8260	5-12-11	5-12-11	
1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene 1.3 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	1,1,1-Trichloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Benzene 1.3 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Carbon Tetrachloride	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	1,1-Dichloropropene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Benzene	1.3	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	1,2-Dichloroethane	· ND	0.20	EPA 8260	5-12-11	5-12-11	
Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Trichloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	1,2-Dichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Dibromomethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
(cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Bromodichloromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
(cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	5-12-11	5-12-11	
Toluene ND 1.0 EPA 8260 5-12-11 5-12-11		ND	0.20	EPA 8260	5-12-11	5-12-11	
Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Methyl Isobutyl Ketone	ND	2.0	EPA 8260	5-12-11	5-12-11	
(trans) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11		ND	1.0	EPA 8260	5-12-11	5-1 2- 11	
	(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-12-11	5-12-11	

VOLATILES by EPA 8260B page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-101					
Laboratory ID:	05-082-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Tetrachloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
2-Hexanone	ND	2.0	EPA 8260	5-12-11	5-12-11	
Dibromochloromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Chlorobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Ethylbenzene	0.95	0.20	EPA 8260	5-12-11	5-12-11	
m,p-Xylene	1.5	0.40	EPA 8260	5-12-11	5-12-11	
o-Xylene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Styrene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromoform	ND	1.0	EPA 8260	5-12-11	5-12-11	
Isopropylbenzene	1.1	0.20	EPA 8260	5-12-11	5-12-11	
Bromobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
n-Propylbenzene	1.1	0.20	EPA 8260	5-12-11	5-12-11	
2-Chlorotoluene	ND	0.20	EPA 8260	5-12-11	5-12-11	
4-Chlorotoluene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,3,5-Trimethylbenzene	0.77	0.20	EPA 8260	5-12-11	5-12-11	
ert-Butylbenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2,4-Trimethylbenzene	5.2	0.20	EPA 8260	5-12-11	5-12-11	
sec-Butylbenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
o-Isopropyltoluene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
n-Butylbenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dibromo-3-chloropropane		1.0	EPA 8260	5-12-11	5-12-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
-lexachlorobutadiene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Naphthalene	ND	1.0	EPA 8260	5-12-11	5-12-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
	Percent Recovery	Control Limits			<u> </u>	
Dibromofluoromethane	88	68-107				
Toluene-d8	90	73-102				
4-Bromofluorobenzene	88	65-104				

VOLATILES by EPA 8260B page 1 of 2

Matrix: Water Units: ug/L

Analyte Result PQL Method Prepared Analyzed Flag					Date	Date	
Laboratory ID: 05-082-02 Dichlorodifluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloromethane ND 1.0 EPA 8260 5-12-11 5-12-11 Vinyl Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Bromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 1.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Idethylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 <t< th=""><th>Analyte</th><th>Result</th><th>PQL</th><th>Method</th><th>Prepared</th><th>Analyzed</th><th>Flags</th></t<>	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Dichlorodifiluoromethane	Client ID:	MW-102					
Chloromethane ND 1.0 EPA 8260 5-12-11 5-12-11 Vinyl Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Bromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Chloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11	Laboratory ID:	05-082-02		·			
Vinyl Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Bromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 1.0 EPA 8260 5-12-11 5-12-11 Acetone ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND	Dichlorodifluoromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11	Chloromethane	ND	1.0	EPA 8260	5-12-11	5-12-11	
Chloroethane ND 1.0 EPA 8260 5-12-11 5-12-11 Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methyle Educ ND 0.20 EPA 8260 5-12-11 5-12-11 Methyle Educ ND 0.20 EPA 8260 5-12-11 5-12-11 <tr< td=""><td>Vinyl Chloride</td><td>ND</td><td>0.20</td><td>EPA 8260</td><td>5-12-11</td><td>5-12-11</td><td></td></tr<>	Vinyl Chloride	ND	0.20	EPA 8260	5-12-11	5-12-11	
Trichlorofluoromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methyl EButyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Vinyl Acetate ND 0.20 EPA 8260 5-12-11 5-12-1	Bromomethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl R-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-	Chloroethane	ND	1.0	EPA 8260	5-12-11	5-12-11	
Acetone ND 5.0 EPA 8260 5-12-11 5-12-11 Iodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methyle Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Jack Edel ND 0.20 EPA 8260 5-12-11 5-12-11 Jack Edel	Trichlorofluoromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
lodomethane ND 1.0 EPA 8260 5-12-11 5-12-11 Carbon Disulfide ND 0.20 EPA 8260 5-12-11 5-12-11 Methylene Chloride ND 1.0 EPA 8260 5-12-11 5-12-11 Methyl Ebury ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Ebury Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl L-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 Vinyl Acetate ND 0.20 EPA 8260 5-12-11 5-12-11 Vinyl Acetate ND 0.20 EPA 8260 5-12-11 5-12-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 <td>1,1-Dichloroethene</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-12-11</td> <td>5-12-11</td> <td></td>	1,1-Dichloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
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(trans) 1,2-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl t-Butyl Ether ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Vinyl Acetate ND 2.0 EPA 8260 5-12-11 5-12-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 (cis) 1,2-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 2-Butanone ND 0.20 EPA 8260 5-12-11 5-12-11 1-Indication ND 0.20 EPA 8260 5-12-11 5-12-11	Carbon Disulfide	ND	0.20	EPA 8260	5-12-11	5-12-11	
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1,1-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Vinyl Acetate ND 2.0 EPA 8260 5-12-11 5-12-11 2,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2,2-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 2-Butanone ND 5.0 EPA 8260 5-12-11 5-12-11 2-Butanone ND 0.20 EPA 8260 5-12-11 5-12-11 2-Butanone ND 0.20 EPA 8260 5-12-11 5-12-11 2-Butanone ND 0.20 EPA 8260 5-12-11 5-12-11 Bromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-1-Dichloropthane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11	(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
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(cis) 1,2-Dichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 2-Butanone ND 5.0 EPA 8260 5-12-11 5-12-11 Bromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chloroform ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,1-Trichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Carbon Tetrachloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 </td <td>Vinyl Acetate</td> <td>ND</td> <td>2.0</td> <td>EPA 8260</td> <td>5-12-11</td> <td>5-12-11</td> <td></td>	Vinyl Acetate	ND	2.0	EPA 8260	5-12-11	5-12-11	
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Carbon Tetrachloride ND 0.20 EPA 8260 5-12-11 5-12-11 1,1-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Benzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 <td< td=""><td>Chloroform</td><td>ND</td><td>0.20</td><td>EPA 8260</td><td>5-12-11</td><td>5-12-11</td><td></td></td<>	Chloroform	ND	0.20	EPA 8260	5-12-11	5-12-11	
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Trichloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 Dibromomethane ND 0.20 EPA 8260 5-12-11 5-12-11 Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Benzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
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Bromodichloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	1,2-Dichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
2-Chloroethyl Vinyl Ether ND 1.0 EPA 8260 5-12-11 5-12-11 (cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	Dibromomethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
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(cis) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11 Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	5-12-11	5-12-11	
Methyl Isobutyl Ketone ND 2.0 EPA 8260 5-12-11 5-12-11 Toluene ND 1.0 EPA 8260 5-12-11 5-12-11	· · · · · · · · · · · · · · · · · · ·	ND		EPA 8260	5-12-11		
		ND	2.0	EPA 8260	5-12-11	5-12-11	
(trans) 1,3-Dichloropropene ND 0.20 EPA 8260 5-12-11 5-12-11	Toluene	ND	1.0	EPA 8260	5-12-11	5-12-11	
	(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-12-11	5-12-11	

