

July 22, 2010

Mr. James Innes
Field Operations
Michigan Department of Natural Resources and Environment
Remediation and Redevelopment Division
P.O. Box 30242
Lansing, Michigan 48909

Re: Linden Road Landfill
Quarterly Ground Water Sampling
Monitoring Results - Flint, Michigan

File: 14774/46340/Rpts/Groundwater

Dear Mr. Innes:

This report summarizes the quarterly groundwater monitoring events performed at the Linden Road Landfill site, located in Flint Township, Michigan. The sampling events were performed on February 26 and June 18, 2010 to monitor the seasonal fluctuations of vinyl chloride concentrations in monitoring wells MW-03S, MW-14S, and MW-15S.

The groundwater monitoring was in response to your November 18, 2008 letter indicating that in order for the Michigan Department of Natural Resources and Environment (MDNRE) to agree to a suspension of groundwater monitoring at the site, analytical results must be below residential groundwater protection criteria in wells MW-14S and MW-15S for four consecutive quarterly sampling events. The letter also indicated that there must be "no marked increase" in vinyl chloride in the groundwater at MW-03S. Based on the MDNRE's request, additional groundwater monitoring was initiated.

GROUNDWATER SAMPLING

Groundwater samples were collected on February 26, 2010 (winter) and June 18, 2010 (spring) from MW-03S, MW-14S, and MW-15S, as well as quality assurance and quality control (QA/QC) samples consisting of one duplicate, one equipment blank, and one trip blank. The samples were shipped under chain-of-custody to Merit Laboratories of East Lansing, Michigan and analyzed for volatile organic compounds (VOCs) using EPA Method 8260B. Table 1, attached, is a summary of the analytical results. Also attached is a figure indicating the location of the monitoring wells, and copies of the analytical reports.

SAMPLING RESULTS AND DISCUSSION

Laboratory analytical results indicated that concentrations of VOCs for the February and June 2010 sampling events were below the most restrictive Part 201 Generic Cleanup Criteria and Screening Levels with the exception of vinyl chloride. Vinyl chloride was detected in monitoring wells as follows:

Table -2 *Vinyl chloride results.*

Well	Fall 2007	Winter 2008	Summer 2008	Summer 2009	Fall 2009	Winter 2010	Spring 2010
MW-03S	8 µg/L	<1 µg/L	4 µg/L	1 µg/L	8 µg/L	7 µg/L	7 µg/L
MW-14S	45 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
MW-15S	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L

Note: Bold indicates vinyl chloride exceeds Part 201 Generic Cleanup Criteria of 2 µg/L.

Historic vinyl chloride concentrations in monitoring well MW-03S ranged from <1 µg/L to 24 µg/L for ten sampling events conducted between October 1999 through May 2005. In the seven sampling events conducted between November 2007 and June 2010, concentrations ranged from 1 µg/L to 8 µg/L.

Concentrations from monitoring well MW-14S ranged from <1 µg/L to 4 µg/L for four sampling events conducted between December 2004 to May 2005. In the seven sampling events conducted between November 2007 and February 2010, concentrations ranged from <1 µg/L to 45 µg/L with the last six events at <1 µg/L.

Concentrations from monitoring well MW-15S for the seven sampling events conducted between November 2007 and June 2010 have been <1 µg/L.

Based on the results of the current and the previous rounds of sampling, it is apparent that vinyl chloride in the shallow water-bearing zone is not migrating off site. Vinyl chloride has never been detected in down gradient well MW-15S.

Based on the February and June sample results, O'Brien & Gere proposes to reduce the frequency of groundwater monitoring to semi-annually (fall and spring) from the current quarterly schedule until a sampling event indicates that the vinyl chloride concentration in monitoring well MW-S3 is below 5 µg/L. When analytical results are below 5 µg/L in monitoring well MW-S3, a quarterly monitoring schedule will be initiated in an attempt to obtain four consecutive quarters of monitoring data below regulatory criteria. Reports will be submitted in December of each year summarizing the results of the sampling events during the year. O'Brien & Gere will implement this semi-annual schedule beginning in November 2010.

Mr. Innes
July 22, 2010
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Should you have questions or concerns about the information in this report, please contact David Favero, the MLC Project Manager, at 217.522.6714, or me at 248.225.2310.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in blue ink that reads "James M. Alfonsi". The signature is written in a cursive style with a large initial 'J'.

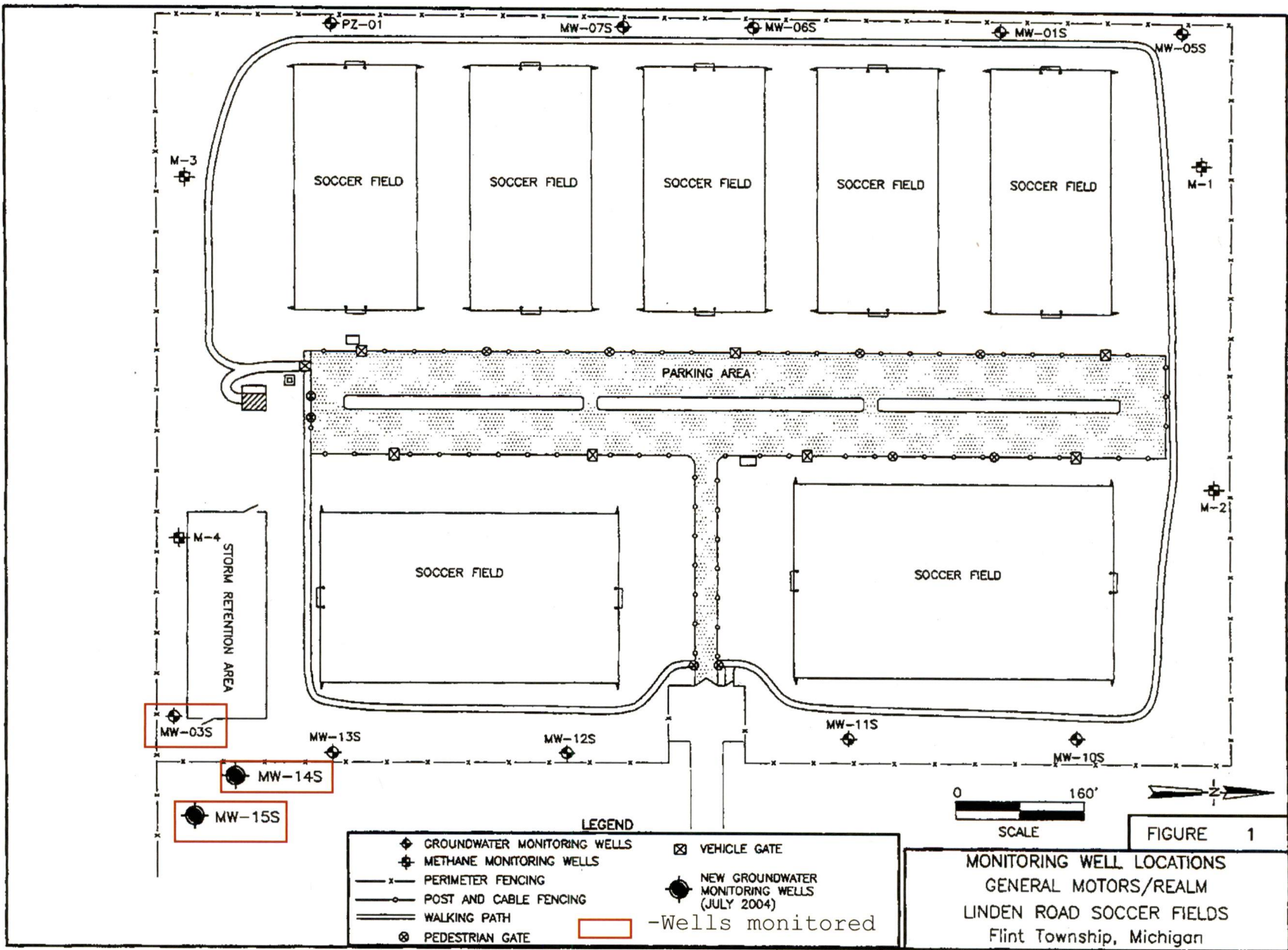
Jim Alfonsi
Project Associate

Attachments

cc: David Favero – Motors Liquidation Company

Table 1
Linden Road Landfill
Post-Closure Monitoring - Analytical Results
Volatile Organics (VOC's)