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Analyte Result PQL Method Prepared Analyzed Flags					Date	Date	
Laboratory ID: 05-082-02 1,1,2-Trichloroethane ND	Analyte	Result			Prepared	Analyzed	Flags
1,1,2-Trichloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Tetrachloroethene ND 0.20 EPA 8260 5-12-11 5-12-11 1,3-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Hexanone ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.40 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 <	Client ID:	MW-102					
Tetrachloroethene	Laboratory ID:	05-082-02	2				
1,3-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Hexanone ND 2.0 EPA 8260 5-12-11 5-12-11 Dibromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.40 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Drylene ND 0.20 EPA 8260 5-12-11 5-12-11 Brylene ND 0.20 EPA 8260 5-12-11 5-12-11 Brylene ND 0.20 EPA 8260 5-12-11 5-12-11 Brylene	1,1,2-Trichloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
2-Hexanone	Tetrachloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Dibromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.40 EPA 8260 5-12-11 5-12-11 Coxylene ND 0.20 EPA 8260 5-12-11 5-12-11 Styrene	1,3-Dichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
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Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 mpXylene ND 0.40 EPA 8260 5-12-11 5-12-11 Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromoform ND 1.0 EPA 8260 5-12-11 5-12-11 Bromoform ND 0.20 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromoform ND 0.20 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11	Dibromochloromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 m,p-Xylene ND 0.40 EPA 8260 5-12-11 5-12-11 c-Xylene ND 0.20 EPA 8260 5-12-11 5-12-11 Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromoform ND 1.0 EPA 8260 5-12-11 5-12-11 Bromobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 <td>1,2-Dibromoethane</td> <td>ND</td> <td>0.20</td> <td>EPA 8260</td> <td>5-12-11</td> <td>5-12-11</td> <td></td>	1,2-Dibromoethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
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m,p-Xylene ND 0.40 EPA 8260 5-12-11 5-12-11 c-Xylene ND 0.20 EPA 8260 5-12-11 5-12-11 Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromoform ND 1.0 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 J.1.2,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 J.1.2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 P-Propylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 4-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11	1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
o-Xylene ND 0.20 EPA 8260 5-12-11 5-12-11 Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromoform ND 1.0 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 4-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11	Ethylbenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromoform ND 1.0 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Bromobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Jr.2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 n-Propylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 4-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 <t< td=""><td>m,p-Xylene</td><td>ND</td><td>0.40</td><td>EPA 8260</td><td>5-12-11</td><td>5-12-11</td><td></td></t<>	m,p-Xylene	ND	0.40	EPA 8260	5-12-11	5-12-11	
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Isopropylbenzene	Styrene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 2-Chlorotoluene ND 0.20 EPA 8260 5-12-11 5-12-11 3,5-Trimethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,3-Dichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Tichlorobenzene ND	Bromoform	ND	1.0	EPA 8260	5-12-11	5-12-11	
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p-Isopropyltoluene ND 0.20 EPA 8260 5-12-11 5-12-11 1,4-Dichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 n-Butylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-12-11 5-12-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-12-11 5-12-11 Naphthalene ND 1.0 EPA 8260 5-12-11 5-12-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	sec-Butylbenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
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1,2-Dichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 n-Butylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260 5-12-11 5-12-11 1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-12-11 5-12-11 Naphthalene ND 1.0 EPA 8260 5-12-11 5-12-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	p-Isopropyltoluene	ND	0.20	EPA 8260	5-12-11	5-12-11	
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1,2,4-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Hexachlorobutadiene ND 0.20 EPA 8260 5-12-11 5-12-11 Naphthalene ND 1.0 EPA 8260 5-12-11 5-12-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	n-Butylbenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Hexachlorobutadiene ND 0.20 EPA 8260 5-12-11 5-12-11 Naphthalene ND 1.0 EPA 8260 5-12-11 5-12-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	5-12-11	5-12-11	
Naphthalene ND 1.0 EPA 8260 5-12-11 5-12-11 1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2,3-Trichlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	Hexachlorobutadiene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	Naphthalene	ND	1.0	EPA 8260	5-12-11	5-12-11	
Surrogate: Percent Recovery Control Limits Dibromofluoromethane 88 68-107 Toluene-d8 90 73-102	· · · · · · · · · · · · · · · · · · ·		0.20		5-12-11	5-12-11	
Toluene-d8 90 73-102	Surrogate:	Percent Recovery	Control Limits				· ·
	Dibromofluoromethane	88	68-107				
4-Bromofluorobenzene 88 65-104	Toluene-d8	90	73-102				
	4-Bromofluorobenzene	88	65-104				

Project: 6552-1

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-103					
Laboratory ID:	05-082-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Chloromethane	ND	1.0	EPA 8260	5-12-11	5-12-11	
Vinyl Chloride	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromomethane	, ND	0.20	EPA 8260	5-12-11	5-12-11	
Chloroethane	ND	1.0	EPA 8260	5-12-11	5-12-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Acetone	ND	5.0	EPA 8260	5-12-11	5-12-11	
Iodomethane	ND	1.0	EPA 8260	5-12-11	5-12-11	
Carbon Disulfide	ND	0.20	EPA 8260	5-12-11	5-12-11	
Methylene Chloride	ND	1.0	EPA 8260	5-12-11	5-12-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Vinyl Acetate	ND	2.0	EPA 8260	5-12-11	5-12-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
2-Butanone	ND	5.0	EPA 8260	5-12-11	5-12-11	
Bromochloromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Chloroform	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	5-12-11	5-12 - 11	
Carbon Tetrachloride	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Benzene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Trichloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	5-12- 1 1	5-12-11	
Dibromomethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
Bromodichloromethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	5-12-11	5-12-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	5-12-11	5-12-11	
Toluene	ND	1.0	EPA 8260	5-12-11	5-12-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	5-12-11	5-12-11	