Sample Tag	Most Restrictive Part 201 Cleanup Criteria (ug/L)	MW-15S							MW-03S						MW-14S							
		11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	2/19/10	6/18/10	11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	2/19/10	6/18/10	11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	2/19/10	6/18/10
2-Butanone (MEK)	2200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20	<20	<20	<1	<1	140	20	<1	<1	<1
1,1-Dichloroethane	740	<1	<1	<1	<1	<1	<1	<1	6	2	4	2	4	3	4	2	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.3	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	70	<1	<1	<1	<1	<1	<1	<1	6	1	2	<1	3	3	4	57	3	2	<1	<1	<1	<1
trans-1,2-Dichloroethene	100	<1	<1	<1	<1	<1	<1	<1	0.2	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.7	<1	<1	<1	<1	<1	<1
Vinyl chloride	2	<1	<1	<1	<1	<1	<1	<1	8	2	4	1	8	7	7	45	<1	<1	<1	<1	<1	<1





Analytical Laboratory Report

Report ID: S44617.01(01)
Generated on 07/02/2010

Report to

Attention: Jim Alfonsi
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

Phone: 248-477-5701 FAX:
Email: alfonsjm@obg.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S44617.01-S44617.06
Project: Linden Rd. Landfill
Collected Date: 06/18/2010
Submitted Date/Time: 06/18/2010 13:30
Sampled by: Kevin Schneider
P.O. #:

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S44617.01	MW-15S	Groundwater	06/18/2010 09:05
S44617.02	MW-14S	Groundwater	06/18/2010 09:35
S44617.03	MW-03S	Groundwater	06/18/2010 11:07
S44617.04	Dup-01	Groundwater	06/18/2010
S44617.05	EB-01	Water	06/18/2010
S44617.06	TB-01	Water	06/18/2010



Analytical Laboratory Report

Lab Sample ID: S44617.01
 Sample Tag: MW-15S
 Collected Date/Time: 06/18/2010 09:05
 Matrix: Groundwater
 COC Reference: 54863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	06/24/10 14:56	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	06/24/10 14:56	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	06/24/10 14:56	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/24/10 14:56	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/24/10 14:56	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	06/24/10 14:56	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	06/24/10 14:56	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/24/10 14:56	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/24/10 14:56	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/24/10 14:56	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	06/24/10 14:56	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH		
o-Xylene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S44617.01 (continued)

Sample Tag: MW-15S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/24/10 14:56	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	06/24/10 14:56	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S44617.02
 Sample Tag: MW-14S
 Collected Date/Time: 06/18/2010 09:35
 Matrix: Groundwater
 COC Reference: 54863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	06/24/10 15:14	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	06/24/10 15:14	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	06/24/10 15:14	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/24/10 15:14	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/24/10 15:14	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	06/24/10 15:14	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	06/24/10 15:14	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/24/10 15:14	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/24/10 15:14	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/24/10 15:14	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	06/24/10 15:14	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH		
o-Xylene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S44617.02 (continued)

Sample Tag: MW-14S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/24/10 15:14	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	06/24/10 15:14	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S44617.03
 Sample Tag: MW-03S
 Collected Date/Time: 06/18/2010 11:07
 Matrix: Groundwater
 COC Reference: 54863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	06/24/10 15:32	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	06/24/10 15:32	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	06/24/10 15:32	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/24/10 15:32	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/24/10 15:32	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	06/24/10 15:32	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	74-87-3	
Vinyl chloride	7	ug/L	1	8260B	06/24/10 15:32	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	06/24/10 15:32	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/24/10 15:32	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	156-60-5	
1,1-Dichloroethane	4	ug/L	1	8260B	06/24/10 15:32	JGH	75-34-3	
cis-1,2-Dichloroethene	4	ug/L	1	8260B	06/24/10 15:32	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/24/10 15:32	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/24/10 15:32	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	06/24/10 15:32	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH		
o-Xylene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S44617.03 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/24/10 15:32	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	06/24/10 15:32	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S44617.04
 Sample Tag: Dup-01
 Collected Date/Time: 06/18/2010 :
 Matrix: Groundwater
 COC Reference: 54863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	06/24/10 15:50	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	06/24/10 15:50	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	06/24/10 15:50	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/24/10 15:50	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/24/10 15:50	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	06/24/10 15:50	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	74-87-3	
Vinyl chloride	7	ug/L	1	8260B	06/24/10 15:50	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	06/24/10 15:50	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/24/10 15:50	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	156-60-5	
1,1-Dichloroethane	4	ug/L	1	8260B	06/24/10 15:50	JGH	75-34-3	
cis-1,2-Dichloroethene	4	ug/L	1	8260B	06/24/10 15:50	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/24/10 15:50	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/24/10 15:50	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	06/24/10 15:50	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH		
o-Xylene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S44617.04 (continued)