VOLATILES by EPA 8260B page 2 of 2

Analyte						Date	
Laboratory ID:	Analyte	Result			Prepared	Analyzed	Flags
1,1,2-Trichloroethane	Client ID:	MW-103					
Tetrachloroethene	Laboratory ID:	05-082-03					
1,3-Dichloropropane ND 0.20 EPA 8260 5-12-11 5-12-11 2-Hexanone ND 2.0 EPA 8260 5-12-11 5-12-11 Dibromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dibromoethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 mp-Xylene ND 0.20 EPA 8260 5-12-11 5-12-11 styrene ND 0.20 EPA 8260 5-12-11 5-12-11	1,1,2-Trichloroethane	ND	0.20	EPA 8260	5-12-11	5-12-11	
2-Hexanone ND 2.0 EPA 8260 5-12-11 5-12-11 Dibromochloromethane ND 0.20 EPA 8260 5-12-11 5-12-11 1,2-Dibromochlane ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Lyla Terrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.40 EPA 8260 5-12-11 5-12-11 O-Xylene ND 0.40 EPA 8260 5-12-11 5-12-11 Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 Styrene ND 0.20 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Isop	Tetrachloroethene	ND	0.20	EPA 8260	5-12-11	5-12-11	
Dibromochloromethane	1,3-Dichloropropane	ND	0.20	EPA 8260	5-12-11	5-12-11	
1,2-Dibromoethane ND 0.20 EPA 8260 5-12-11 5-12-11 Chlorobenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260 5-12-11 5-12-11 Ethylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 mp-Xylene ND 0.40 EPA 8260 5-12-11 5-12-11 o-Xylene ND 0.20 EPA 8260 5-12-11 5-12-11 o-Xylene ND 0.20 EPA 8260 5-12-11 5-12-11 bromoform ND 0.20 EPA 8260 5-12-11 5-12-11 Bromoform ND 0.20 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 Isopropylbenzene ND 0.20 EPA 8260 5-12-11 5-12-11 1,2,3-Trichloroptopane ND 0.20 EPA 8260 5-12-11 5-12-11 <td< td=""><td>2-Hexanone</td><td>ND</td><td>2.0</td><td>EPA 8260</td><td>5-12-11</td><td>5-12-11</td><td></td></td<>	2-Hexanone	ND	2.0	EPA 8260	5-12-11	5-12-11	
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VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL page 2 of 2

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1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260 1,2,3-Trichloropropane ND 0.20 EPA 8260 n-Propylbenzene ND 0.20 EPA 8260 2-Chlorotoluene ND 0.20 EPA 8260 4-Chlorotoluene ND 0.20 EPA 8260 1,3,5-Trimethylbenzene ND 0.20 EPA 8260 tert-Butylbenzene ND 0.20 EPA 8260 1,2,4-Trimethylbenzene ND 0.20 EPA 8260 sec-Butylbenzene ND 0.20 EPA 8260 1,3-Dichlorobenzene ND 0.20 EPA 8260 p-Isopropyltoluene ND 0.20 EPA 8260 1,4-Dichlorobenzene ND 0.20 EPA 8260	5-12-11 5-12-11	5-12-11 5-12-11	
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1,4-Dichlorobenzene ND 0.20 EPA 8260	5-12-11	5-12-11	
1,4-Dichlorobenzene ND 0.20 EPA 8260	5-12-11	5-12-11	
•	5-12-11	5-12-11	
1,2-Dichlorobenzene ND 0.20 EPA 8260	5-12-11	5-12-11	
n-Butylbenzene ND 0.20 EPA 8260	5-12-11	5-12-11	
1,2-Dibromo-3-chloropropane ND 1.0 EPA 8260	5-12-11	5-12-11	
1,2,4-Trichlorobenzene ND 0.20 EPA 8260	5-12-11	5-12-11	
Hexachlorobutadiene ND 0.20 EPA 8260	5-12-11	5-12-11	
Naphthalene ND 1.0 EPA 8260	5-12-11	5-12-11	
1,2,3-Trichlorobenzene ND 0.20 EPA 8260	5-12-11	5-12-11	
Surrogate: Percent Recovery Control Limits			
Dibromofluoromethane 83 68-107			
Toluene-d8 86 73-102			
4-Bromofluorobenzene 80 65-104			

Project: 6552-1

VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

·					Per	cent	Recovery		RPD	
Analyte	Result Spike Level Recove		overy	Limits	RPD	Limit	Flags			
SPIKE BLANKS										
Laboratory ID:	SB05	12W1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.43	9.82	10.0	10.0	94	98	70-130	4	11	
Benzene	9.76	9.65	10.0	10.0	98	97	79-123	1	8	
Trichloroethene	9.71	9.70	10.0	10.0	97	97	82-113	0	9	
Toluene	10.3	10.1	10.0	10.0	103	101	84-113	2	8	
Chlorobenzene	10.4	10.4	10.0	10.0	104	104	89-111	0	8	
Surrogate:										
Dibromofluoromethane					85	85	68-107			
Toluene-d8					90	86	73-102			
4-Bromofluorobenzene					85	82	65-104			



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

Ála OnSite		G	rain (f (Cu	St	ođ	ly												age _		of _	1		
Environmental 14648 NE 95th Street • Redmond, WA Prione: (425) 883-3881 • www.onsite-e	116. 198052 HIV.COITI	Turnaround R (In working (Check Or	furnaround Request (in working days) Laboratory Number:								U5-082							***********							
Project Name: Project Manager: Charles by:		Same Day 2 Days Standard (7 Da (TPH analysis	1 Day 3 Days ays) 5 Days)	Number of Containers	HCID	WYTPH-Gw/BTEX	Ğ×	ă	8260B	Haiogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with tow-level PAHs)	PAHs 8270D/SIM (low-level)	85	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	fotal RCRA / MTCA Metals (circle one)	stals	HEM (oil and grease) 1664						ure
Lab ID Sample Identification	NY GAA Da Sam			Milliper	NWTPH-HCID	NWTPH-	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Haiogeni	Semivola (with low	PAHs 82	PCBs 8082	Organoc	Organop	Chlorina	Total RC	TCLP Metals	HEM (oil						% Moisture
(MW-6)	5/1	1112:0	<u> 4 Pr</u>	7			X	X	X											ļ		 	1		_
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Signature	11	Company	- GEORGEAN			Date	····		Time			Com	ment	s/Spe	cial I	nstru	ction	S		<u> </u>		<u> </u>			
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Data Package: Level III : Level IV : Electronic Data Deliverables (EDDs)

Chromatograms with final report

Reviewed/Date

Relinquished
Received
Relinquished

Received

Reviewed/Date

APPENDIX E SAMPLING AND ANALYTICAL TESTING VAPOR SAMPLES

5221 Ballard Avenue NW Seattle, Washington

Vapor probes were installed in the 3 hand excavated test pits in the basement of 5221. The vapor probes consisted of a 6-inch length of 12-inch diameter pipe attached to a sampling barb. The test holes were backfilled with pea gravel. The pipes were placed with the top of the sampling barb just below the top of the existing slab. The pea gravel extended up to the base of the existing slab. The holes were patched with concrete. A metal electrical junction service box was placed in the concrete patch to provide a flush access box for the sampling barb. Prior to sampling, a vacuum pump was used to develop the probes.

Vapor samples were placed into laboratory-prepared 400 ml Summa Canisters. The canisters were provided with a flow control to limit sampling to a rate of 500 ml per minute. Each sample was given unique sample identification. All samples were delivered to H and P Mobile Geochemistry of Carlsbad, California. Chain of custody protocols were followed for all samples.

All testing was performed within the designated holding times. At the laboratory, standard quality control procedures were followed. All testing was within normal standards.

Based on our review of the laboratory data, it is our opinion that the results are acceptable for current use.



Mr. Chuck Lie Terra Associates 12525 Willows Rd. #101 Kirkland, WA 98034

H&P Project: MC070611-10

Client Project: 6552

Dear Mr. Chuck Lie:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 06-Jul-11 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- **Quality Control Summary**
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal /Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

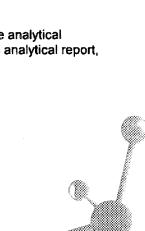
2470 Impala Drive, Garlsbad , California 92010 p. 760.804.9678 — Fax. 760.804.9159

1855 Coronado Avenue, Signal Hill, California 90755

www.HandPmg.com r 1-800-834-9888

14 July 2011





Page 1 of 15



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034

Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported:

14-Jul-11 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-3	E107012-01	Vapor	29-Jun-11	06-Jul-11
VP-2	E107012-02	Vapor	29-Jun-11	06-Jul-11
Ambient Basement Air	E107012-03	Vapor	29-Jun-11	06-Jul-11



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported:

14-Jul-11 13:35

APH by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-3 (E107012-01) Vapor Sampled:	29-Jun-11 Received: 06-J	ul-11	•						
TPHv (C5 - C8) aliphatic	2200	500	ug/m3	5	EG11103	08-Jul-11	08-Jul-11	MA APHm	
TPHv (C9 - C12) aliphatic	55000	500	ti .	**	tt	11	"	11	
TPHv (C9 - C10) aromatic	ND	500	tt	11	u	u	11	11	
VP-2 (E107012-02) Vapor Sampled:	29-Jun-11 Received: 06-J	ul-11							
TPHv (C5 - C8) aliphatic	5500	500	ug/m3	5	EG11103	08-Jul-11	08-Jul-11	MA APHın	
TPHv (C9 - C12) aliphatic	90000	500	"	н	**	ii .	11	Ħ	
TPHv (C9 - C10) aromatic	ND	500	11	H	v	"	u	11	
Ambient Basement Air (E107012-03)	Vapor Sampled: 29-Jun-	1 Receive	d: 06-Jul-1	1					
TPHv (C5 - C8) aliphatic	560	100	ug/m3	1	EG11103	08-Jul-11	08-Jul-11	МА АРНт	
TPHv (C9 - C12) aliphatic	710	100	n	**	"	**	"	"	
TPHv (C9 - C10) aromatic	ND	100	11	**	"	н	**	**	



Terra Associates

12525 Willows Rd. #101

Kirkland, WA 98034

Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-3 (E107012-01) Vapor Sampled: 29-Jun-1	1 Received: 06-	Jul-11							R-0
Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EG11103	08-Jul-11	08-Jul-11	EPA TO-15	
Chloromethane	ND	10	"	n	"	ч	11	Ħ	
Dichlorotetrafluoroethane (F114)	ND	35	H	"	11	"	11	**	
Vinyl chloride	ND	13	**	**	**	**	n	55 ·	
Bromomethane	ND	79	Ħ	tt		**	Ħ	**	
Chloroethane	ND	40	rt	#1	**	11	n	11	
Trichlorofluoromethane (F11)	ND	28	**	11	n	н	11	11	
Acetone	570	120	"	"	11	tt	**	11	
1,1-Dichloroethene	ND	20	11	11	11	n	**	n	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	11	**	11	**	"	"	
Methylene chloride (Dichloromethane)	ND	18	#	**	u	11	11	11	
Carbon disulfide	ND	32	tr	**	n .	n n	"	n	
trans-1,2-Dichloroethene	ND	40	tt	"	"	Ħ	#	**	
1,1-Dichloroethane	ND	21	tı.	*	**	H	**	**	
2-Butanone (MEK)	ND	150	**	**	Ħ	,,	**		
cis-1,2-Dichloroethene	ND	20	**	11	**	11	"	"	
Chloroform	ND	25	11	**	"	"	*1	"	
1,1,1-Trichloroethane	ND	28	11	**	**	"	#1	11	
1,2-Dichloroethane (EDC)	ND	21	Ħ			n	11	**	
Benzene	ND	16	**	"	"	"	н	n	
Carbon tetrachloride	ND	32	"	"	"	"		H.	
Trichloroethene	ND	27	**	**	**	**	н	11	
1,2-Dichloropropane	ND	47	**	n	n	11	n	"	
Bromodichloromethane	ND	34	11	**	**	"	н	39	
cis-1,3-Dichloropropene	ND	23	11	"	**	**	n	11	
4-Methyl-2-pentanone (MIBK)	ND	41	**	"	**	n	11	11	
trans-1,3-Dichloropropene	ND	23	*1	**	**	n	rr ·	11	
Toluene	48	19	**	"	**		11	**	
1,1,2-Trichloroethane	ND	28	**	**	**	ţı.	tr	π	
2-Hexanone (MBK)	ND	41	**	11	41	"	,,	"	
Dibromochloromethane	ND	43	**	11	11	11	**	**	
Tetrachloroethene	ND	34	11	**	11	31	**	n	
1,2-Dibromoethane (EDB)	ND	39	19	**	п	11	**	"	
1,1,1,2-Tetrachloroethane	ND	35	**	**	"	11	n	"	
Chlorobenzene	ND	23	11	**		11	11	"	
Ethylbenzene	ND	22	"	,,	9	н	Ħ	"	
m,p-Xylene	ND	44		"	**	н	н		
Styrene	ND	22			n				



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034

Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15

	Popult	Reporting	3.7. %	Dilution	Detal	D	A1 1) 4 - d d	Notes
Analyte	Result	Limit	Units	Factor	Batch	Prepared	Analyzed	Method	notes
VP-3 (E107012-01) Vapor Sampled: 29-Jun-1	Received: 06-	Jul-11							R-0:
o-Xylene	ND	22	ug/m3	5	EG11103	08-Jul-11	08-Jul-11	EPA TO-15	
Bromoform	ND	52	. "	11	"	"	Ħ	11	
1,1,2,2-Tetrachloroethane	ND	35	11	Ħ	11	н	**	11	
4-Ethyltoluene	ND	25	**	**	**	**	11	ii	
1,3,5-Trimethylbenzene	ND	25	n	**	"	11	**	"	
1,2,4-Trimethylbenzene	ND	25	"	n	"	n	"	n	
1,3-Dichlorobenzene	ND	61	n	**	11	11	"	11	
1,4-Dichlorobenzene	ND	61	**	"	H	11	11	n .	
1,2-Dichlorobenzene	ND	61		"	**	*1	**	"	
1,2,4-Trichlorobenzene	ND	38	11	н	Ħ	Ħ	**	11	
Hexachlorobutadiene	ND	54	п	11	11	n	11	п	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	76-	134	"	,,	"	n	
Surrogate: Toluene-d8		100 %	78-		,,	"	,,	n	
Surrogate: 4-Bromofluorobenzene		104 %		127	"	"	,,	н	
VP-2 (E107012-02) Vapor Sampled: 29-Jun-1	1 Pacaivad: 06.								R-0
Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EG11103	08-Jul-11	08-Jul-11	EPA TO-15	
Chloromethane	ND	10	#g/1115	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	35	**	"	**	**	**	**	
Vinyl chloride	ND	13	**	,,		**	**	11	
Bromomethane	ND ND	79	**	11	11	11	**	"	
Chloroethane	ND	40	**	19	11	н	**	11	
Trichlorofluoromethane (F11)	ND ND	28	11	"	11	H.		10	
	850	120	15	"	"	h	11	#	
Acetone	ND	20		**	,,	11	"	"	
1,1-Dichloroethene	_	39	,,	"	n	**	**	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND		н	11	*1	11	,,	**	
Methylene chloride (Dichloromethane)	ND ND	18 32	11		ıı	**	**	91	
Carbon disulfide	ND ND	32 40	"		"	11	"		
trans-1,2-Dichloroethene			"	,,	**	**	n	**	
1,1-Dichloroethane	ND	21		11	n	11	"	11	
2-Butanone (MEK)	ND	150	n	,,	,,	**	,,	11	
cis-1,2-Dichloroethene	ND	20	"		"		,,	11	
Chloroform	ND	25			,,	**			
1,1,1-Trichloroethane	ND	28	,, ,,	,,	"	**	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16 32			n 				
Carbon tetrachloride	ND		11	11	**	11	**	11	