Sample Tag: Dup-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/24/10 15:50	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	06/24/10 15:50	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S44617.05
 Sample Tag: EB-01
 Collected Date/Time: 06/18/2010 :
 Matrix: Water
 COC Reference: 54863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	06/24/10 16:08	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	06/24/10 16:08	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	06/24/10 16:08	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/24/10 16:08	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/24/10 16:08	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	06/24/10 16:08	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	06/24/10 16:08	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/24/10 16:08	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/24/10 16:08	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/24/10 16:08	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	06/24/10 16:08	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH		
o-Xylene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S44617.05 (continued)

Sample Tag: EB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/24/10 16:08	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	06/24/10 16:08	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S44617.06
 Sample Tag: TB-01
 Collected Date/Time: 06/18/2010 :
 Matrix: Water
 COC Reference: 54863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	06/24/10 16:26	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	06/24/10 16:26	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	06/24/10 16:26	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/24/10 16:26	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/24/10 16:26	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	06/24/10 16:26	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	06/24/10 16:26	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/24/10 16:26	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/24/10 16:26	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/24/10 16:26	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	06/24/10 16:26	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH		
o-Xylene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S44617.06 (continued)

Sample Tag: TB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/24/10 16:26	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	06/24/10 16:26	JGH	120-82-1	



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 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

54863

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: James Alfonsi
 COMPANY: O'Brien & Gere
 ADDRESS: 37600 Grand River Ave
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO.: 248-477-5701 FAX NO.: P.O. NO.:
 E-MAIL ADDRESS: QUOTE NO.:

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: FAX NO.: P.O. NO.:

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: Linden Rd Landfill
 SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Smedley
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

SPECIAL INSTRUCTIONS/NOTES
 VOCs by 8260B
 O'Brien & Gere will be performing data validation

MATRIX CODE: GW-GROUNDWATER SL-SLUDGE WW-WASTEWATER O-OIL S-SOIL A-AIR L-LIQUID W-WASTE SD-SOLID M-MISC

Containers & Preservatives

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER
	DATE	TIME										
44617.01	6/18/10	905	MW-15S	GW	2		2					X
.02		935	MW-14S	GW	2		2					X
.03		1107	MW-03S	GW	2		2					X
.04		-	DUP-01	GW	2		2					X
.05		-	EB-01	GW	2		2					X
.06		-	TB-01	QC	1		1					X

VOCs

Equipment Blank
 Trip Blank

RELINQUISHED BY: [Signature] OBG DATE: 6/18/10 TIME: 12:35
 RECEIVED BY: [Signature] DATE: 6-18-10 TIME: 12:35

RELINQUISHED BY: [Signature] DATE: 6-18-10 TIME: 13:30
 RECEIVED BY: [Signature] DATE: 6-18-10 TIME: 17:50

SEAL NO. SEAL INTACT YES NO INITIALS: NOTES: TEMP. ON ARRIVAL: 57.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S43445.01(01)
Generated on 03/03/2010

Report to

Attention: Jim Alfonsi/ Marianne Secrest
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington Hills, MI 48335

Phone: 248-477-5701 FAX:
Email: alfonsjm@obg.com/SecresME@obg.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S43445.01-S43445.09
Project: Linden Rd. Landfill
Collected Date: 02/17/2010 - 02/19/2010
Submitted Date/Time: 02/23/2010 13:10
Sampled by: Stephen Dehring
P.O. #:

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S43445.01	MW-15S	Groundwater	02/19/2010 13:40
S43445.02	MW-14S	Groundwater	02/19/2010 14:50
S43445.03	EQP-01	Liquid	02/19/2010 15:10
S43445.04	FB-01	Liquid	02/19/2010 15:20
S43445.05	MW-03s	Groundwater	02/19/2010 15:55
S43445.06	MW-03s MS	Groundwater	02/19/2010 15:55
S43445.07	MW-03s MSD	Groundwater	02/19/2010 15:55
S43445.08	DUP-01	Groundwater	02/19/2010 15:55
S43445.09	Trip Blank	Liquid	02/17/2010



Analytical Laboratory Report

Lab Sample ID: S43445.01
 Sample Tag: MW-15S
 Collected Date/Time: 02/19/2010 13:40
 Matrix: Groundwater
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	02/26/10 15:18	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	02/26/10 15:18	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	02/26/10 15:18	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	02/26/10 15:18	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	02/26/10 15:18	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	02/26/10 15:18	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	02/26/10 15:18	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	02/26/10 15:18	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	02/26/10 15:18	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 15:18	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	02/26/10 15:18	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH		
o-Xylene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S43445.01 (continued)

Sample Tag: MW-15S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	02/26/10 15:18	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	02/26/10 15:18	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S43445.02
 Sample Tag: MW-14S
 Collected Date/Time: 02/19/2010 14:50
 Matrix: Groundwater
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	02/26/10 15:37	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	02/26/10 15:37	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	02/26/10 15:37	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	02/26/10 15:37	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	02/26/10 15:37	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	02/26/10 15:37	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	02/26/10 15:37	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	02/26/10 15:37	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	02/26/10 15:37	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 15:37	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	02/26/10 15:37	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH		
o-Xylene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S43445.02 (continued)

Sample Tag: MW-14S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	02/26/10 15:37	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	02/26/10 15:37	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S43445.03
 Sample Tag: EQP-01
 Collected Date/Time: 02/19/2010 15:10
 Matrix: Liquid
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	02/26/10 15:55	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	02/26/10 15:55	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	02/26/10 15:55	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	02/26/10 15:55	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	02/26/10 15:55	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	02/26/10 15:55	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	02/26/10 15:55	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	02/26/10 15:55	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	02/26/10 15:55	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 15:55	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	02/26/10 15:55	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH		
o-Xylene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S43445.03 (continued)

Sample Tag: EQP-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	02/26/10 15:55	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	02/26/10 15:55	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S43445.04
 Sample Tag: FB-01
 Collected Date/Time: 02/19/2010 15:20
 Matrix: Liquid
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	02/26/10 16:13	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	02/26/10 16:13	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	02/26/10 16:13	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	02/26/10 16:13	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	02/26/10 16:13	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	02/26/10 16:13	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	02/26/10 16:13	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	02/26/10 16:13	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	02/26/10 16:13	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 16:13	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	02/26/10 16:13	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH		
o-Xylene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S43445.04 (continued)

Sample Tag: FB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	02/26/10 16:13	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	02/26/10 16:13	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S43445.05
 Sample Tag: MW-03s
 Collected Date/Time: 02/19/2010 15:55
 Matrix: Groundwater
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	02/26/10 16:31	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	02/26/10 16:31	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	02/26/10 16:31	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	02/26/10 16:31	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	02/26/10 16:31	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	02/26/10 16:31	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	74-87-3	
Vinyl chloride	7	ug/L	1	8260B	02/26/10 16:31	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	02/26/10 16:31	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	02/26/10 16:31	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	156-60-5	
1,1-Dichloroethane	3	ug/L	1	8260B	02/26/10 16:31	JGH	75-34-3	
cis-1,2-Dichloroethene	3	ug/L	1	8260B	02/26/10 16:31	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	02/26/10 16:31	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 16:31	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	02/26/10 16:31	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH		
o-Xylene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S43445.05 (continued)