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15

		C. 1110011							
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-2 (E107012-02) Vapor Sampled: 29-Jun-1	1 Received: 06	-Jul-11			, , , , , , , , , , , , , , , , , , , 			***************************************	R-05
Trichloroethene	ND	27	ug/m3	5	EG11103	08-Jul-11	08-Jul-11	EPA TO-15	
1,2-Dichloropropane	ND	47	ti	11	11	и	**	Tt.	
Bromodichloromethane	ND	34	"	n	"	**	н	h	
cis-1,3-Dichloropropene	ND	23	**	11	Ħ	H	"	11	
4-Methyl-2-pentanone (MIBK)	ND	41	**	**	**	11	#	91	
trans-1,3-Dichloropropene	ND	23	**	11	"	"	"	н	
Toluene	67	19	н	11	**	n	11	**	
1,1,2-Trichloroethane	ND	28	**	**	11	Ħ	n	11	
2-Hexanone (MBK)	ND	41	"	**	,,	11	"	**	
Dibromochloromethane	ND	43	11	ŧ	n	ŧI	•	"	
Tetrachloroethene	ND	34	n	tt	**	"	**	n	
1,2-Dibromoethane (EDB)	ND	39	n	н	"	**	11	н	
1,1,1,2-Tetrachloroethane	ND	35	u	n	"	**	"	"	
Chlorobenzene	ND	23	**	Ħ	11	**	**	u	
Ethylbenzene	23	22	**	,,	"	11	**	"	
m,p-Xylene	51	44	**	"	"	Ħ	"	n	
Styrene	ND	22	**	"	Ħ	Ħ	*	n	
o-Xylene	25	22	**	11	**	**	"	"	
Bromoform	ND	52		**	11		"	n	
1,1,2,2-Tetrachloroethane	ND	35	**	"	u	**	"	"	
4-Ethyltoluene	·ND	25	н	n	n	#1	n	n	
1,3,5-Trimethylbenzene	ND	25	**	"	**		n	n	
1,2,4-Trimethylbenzene	ND	25	n	и	"	17	"	и	
1,3-Dichlorobenzene	ND	61	**	11	**	Ħ	n	0	
1,4-Dichlorobenzene	ND	61	**	Ħ	11	н	н	"	
1,2-Dichlorobenzene	ND	61	**	"	n	"	"	n	
1,2,4-Trichlorobenzene	ND	38	**	"	**	u	**	**	
Hexachlorobutadiene	ND	54	11	11	н	"	11	***	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	76	í-134	,,	"	n	n	
Surrogate: Toluene-d8		99.7 %	78	R-125	n	n	n	"	
Surrogate: 4-Bromosluorobenzene		102 %	77	-127	u	#	"	II .	



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Ambient Basement Air (E107012-03) Vapor	Sampled: 29-Jun-11	Receive	d: 06-Jul-11						
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG11103	08-Jul-11	08-Jul-11	EPA TO-15	
Chloromethane	ND	2.1	tr	п	11	17	п	н	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	, tr	"	11	**		
Vinyl chloride	ND	2.6	Ħ	"	11	n	**	11	
Bromomethane	ND	16	n	**	**	u		11	
Chloroethane	ND	8.0	"	**	n	"	lt	и	
Trichlorofluoromethane (F11)	ND	5.7	31	**	16	,,	n	rr	
Acetone	40	24	#	n	n	**	н	n	
1,1-Dichloroethene	ND	4.0	**	н	н	**	H	н	
1.1.2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	**	,,	**	
Methylene chloride (Dichloromethane)	10	3.5	11	11	#	***	17	11	
Carbon disulfide	ND	6.3	0	н	н	11	Ħ	н	
trans-1,2-Dichloroethene	ND	8.0	**	n	W	п	**	n	
1.1-Dichloroethane	ND	4.1	n	11	17	H	**	11	
2-Butanone (MEK)	ND	30	11		ŧ	11	**	n	
cis-1,2-Dichloroethene	ND	4.0	u .	11	n	и	**	11	
Chloroform	ND	5.0	u	**	n	**	**	n.	
1,1,1-Trichloroethane	ND	5.5	,,	**	11	lt	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	n	11	n	**	n	**	
Benzene	4.5	3.2	"	н	11	**	**	**	
Carbon tetrachloride	ND	6.4	"	,,	11	11	"	n .	
Trichloroethene	ND	5.5	n		u		,,	11	
1,2-Dichloropropane	ND	9.4	н	11	н	11	n	n .	
Bromodichloromethane	ND	6.8	"	**	**	11	**	TI .	
cis-1,3-Dichloropropene	ND	4.6	11	"	"	**	**	n	
4-Methyl-2-pentanone (MIBK)	ND	8.3	tı	**	17	Ħ	11	n	
trans-1,3-Dichloropropene	ND	4.6	**	*	n	**	n	n	
Toluene	48	3.8		ы	11	11	n	n .	
1,1,2-Trichloroethane	ND	5.5	**		"		,,	11	
2-Hexanone (MBK)	ND	8.3	13		"	**	**	11	
Dibromochloromethane	ND	8.6	H	11	н	12	11	н	
Tetrachloroethene	ND	6.9	**	п	n	#	н	"	
1,2-Dibromoethane (EDB)	ND	7.8	*1	н	,,	n	"	**	
1,1,1,2-Tetrachloroethane	ND	7.0	*1	"	n	11	"	v	
Chlorobenzene	ND	4.7	11	11	n	11	n	n	
Ethylbenzene	14	4.4	**	н	**	n	**	**	
, N	20	8.8	"	"	**	н	tt	н	
m,p-Xylene Styrene	4.7	4.3		**	11		н		



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported:

14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Ambient Basement Air (E107012-03) Vapor	Sampled: 29-Jun-11	Receive	d: 06-Jul-11						
o-Xylene	13	4.4	ug/m3	1	EG11103	08-Jul-11	08-Jul-11	EPA TO-15	
Bromoform	ND	10	и	11	n	n	17	ti	
1,1,2,2-Tetrachloroethane	ND ND	7.0	и .	11	11	n	25	11	
4-Ethyltoluene	ND	5.0	п	••	tt	и	"	"	
1,3,5-Trimethylbenzene	ND	5.0	Ħ	••	n	**	11		
1,2,4-Trimethylbenzene	13	5.0	H .	#	"	n	н	u	
1,3-Dichlorobenzene	ND	12	**	н	11	**	n	Ħ	
1,4-Dichlorobenzene	ND	12	**	н	h	11	,,	er	
1,2-Dichlorobenzene	ND	12	11			н	n	**	
1,2,4-Trichlorobenzene	ND	7.5	tt	n	**	#	11	Ħ	
Hexachlorobutadiene	ND	11	11	11	11	"	n	"	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	76-13	34	"	,,	#	"	
Surrogate: Toluene-d8		99.4 %	78-12	?5	"	"	#	#	
Surrogate: 4-Bromofluorobenzene		102 %	77-12	?7	"	rr .	"	#	