Sample Tag: MW-03s

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	02/26/10 16:31	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	02/26/10 16:31	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S43445.06
 Sample Tag: MW-03s MS
 Collected Date/Time: 02/19/2010 15:55
 Matrix: Groundwater
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	30	8260B	02/26/10 18:20	JGH	76-13-1	1
Acetone	30	ug/L	20	8260B	02/26/10 18:20	JGH	67-64-1	1
Carbon disulfide	43	ug/L	5	8260B	02/26/10 18:20	JGH	75-15-0	1
Methyl Acetate	40	ug/L	10	8260B	02/26/10 18:20	JGH	79-20-9	1
tert-Methyl butyl ether (MTBE)	47	ug/L	5	8260B	02/26/10 18:20	JGH	1634-04-4	1
2-Butanone (MEK)	40	ug/L	20	8260B	02/26/10 18:20	JGH	78-93-3	1
Dichlorodifluoromethane	30	ug/L	1	8260B	02/26/10 18:20	JGH	75-71-8	1
Chloromethane	38	ug/L	1	8260B	02/26/10 18:20	JGH	74-87-3	1
Vinyl chloride	47	ug/L	1	8260B	02/26/10 18:20	JGH	75-01-4	1
Bromomethane	47	ug/L	2	8260B	02/26/10 18:20	JGH	74-83-9	1
Chloroethane	44	ug/L	1	8260B	02/26/10 18:20	JGH	75-00-3	1
Trichlorofluoromethane	57	ug/L	1	8260B	02/26/10 18:20	JGH	75-69-4	1
1,1-Dichloroethene	49	ug/L	1	8260B	02/26/10 18:20	JGH	75-35-4	1
Methylene chloride	49	ug/L	5	8260B	02/26/10 18:20	JGH	75-09-2	1
trans-1,2-Dichloroethene	53	ug/L	1	8260B	02/26/10 18:20	JGH	156-60-5	1
1,1-Dichloroethane	54	ug/L	1	8260B	02/26/10 18:20	JGH	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	8260B	02/26/10 18:20	JGH	156-59-2	1
Chloroform	53	ug/L	1	8260B	02/26/10 18:20	JGH	67-66-3	1
1,1,1-Trichloroethane	54	ug/L	1	8260B	02/26/10 18:20	JGH	71-55-6	1
Cyclohexane	49	ug/L	1	8260B	02/26/10 18:20	JGH	110-82-7	1
4-Methyl-2-pentanone (MIBK)	40	ug/L	10	8260B	02/26/10 18:20	JGH	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 18:20	JGH	591-78-6	1
Carbon tetrachloride	56	ug/L	1	8260B	02/26/10 18:20	JGH	56-23-5	1
Benzene	53	ug/L	1	8260B	02/26/10 18:20	JGH	71-43-2	1
1,2-Dichloroethane	55	ug/L	1	8260B	02/26/10 18:20	JGH	107-06-2	1
Trichloroethene	52	ug/L	1	8260B	02/26/10 18:20	JGH	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	8260B	02/26/10 18:20	JGH	78-87-5	1
Bromodichloromethane	54	ug/L	1	8260B	02/26/10 18:20	JGH	75-27-4	1
Methyl cyclohexane	50	ug/L	20	8260B	02/26/10 18:20	JGH	108-87-2	1
cis-1,3-Dichloropropene	51	ug/L	1	8260B	02/26/10 18:20	JGH	10061-01-5	1
Toluene	54	ug/L	1	8260B	02/26/10 18:20	JGH	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	8260B	02/26/10 18:20	JGH	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	8260B	02/26/10 18:20	JGH	79-00-5	1
Tetrachloroethene	50	ug/L	1	8260B	02/26/10 18:20	JGH	127-18-4	1
Dibromochloromethane	49	ug/L	1	8260B	02/26/10 18:20	JGH	124-48-1	1
1,2-Dibromoethane	47	ug/L	1	8260B	02/26/10 18:20	JGH	106-93-4	1
Chlorobenzene	52	ug/L	1	8260B	02/26/10 18:20	JGH	108-90-7	1
1,1,2,2-Tetrachloroethane	48	ug/L	1	8260B	02/26/10 18:20	JGH	79-34-5	1
Ethylbenzene	54	ug/L	1	8260B	02/26/10 18:20	JGH	100-41-4	1
p,m-Xylene	107	ug/L	1	8260B	02/26/10 18:20	JGH		1
o-Xylene	54	ug/L	1	8260B	02/26/10 18:20	JGH	95-47-6	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S43445.06 (continued)