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

APH by EPA TO-15 - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	 Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG11103 - TO-15	 									
Blank (EG11103-BLK1)				Prepared &	Analyzed	08-Jul-11				
TPHv (C5 - C8) aliphatic	ND	100	ug/m3							
TPHv (C9 - C12) aliphatic	ND	100	"							
TPHv (C9 - C10) aromatic	ND	100	Ħ							



Terra Associates 12525 Willows Rd. #101

Kirkland, WA 98034

Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG11103 - TO-15						•				
Blank (EG11103-BLK1)				Prepared &	k Analyzed:	08-Jul-11				
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3							
Chloromethane	ND	2.1	**							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	**							
Chloroethane	ND	8.0	н							
Trichlorofluoromethane (F11)	ND	5.7	н							
Acetone	ND	24	н							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	O							
Methylene chloride (Dichloromethane)	ND	3.5	19							,
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	n							
1,1-Dichloroethane	ND	4.1	u							
2-Butanone (MEK)	ND	30	u							
cis-1,2-Dichloroethene	ND	4.0								
Chloroform	ND	5.0	0							
1,1,1-Trichloroethane	ND	5.5	n							
1,2-Dichloroethane (EDC)	ND	4.1	**							
Benzene	ND	3.2	**							
Carbon tetrachloride	ND	6.4	**							
Trichloroethene	ND	5.5	n							
1,2-Dichloropropane	ND	9.4	n							
Bromodichloromethane	ND	6.8	**							
cis-1,3-Dichloropropene	ND	4.6	н							
4-Methyl-2-pentanone (MIBK)	ND	8.3	ĸ							
trans-1,3-Dichloropropene	ND	4.6	**							
Toluene	ND	3.8	11							
1,1,2-Trichloroethane	ND	5.5	11							
2-Hexanone (MBK)	. ND	8.3	11							
Dibromochloromethane	ND	8.6	11							
Tetrachloroethene	ND	6.9	**							
1,2-Dibromoethane (EDB)	ND	7.8	**							
1,1,1,2-Tetrachloroethane	ND	7.0	n							



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Kesun	Limit	Cints	Levei	TC3UII	/UICEC	Limits	λι D	Lann	110105
Batch EG11103 - TO-15										
Blank (EG11103-BLK1)				Prepared &	& Analyzed:	08-Jul-11				
Chlorobenzene	ND	4.7	ug/m3							
Ethylbenzene	ND	4.4	**							
ın,p-Xylene	ND	8.8	**							
Styrene	ND	4.3	**							
o-Xylene	ND	4.4	n							
Bromoform	ND	10	**							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	**							
1,3,5-Trimethylbenzene	ND	5.0	11							
1,2,4-Trimethylbenzene	ND	5.0	ti							
1,3-Dichlorobenzene	ND	12	*1							
1,4-Dichlorobenzene	ND	12								
1,2-Dichlorobenzene	ND	12								
1,2,4-Trichlorobenzene	ND	7.5	**							
Hexachlorobutadiene	ND	11	"							
Surrogate: 1,2-Dichloroethane-d4	194		n	214		90.6	76-134			
Surrogate: Toluene-d8	207		"	207		100	78-125			
Surrogate: 4-Bromofluorohenzene	357		r	365		98.0	77-127			
LCS (EG11103-BS1)				Prepared &	& Analyzed	: 08-Jul-11				
Dichlorodifluoromethane (F12)	89	5.0	ug/m3	101	y	88.2	65-135			
Vinyl chloride	56	2.6	"	52.0		108	65-135			
Chloroethane	61	8.0	11	53.6		113	65-135			
Trichlorofluoromethane (F11)	99	5.7	"	113		87.1	65-135			
1,1-Dichloroethene	76	4.0	**	80.8		94.6	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	150	7.7	**	155		96.2	65-135			
Methylene chloride (Dichloromethane)	67	3.5	н	70.8		94.1	65-135			
trans-1.2-Dichloroethene	83	8.0	Ħ	80.8		103	65-135			
1,1-Dichloroethane	84	4.1	н	82,4		102	65-135			
cis-1,2-Dichloroethene	78	4.0	n	80.0		97.0	65-135			
Chloroform	94	5.0	"	99.2		94.4	65-135			
1,1,1-Trichloroethane	100	5.5	,,	111		91.2	65-135			
1,1,1-1110HOLOCHIMIC	75	4.1	····· · · · · · · · · · · · · · · · ·	82.4		90.8	65-135			



Terra Associates 12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported: 14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15 - Quality Control

	n •	Reporting	11 4	Spike	Source	A/DEC	%REC	DDD	RPD	N I .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG11103 - TO-15			·							
LCS (EG11103-BS1)				Prepared &	Analyzed:	08-Jul-11				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Benzene	67	3.2	ug/m3	64.8		103	65-135			
Carbon tetrachloride	120	6.4	**	128		92.6	65-135			
Trichloroethene	110	5.5	**	110		98.6	65-135			
Toluene	74	3.8	**	76.8		96.0	65-135			
1,1,2-Trichloroethane	110	5.5	**	111		99.6	65-135			
Tetrachloroethene	130	6.9	n	138		92.3	65-135			
1,1,1,2-Tetrachloroethane	150	7.0	**	140		108	65-135			
Ethylbenzene	97	4.4	**	88.4		110	65-135			
m,p-Xylene	200	8.8	R	177		112	65-135			
o-Xylene	100	4.4	**	88.4		117	65-135			
1,1,2,2-Tetrachloroethane	180	7.0	n	140		128	65-135			
Surrogate: 1,2-Dichloroethane-d4	193		n	214		90.2	76-134			
Surrogate: Toluene-d8	206		,,	207		99.5	78-125			
Surrogate: 4-Bromofluorohenzene	362		,,	365		99.4	77-127			
LCS Dup (EG11103-BSD1)				Prepared &	2 Analyzed:	08-Jul-11				
Dichlorodifluoromethane (F12)	91	5.0	ug/m3	101		90.6	65-135	2.67	35	
Vinyl chloride	55	2.6	"	52.0		106	65-135	1.71	35	
Chloroethane	59	8.0	**	53.6		111	65-135	2.14	35	
Trichlorofluoromethane (F11)	97	5.7	"	113		85.4	65-135	1.98	35	
1,1-Dichloroethene	74	4.0	11	80.8		91.8	65-135	2.99	35	
1,1,2-Trichlorotrifluoroethane (F113)	150	7.7	"	155		95.4	65-135	0.882	35	
Methylene chloride (Dichloromethane)	64	3.5	*1	70.8		90.8	65-135	3.50	35	
trans-1,2-Dichloroethene	82	8.0	n	80.8		102	65-135	1.31	35	
1,1-Dichloroethane	84	4.1	н	82.4		102	65-135	0.0488	35	
cis-1,2-Dichloroethene	81	4.0	h	80.0		101	65-135	4.16	35	
Chloroform	94	5.0	Ħ	99.2		94.6	65-135	0.211	35	
1,1,1-Trichloroethane	100	5.5	**	111		90.9	65-135	0.272	35	
1,2-Dichloroethane (EDC)	76	4.1	**	82.4		92.2	65-135	1.53	35	
Велгене	67	3.2	**	64.8		103	65-135	0.340	35	
Carbon tetrachloride	120	6.4	17	128		93.2	65-135	0.643	35	
Trichloroethene	110	5.5	**	110		101	65-135	2.44	35	
Toluene	73	3.8	**	76.8		94.8	65-135	1.20	35	



Terra Associates

12525 Willows Rd. #101 Kirkland, WA 98034 Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported:

14-Jul-11 13:35

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry, Inc.

1.14	D lu	Reporting	11-14-	Spike	Source	0/DEC	%REC	nno	RPD	N 7
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG11103 - TO-15										
LCS Dup (EG11103-BSD1)				Prepared &	Analyzed:	08-Jul-11		-		
1,1,2-Trichloroethane	110	5.5	ug/in3	111		101	65-135	1.53	35	
Tetrachloroethene	130	6.9	n	138		91.5	65-135	0.865	35	
1,1,1,2-Tetrachloroethane	150	7.0	**	140		109	65-135	0.827	35	
Ethylbenzene	98	4.4	**	88.4		111	65-135	0.630	35	
m,p-Xylene	200	8.8	91	177		112	65-135	0.355	35	
o-Xylene	100	4.4	11	88.4		114	65-135	2.07	35	
1,1,2,2-Tetrachloroethane	180	7.0	11	140		130	65-135	1.12	35	
Surrogate: 1,2-Dichloroethane-d4	197		"	214		91.8	76-134			
Surrogate: Toluene-d8	208		"	207		100	78-125			
Surrogate: 4-Bromofluorobenzene	365		,,	365		100	77- 12 7			



Terra Associates

12525 Willows Rd. #101

Kirkland, WA 98034

Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported:

14-Jul-11 13:35

Notes and Definitions

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Terra Associates

12525 Willows Rd. #101

Kirkland, WA 98034

Project: MC070611-10

Project Number: 6552

Project Manager: Mr. Chuck Lie

Reported:

14-Jul-11 13:35

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS Certificate# 2742, 2745, & 2741 approved for LUFT Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry. Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2.4-Trichlorobenzene by EPA TO-15 & TO-14A Hexachlorobutadiene by EPA TO-15 & TO-14A

1,2,4-Trimethylbenzene by EPA TO -14A

1.2-Dichlorobenzene by EPA TO-15 & TO-14A

1,3,5-Trimethylbenzene by EPA TO -14A

1.4-Dichlorobenzene by EPA TO-15 & TO-14A Benzene by EPA TO-15 & TO-14A

Chlorobenzene by EPA TO-15 & TO-14A

Ethyl benzene by EPA TO-15 & TO-14A

Styrene by EPA TO-15 & TO-14A

Toluene by EPA TO-15 & TO-14A Total Xylenes by EPA TO-15 & TO-14A

1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A

1,1,2-Trichloroethane by EPA TO-15 & TO-14A

1.1-Dichloroethane by EPA TO-15 & TO-14A 1,1-Dichloroethene by EPA TO-15 & TO-14A

1,2-Dichlorocthane by EPA TO-15 & TO-14A

1,2-Dichloropropane by EPA TO-15 & TO-14A

Bromoform by EPA TO-15

Bromomethane by EPA TO-15 & TO-14A Carbon tetrachloride by EPA TO-15 & TO-14A

Chloroethane by EPA TO-15 Chloroform by EPA TO-15 & TO-14A

Chloromethane by EPA TO-15 & TO-14A cis-1,2-Dichloroethene by EPA TO-15 cis-1,2-Dichloropropene by EPA TO-15 & TO-14A

Methylene chloride by EPA TO-15 & TO-14A Tetrachloroethane by EPA TO-15 & TO-14A

trans-1,2-Dichloroethene by EPA TO-15 trans-1,2-Dichloropropene by EPA TO-15 & TO-14A

Trichloroethene by EPA TO-15 & TO-14A

Vinyl chloride by EPA TO -15 & TO-14A 2-Butanone by EPA TO-15

4-Methyl-2-Pentanone by EPA TO-15 Hexane by EPA TO-15

Methyl tert-butyl ether by EPA TO-15

Vinyl acetate by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Mobile Geochemistry Inc.

Chain of Custody Record

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159

1855 Coronado Aire., Signal Hill, CA 90755 • ph 800.834.9888

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APPENDIX F MTCA TPH 11.1 SUMMARIES

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Dite Mijornica	****	
Date:	05/24/11	
Site Name:	5221 Ballard Ave	
Sample Name:	B-103 at 10 feet	
	·	

Chemical of Concern	Measured Soil Conc	Composition
or Equivalent Carbon Group	dry basis	Ratio
•	mg/kg	%
Petroleum EC Fraction		
AL_EC >5-6	2.5	0.13%
AL_EC >6-8	2.5	0.13%
AL_EC >8-10	46	2.33%
AL_EC >10-12	1100	55.76%
AL_EC >12-16	240	12.17%
AL_EC >16-21	2.5	0.13%
AL_EC >21-34	46	2.33%
AR_EC >8-10	95	4.82%
AR_EC >10-12	260	13.18%
AR_EC >12-16	52	2.64%
AR_EC >16-21	33	1.67%
AR_EC >21-34	93	4.71%
Benzene	0	0.00%
Foluene	0	0.00%
Ethylbenzene	0	0.00%
Total Xylenes	0	0.00%
Naphthalene	0.019	0.00%
I-Methyl Naphthalene	0.0038	0.00%
2-Methyl Naphthalone	0.0038	0.00%
n-Hexane	0	0.00%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.035	0.00%
Benzo(b)fluoranthene	0.039	0.00%
Benzo(k)fluoranthene	0.035	0.00%
Benzo(a)pyrene	0.067	0.00%
Chrysene	0.046	0.00%
Dibenz(a,h)anthracene	0.0092	0.00%
ndeno(1,2,3-cd)pyrene	0.038	0.00%
Sum	1972.7958	100.00%
3. Enter Site-Specific H	vdrogeological Da	ıta
Total soil porosity:	0.43	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.13	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.001	Unitless
Dilution Factor:	20	Unitless
1. Target TPH Ground W		ı <u>ı aajusted)</u>
f you adjusted the target TPH gr		,/ĭ
concentration, enter adjusted value here;	1,000	ug/L

Notes for Data Entry Set Default Hydrogeology	
Clear All Soil Concentration Data Entry Cells	
Restore All Soil Concentration Data cleared previously	
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A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 5/24/2011

Site Name: 5221 Ballard Ave Sample Name: B-103 at 10 feet

Measured Soil TPH Concentration, mg/kg:

1,972,796

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil	With Measu	red Soil Conc	Does Measured Soil	
Exposure Fathway	Methodody	TPH Conc, mg/kg	RISK @	ні @	Conc Pass or Fail?	
Protection of Soil Direct	Method B	2,171	8.01E-07	1.97E+00	Fail	
Contact: Human Health	Method C	36,138	1.99E-07	5.46E-02	Pass	
Protection of Method B Ground	Potable GW: Human Health Protection	129	2.13E-10	1.50E+00	Fail	
Water Quality (Leaching)	Target TPH GW Conc. @ 1000 ug/L	100% NAPL	NA	NA	Pass	

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494).