Sample Tag: MW-03s MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	48	ug/L	1	8260B	02/26/10 18:20	JGH	100-42-5	1
Isopropylbenzene	51	ug/L	1	8260B	02/26/10 18:20	JGH	98-82-8	1
Bromoform	46	ug/L	1	8260B	02/26/10 18:20	JGH	75-25-2	1
1,3-Dichlorobenzene	54	ug/L	1	8260B	02/26/10 18:20	JGH	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	8260B	02/26/10 18:20	JGH	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	8260B	02/26/10 18:20	JGH	95-50-1	1
1,2-Dibromo-3-chloropropane	46	ug/L	1	8260B	02/26/10 18:20	JGH	96-12-8	1
1,2,4-Trichlorobenzene	48	ug/L	2	8260B	02/26/10 18:20	JGH	120-82-1	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S43445.07
 Sample Tag: MW-03s MSD
 Collected Date/Time: 02/19/2010 15:55
 Matrix: Groundwater
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	30	8260B	02/26/10 18:38	JGH	76-13-1	1
Acetone	30	ug/L	20	8260B	02/26/10 18:38	JGH	67-64-1	1
Carbon disulfide	44	ug/L	5	8260B	02/26/10 18:38	JGH	75-15-0	1
Methyl Acetate	50	ug/L	10	8260B	02/26/10 18:38	JGH	79-20-9	1
tert-Methyl butyl ether (MTBE)	49	ug/L	5	8260B	02/26/10 18:38	JGH	1634-04-4	1
2-Butanone (MEK)	40	ug/L	20	8260B	02/26/10 18:38	JGH	78-93-3	1
Dichlorodifluoromethane	30	ug/L	1	8260B	02/26/10 18:38	JGH	75-71-8	1
Chloromethane	37	ug/L	1	8260B	02/26/10 18:38	JGH	74-87-3	1
Vinyl chloride	47	ug/L	1	8260B	02/26/10 18:38	JGH	75-01-4	1
Bromomethane	48	ug/L	2	8260B	02/26/10 18:38	JGH	74-83-9	1
Chloroethane	45	ug/L	1	8260B	02/26/10 18:38	JGH	75-00-3	1
Trichlorofluoromethane	58	ug/L	1	8260B	02/26/10 18:38	JGH	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	8260B	02/26/10 18:38	JGH	75-35-4	1
Methylene chloride	50	ug/L	5	8260B	02/26/10 18:38	JGH	75-09-2	1
trans-1,2-Dichloroethene	54	ug/L	1	8260B	02/26/10 18:38	JGH	156-60-5	1
1,1-Dichloroethane	56	ug/L	1	8260B	02/26/10 18:38	JGH	75-34-3	1
cis-1,2-Dichloroethene	54	ug/L	1	8260B	02/26/10 18:38	JGH	156-59-2	1
Chloroform	54	ug/L	1	8260B	02/26/10 18:38	JGH	67-66-3	1
1,1,1-Trichloroethane	56	ug/L	1	8260B	02/26/10 18:38	JGH	71-55-6	1
Cyclohexane	49	ug/L	1	8260B	02/26/10 18:38	JGH	110-82-7	1
4-Methyl-2-pentanone (MIBK)	50	ug/L	10	8260B	02/26/10 18:38	JGH	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 18:38	JGH	591-78-6	1
Carbon tetrachloride	57	ug/L	1	8260B	02/26/10 18:38	JGH	56-23-5	1
Benzene	54	ug/L	1	8260B	02/26/10 18:38	JGH	71-43-2	1
1,2-Dichloroethane	56	ug/L	1	8260B	02/26/10 18:38	JGH	107-06-2	1
Trichloroethene	53	ug/L	1	8260B	02/26/10 18:38	JGH	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	8260B	02/26/10 18:38	JGH	78-87-5	1
Bromodichloromethane	56	ug/L	1	8260B	02/26/10 18:38	JGH	75-27-4	1
Methyl cyclohexane	50	ug/L	20	8260B	02/26/10 18:38	JGH	108-87-2	1
cis-1,3-Dichloropropene	53	ug/L	1	8260B	02/26/10 18:38	JGH	10061-01-5	1
Toluene	55	ug/L	1	8260B	02/26/10 18:38	JGH	108-88-3	1
trans-1,3-Dichloropropene	52	ug/L	1	8260B	02/26/10 18:38	JGH	10061-02-6	1
1,1,2-Trichloroethane	51	ug/L	1	8260B	02/26/10 18:38	JGH	79-00-5	1
Tetrachloroethene	51	ug/L	1	8260B	02/26/10 18:38	JGH	127-18-4	1
Dibromochloromethane	51	ug/L	1	8260B	02/26/10 18:38	JGH	124-48-1	1
1,2-Dibromoethane	48	ug/L	1	8260B	02/26/10 18:38	JGH	106-93-4	1
Chlorobenzene	53	ug/L	1	8260B	02/26/10 18:38	JGH	108-90-7	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	8260B	02/26/10 18:38	JGH	79-34-5	1
Ethylbenzene	54	ug/L	1	8260B	02/26/10 18:38	JGH	100-41-4	1
p,m-Xylene	109	ug/L	1	8260B	02/26/10 18:38	JGH		1
o-Xylene	55	ug/L	1	8260B	02/26/10 18:38	JGH	95-47-6	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S43445.07 (continued)