Warning! Check Residual Saturation (WAC340-747(10)).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	2,171.22	36,137.90
Most Stringent Criterion	HI =1	HI =1

	Pro	tective Soil Concentra	Protective Soil Concentration @Method C						
Soil Criteria	Most Stringent?	TPH Conc, mg/kg	RISK @	ні @	Most Stringent?	TPH Conc, mg/kg	RISK @	ні @	
HI =1	YES	2.17E+03	4.07E-07	1.00E+00	YES	3.61E+04	3.64E-06	1.00E+00	
Total Risk=1E-5	אס	5.33E+04	1.00E-05	2.46E+01	NO	9.91E+04	1.00E-05	2.74E+00	
Risk of Benzene= 1E-6	NA	NA	NA	NA		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
Risk of cPAHs mixture= 1E-6	NO	5.33E+03	1.00E-06	2.46E+00	1	3. T. A			
EDB	NA	NA	NA	NA	1	NA			
EDC	NA	NA	NA.	NA					

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

5.1. Protection of Potable Ground Water Quanty (Method B): Human Fleatin Protection							
Most Stringent Criterion	HJ=1						
Protective Ground Water Concentration, ug/L	249.93						
Protective Soil Concentration, mg/kg	128.73						

Ground Water Criteria	Protective	Protective Potable Ground Water Concentration @Method B						
Offund Water Criteria	Most Stringent?	TPH Conc, ug/L	RISK @	HI@	Conc, mg/kg			
]{]=]	YES	2.50E+02	2.50E-10	1.00E+00	1.29E+02			
Total Risk = 1E-5	NO	4.27E+02	2.10E-10	1.55E+00	100% NAPL			
Total Risk = 1E-6	NO	4.27E+02	2.10E-10	1.55E+00	100% NAPL			
Risk of cPAHs mixture= 1E-5	NO	4.27E+02	2.10E-10	1.55E+00	100% NAPL			
Benzene MCL = 5 ug/L	NA	NA	NA	NA	NA			
MTBE = 20 ug/L	NA	NA	NA	NA	NA			

Note: 100% NAPL is 69000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective	Protective Soil		
Ground Water Criteria	TPH Conc, ug/L	Risk @	HI @	Conc, mg/kg
Target TPH GW Conc = 1000 ug/L	4.27E+02	2.10E-10	1.55E+00	100% NAPL

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information	
Date: 05/24/1	ij
Site Name: 5221 I	Ballard Ave
Sample Name: B-102	at 10 feet

2. Enter Soil Concentrat	ion Measured		Notes for Data Entry Set Default Hydrogeology
Chemical of Concern	Measured Soil Cone	Composition	Clear All Soil Concentration Data Entry Cells
or Equivalent Carbon Group	dry basis	Ratio	
	mg/kg	%	Restore All Soil Concentration Data cleared previously
Petroleum EC Fraction			
AL_EC >5-6	2.5	0.05%	
AL_EC >6-8	2.5	0.05%	REMARK:
AL_EC >8-10	37	0.77%	
AL_EC >10-12	3400	70,36%	
AL_EC >12-16	120	2.48%	·
AL_EC >16-21	2.5	0.05%	
AL_EC >21-34	2.5	0.05%	
AR_EC >8-10	340	7.04%	
AR_EC >10-12	820	16.97%	
AR_EC >12-16	100	2.07%	
AR_EC > 16-21	2.5	0.05%	
AR_EC >21-34	2.5	0.05%	·
Benzene	0	0.00%	
Toluenc	0	0.00%	
Ethylbenzene	0	0.00%	
Total Xylenes	0	0.00%	
Naphthalene	0.011	0.00%	
I-Methyl Naphthalenc	0.0039	0.00%	
2-Methyl Naphthalene	0.0097	0.00%	
n-Hexane	0	0.00%	
МТВЕ	0	0.00%	
Ethylene Dibromide (EDB)	0	0.00%	
1,2 Dichloroethane (EDC)	0	0.00%	
Benzo(a)anthracene	0.0093	0.00%	
Benzo(b)fluoranthene	0.0084	0.00%	
Benzo(k)fluoranthene	0.0087	0.00%	
Benzo(a)pyrene	0.014	0.00%	
Chrysene	0,011	0.00%	
Dibenz(a,h)anthracene	0.0039	0.00%	
Indeno(1,2,3-cd)pyrene	0.0039	0.00%	
Sum	4832.0838	100.00%	
3. Enter Site-Specific H	ydrogeological De	uta	
Total soil porosity:	0.43	Unitless	
Volumetric water content:	0.3	Unitless	
Volumetric air content:	0.13	Unitless	
Soil bulk density measured:	1.5	kg/L	
Fraction Organic Carbon:	0.001	Unitless	
Dilution Factor:	1	Unitless	
4. Target TPH Ground W	1		╣ ፤
If you adjusted the target TPH gr		ij uujusieu)	
concentration, enter adjusted	1,000	ug/L	
value here:	1,000	J "6/L	

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 5/24/2011
Site Name: 5221 Ballard Ave
Sample Name: B-102 at 10 feet

Measured Soil TPH Concentration, mg/kg:

4,832.084

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil	With Measur	red Soil Conc	Does Measured Soil	
Exposure Famway	Method/Goal	TPH Conc, mg/kg	RISK @	ні @	Conc Pass or Fail?	
Protection of Soil Direct (Method B	2,136	1.69E-07	2,26E+00	Fail	
Contact: Human Health	Method C	40,772	4.20E-08	1.19E-01	Pass	
Protection of Method B Ground	Potable GW: Human Health Protection	2	3.68E-10	3.78E+01	Fail	
Water Quality (Leaching)	Target TPH GW Conc. @ 1000 ug/L	9	NA	NA	Fail	

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494). Warning! Check Residual Saturation (WAC340-747(10)).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	2,136.42	40,771.51
Most Stringent Criterion	HI =1	HI =1

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	H1@	Most Stringent?	TPH Conc, mg/kg	RISK @	ні @
HI =1	YES	2.14E+03	7.48E-08	1.00E+00	YES	4.08E+04	3.54E-07	1.00E+00
Total Risk=1E-5	NO	2.86E+05	1.00E-05	1.34E+02	NO	1.15E+06	1.00E-05	2.82E+01
Risk of Benzene= 1E-6	NA	NA	NA	NA				
Risk of cPAHs mixture= 1E-6	NO	2.86E+04	1.00E-06	1.34E+01	NA			
EDB	NA	NA	NA	NA				
EDC	NA NA	NA	NA	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	HI=1
Protective Ground Water Concentration, ug/L	237,49
Protective Soil Concentration, mg/kg	2.19

Ground Water Criteria	Protective	Protective Soil			
Ground Water Criteria	Most Stringent?	TPH Conc, ug/L	RISK @	HI@	Conc, mg/kg
HI=1	YES	2.37E+02	7.21E-10	1.00E+00	2.19E+00
Total Risk = 1E-5	NO	1.08E+04	3.65E-10	3.82E+01	100% NAPL
Total Risk = 1E-6	NO	1.08E+04	3.65E-10	3.82E+01	100% NAPL
Risk of cPAHs mixture= 1E-5	טא	1.08E+04	3.65E-10	3.82E+01	100% NAPL
Benzene MCL = 5 ug/L	NA NA	NA	NA	NA	NA
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 67000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective (Protective Soil		
Ground Water Criteria	TPH Conc, ug/L	Risk @	HI @	Conc, mg/kg
Target TPH GW Conc = 1000 ug/L	1.00E+03	2.99E-09	4.21E+00	9.24E+00