Sample Tag: MW-03s MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	49	ug/L	1	8260B	02/26/10 18:38	JGH	100-42-5	1
Isopropylbenzene	52	ug/L	1	8260B	02/26/10 18:38	JGH	98-82-8	1
Bromoform	50	ug/L	1	8260B	02/26/10 18:38	JGH	75-25-2	1
1,3-Dichlorobenzene	55	ug/L	1	8260B	02/26/10 18:38	JGH	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	8260B	02/26/10 18:38	JGH	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	8260B	02/26/10 18:38	JGH	95-50-1	1
1,2-Dibromo-3-chloropropane	48	ug/L	1	8260B	02/26/10 18:38	JGH	96-12-8	1
1,2,4-Trichlorobenzene	48	ug/L	2	8260B	02/26/10 18:38	JGH	120-82-1	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S43445.08
 Sample Tag: DUP-01
 Collected Date/Time: 02/19/2010 15:55
 Matrix: Groundwater
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	02/26/10 16:49	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	02/26/10 16:49	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	02/26/10 16:49	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	02/26/10 16:49	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	02/26/10 16:49	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	02/26/10 16:49	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	02/26/10 16:49	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	02/26/10 16:49	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	02/26/10 16:49	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 16:49	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	02/26/10 16:49	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH		
o-Xylene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S43445.08 (continued)

Sample Tag: DUP-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	02/26/10 16:49	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	02/26/10 16:49	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S43445.09
 Sample Tag: Trip Blank
 Collected Date/Time: 02/17/2010 :
 Matrix: Liquid
 COC Reference: 52428

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	02/26/10 17:07	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	02/26/10 17:07	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	02/26/10 17:07	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	02/26/10 17:07	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	02/26/10 17:07	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	02/26/10 17:07	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	02/26/10 17:07	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	02/26/10 17:07	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	02/26/10 17:07	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	02/26/10 17:07	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	02/26/10 17:07	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH		
o-Xylene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S43445.09 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	02/26/10 17:07	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	02/26/10 17:07	JGH	120-82-1	



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C.O.C. PAGE # 1 OF 1

52428

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: J. Alfonsi / M. Searest
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ave. Suite 280
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO. FAX NO. P.O. NO.
 E-MAIL ADDRESS QUOTE NO.

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO. FAX NO. P.O. NO.

PROJECT NO./NAME: Linden Rd. Landfill SAMPLER(S) - PLEASE PRINT/SIGN NAME: Stephen Delaney
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MTRX CODE	GW-GROUNDWATER SL-SLUDGE	WW-WASTEWATER O-OIL	S-SOIL A-AIR	L-LIQUID W-WASTE	SD-SOLID M-MISC	# Containers & Preservatives								SPECIAL INSTRUCTIONS/NOTES	
						NONE	HCL	HNO3	H2SO4	NI(OH)	NaOH	OTHER			
43445.01					GW	2	2								VOCs Equipment blank
.02					GW	2	2								
.03					L	2	2								
.04					L	2	2								
.05					GW	2	2								
.06					GW	4	4								
.08					GW	2	2								
.09					L	2	1								

RELINQUISHED BY: [Signature] ORG: OBG DATE: 2/23/10 TIME: 10:50
 RECEIVED BY: [Signature] DATE: 2/23/10 TIME: 10:50
 RELINQUISHED BY: DATE: TIME:
 RECEIVED BY: DATE: TIME:

RELINQUISHED BY: [Signature] DATE: 2/23/10 TIME: 13:10
 RECEIVED BY: [Signature] DATE: 2/23/10 TIME: 13:10
 SEAL NO. SEAL INTACT YES NO INITIALS: _____ NOTES: TEMP. ON ARRIVAL: 42
 SEAL NO. SEAL INTACT YES NO INITIALS: _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE