

July 29, 2009

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

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

File: 4966/41915/Rpts/Groundwater

Dear Mr. Innes:

This report summarizes the quarterly groundwater monitoring event performed at the Linden Road Landfill site, located in Flint Township, Michigan. The sampling event was performed on June 30, 2009 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 Environmental Quality (MDEQ) 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 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 MDEQ's request, additional groundwater monitoring was initiated.

GROUNDWATER SAMPLING

Groundwater samples were collected on June 30, 2009 (summer) from MW-03S, MW-14S, and MW-15S, as well as quality assurance and quality control (QA/QC) samples consisting of one duplicate, one MS/MSD, one field blank, 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 is a summary of the analytical results. Attachment A is copies of the analytical reports. Figure 1 indicates the location of the monitoring wells.

SAMPLING RESULTS AND DISCUSSION

Laboratory analytical results indicated that concentrations of VOCs for the June 2009 sampling event were below the most restrictive MDEQ Part 201 Generic Cleanup Criteria and Screening Levels. Vinyl chloride was detected in monitoring wells as follows:

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Table -2 Vinyl chloride results.

Well	Fall 2008	Winter 2008	Summer 2008	Summer 2009
MW-15S	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
MW-03S	8 µg/L	<1 µg/L	4 µg/L	1 µg/L
MW-14S	45 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 results from monitoring well MW-03S for vinyl chloride ranged from <1 µg/L to 24 µg/L for 10 sampling events conducted between October 1999 through May 2005. Results from monitoring well MW-14S ranged from <1 µg/L to 4 µg/L for 4 sampling events conducted between December 2004 to May 2005.

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.

O'Brien & Gere will continue groundwater monitoring over the next three quarters collecting groundwater samples in November 2009 (Fall), February 2010 (Winter), and June 2010 (Spring).

Should you have questions or concerns about the information in this report, please contact Dr. Kenneth A. Richards, PhD at (586) 986-2208.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



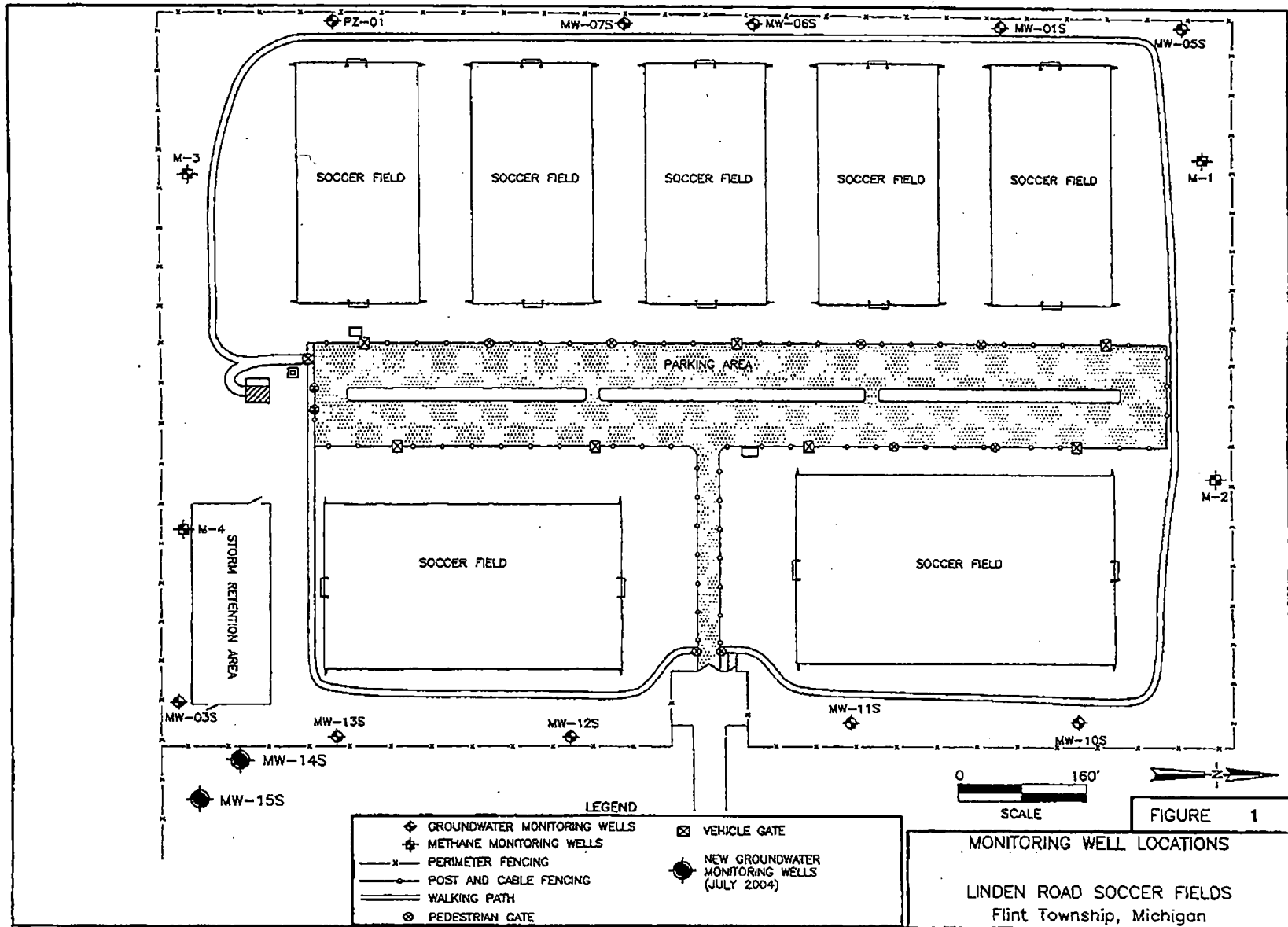
Jim Alfonsi
Project Associate

Enclosure

cc: Ken Richards
Marianne Secrest – O'Brien & Gere

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-15S	MW-15S	MW-15S	MW-03S	MW-03S	MW-03S	MW-03S	MW-14S	MW-14S	MW-14S	MW-14S
		11/8/2007	2/26/2008	6/30/2008	6/30/2009	11/8/2007	2/26/2008	6/30/2008	6/30/2009	11/8/2007	2/26/2008	6/30/2008	6/30/2009
2-Butanone (MEK)	2200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	140	20
1,1-Dichloroethane	740	<1	<1	<1	<1	6	2	4	2	2	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	0.3	<1	<1	<1
cis-1,2-Dichloroethene	70	<1	<1	<1	<1	6	1	2	<1	57	3	2	<1
trans-1,2-Dichloroethene	100	<1	<1	<1	<1	0.2	<1	<1	<1	1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	0.7	<1	<1	<1
Vinyl chloride	2	<1	<1	<1	<1	8	2	4	1	45	<1	<1	<1





Analytical Laboratory Report

Report ID: S41238.01(01)
Generated on 07/13/2009

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): S41238.01-S41238.09
Project: Linden Rd. Landfill
Collected Date: 06/29/2009
Submitted Date/Time: 06/30/2009 14:00
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.

A handwritten signature in cursive script that reads "Violetta F. Murshak".

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S41238.01	MW-15S	Groundwater	06/29/2009 10:40
S41238.02	MW-15S MS	Groundwater	06/29/2009 10:40
S41238.03	MW-15S MSD	Groundwater	06/29/2009 10:40
S41238.04	MW-14S	Groundwater	06/29/2009 11:50
S41238.05	FB-01	Liquid	06/29/2009 12:45
S41238.06	EB-01	Liquid	06/29/2009 12:55
S41238.07	MW-03S	Groundwater	06/29/2009 14:05
S41238.08	Dup-01	Groundwater	06/29/2009
S41238.09	TB-01	Liquid	06/29/2009



Analytical Laboratory Report

Lab Sample ID: S41238.01
 Sample Tag: MW-15S
 Collected Date/Time: 06/29/2009 10:40
 Matrix: Groundwater
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	07/12/09 18:44	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	07/12/09 18:44	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	07/12/09 18:44	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	07/12/09 18:44	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	07/12/09 18:44	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	07/12/09 18:44	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	07/12/09 18:44	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/12/09 18:44	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	07/12/09 18:44	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	07/12/09 18:44	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	07/12/09 18:44	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	07/12/09 18:44	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S41238.01 (continued)

Sample Tag: MW-15S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	07/12/09 18:44	JGH		



Analytical Laboratory Report

Lab Sample ID: S41238.02
 Sample Tag: MW-15S MS
 Collected Date/Time: 06/29/2009 10:40
 Matrix: Groundwater
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	70	ug/L	20	8260B	07/12/09 16:37	JGH	67-64-1	1
2-Butanone (MEK)	60	ug/L	20	8260B	07/12/09 16:37	JGH	78-93-3	1
Benzene	60	ug/L	1	8260B	07/12/09 16:37	JGH	71-43-2	1
Bromodichloromethane	67	ug/L	1	8260B	07/12/09 16:37	JGH	75-27-4	1
Bromoform	56	ug/L	1	8260B	07/12/09 16:37	JGH	75-25-2	1
Bromomethane	70	ug/L	2	8260B	07/12/09 16:37	JGH	74-83-9	1
Carbon disulfide	59	ug/L	5	8260B	07/12/09 16:37	JGH	75-15-0	1
Carbon tetrachloride	68	ug/L	1	8260B	07/12/09 16:37	JGH	56-23-5	1
Chlorobenzene	55	ug/L	1	8260B	07/12/09 16:37	JGH	108-90-7	1
Chloroethane	70	ug/L	1	8260B	07/12/09 16:37	JGH	75-00-3	1
Chloroform	63	ug/L	1	8260B	07/12/09 16:37	JGH	67-66-3	1
Chloromethane	67	ug/L	1	8260B	07/12/09 16:37	JGH	74-87-3	1
Cyclohexane	61	ug/L	1	8260B	07/12/09 16:37	JGH	110-82-7	1
1,1-Dichloroethane	63	ug/L	1	8260B	07/12/09 16:37	JGH	75-34-3	1
1,1-Dichloroethene	62	ug/L	1	8260B	07/12/09 16:37	JGH	75-35-4	1
1,2-Dibromo-3-chloropropane	55	ug/L	1	8260B	07/12/09 16:37	JGH	96-12-8	1
1,2-Dibromoethane	56	ug/L	1	8260B	07/12/09 16:37	JGH	106-93-4	1
1,2-Dichlorobenzene	53	ug/L	1	8260B	07/12/09 16:37	JGH	95-50-1	1
1,2-Dichloroethane	65	ug/L	1	8260B	07/12/09 16:37	JGH	107-06-2	1
1,2-Dichloropropane	59	ug/L	1	8260B	07/12/09 16:37	JGH	78-87-5	1
1,3-Dichlorobenzene	52	ug/L	1	8260B	07/12/09 16:37	JGH	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	8260B	07/12/09 16:37	JGH	106-46-7	1
cis-1,2-Dichloroethene	59	ug/L	1	8260B	07/12/09 16:37	JGH	156-59-2	1
cis-1,3-Dichloropropene	64	ug/L	1	8260B	07/12/09 16:37	JGH	10061-01-5	1
Dibromochloromethane	59	ug/L	1	8260B	07/12/09 16:37	JGH	124-48-1	1
Dichlorodifluoromethane	56	ug/L	1	8260B	07/12/09 16:37	JGH	75-71-8	1
trans-1,2-Dichloroethene	64	ug/L	1	8260B	07/12/09 16:37	JGH	156-60-5	1
trans-1,3-Dichloropropene	66	ug/L	1	8260B	07/12/09 16:37	JGH	10061-02-6	1
Ethylbenzene	56	ug/L	1	8260B	07/12/09 16:37	JGH	100-41-4	1
2-Hexanone	70	ug/L	50	8260B	07/12/09 16:37	JGH	591-78-6	1
Isopropylbenzene	54	ug/L	1	8260B	07/12/09 16:37	JGH	98-82-8	1
Methyl Acetate	60	ug/L	10	8260B	07/12/09 16:37	JGH	79-20-9	1
4-Methyl-2-pentanone (MIBK)	60	ug/L	10	8260B	07/12/09 16:37	JGH	108-10-1	1
tert-Methyl butyl ether (MTBE)	65	ug/L	5	8260B	07/12/09 16:37	JGH	1634-04-4	1
Methyl cyclohexane	60	ug/L	20	8260B	07/12/09 16:37	JGH	108-87-2	1
Methylene chloride	60	ug/L	5	8260B	07/12/09 16:37	JGH	75-09-2	1
Styrene	50	ug/L	1	8260B	07/12/09 16:37	JGH	100-42-5	1
1,1,1-Trichloroethane	67	ug/L	1	8260B	07/12/09 16:37	JGH	71-55-6	1
1,1,2,2-Tetrachloroethane	57	ug/L	1	8260B	07/12/09 16:37	JGH	79-34-5	1
1,1,2-Trichloro-1,2,2-trifluoroethane	60	ug/L	30	8260B	07/12/09 16:37	JGH	76-13-1	1
1,1,2-Trichloroethane	57	ug/L	1	8260B	07/12/09 16:37	JGH	79-00-5	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S41238.02 (continued)

Sample Tag: MW-15S MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2,4-Trichlorobenzene	56	ug/L	2	8260B	07/12/09 16:37	JGH	120-82-1	1
Tetrachloroethene	59	ug/L	1	8260B	07/12/09 16:37	JGH	127-18-4	1
Toluene	59	ug/L	1	8260B	07/12/09 16:37	JGH	108-88-3	1
Trichloroethene	58	ug/L	1	8260B	07/12/09 16:37	JGH	79-01-6	1
Trichlorofluoromethane	71	ug/L	1	8260B	07/12/09 16:37	JGH	75-69-4	1
Vinyl chloride	68	ug/L	1	8260B	07/12/09 16:37	JGH	75-01-4	1
o-Xylene	57	ug/L	1	8260B	07/12/09 16:37	JGH	95-47-6	1
p,m-Xylene	108	ug/L	1	8260B	07/12/09 16:37	JGH		1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S41238.03
 Sample Tag: MW-15S MSD
 Collected Date/Time: 06/29/2009 10:40
 Matrix: Groundwater
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	60	ug/L	20	8260B	07/12/09 16:55	JGH	67-64-1	1
2-Butanone (MEK)	50	ug/L	20	8260B	07/12/09 16:55	JGH	78-93-3	1
Benzene	56	ug/L	1	8260B	07/12/09 16:55	JGH	71-43-2	1
Bromodichloromethane	64	ug/L	1	8260B	07/12/09 16:55	JGH	75-27-4	1
Bromoform	53	ug/L	1	8260B	07/12/09 16:55	JGH	75-25-2	1
Bromomethane	64	ug/L	2	8260B	07/12/09 16:55	JGH	74-83-9	1
Carbon disulfide	54	ug/L	5	8260B	07/12/09 16:55	JGH	75-15-0	1
Carbon tetrachloride	63	ug/L	1	8260B	07/12/09 16:55	JGH	56-23-5	1
Chlorobenzene	50	ug/L	1	8260B	07/12/09 16:55	JGH	108-90-7	1
Chloroethane	64	ug/L	1	8260B	07/12/09 16:55	JGH	75-00-3	1
Chloroform	58	ug/L	1	8260B	07/12/09 16:55	JGH	67-66-3	1
Chloromethane	62	ug/L	1	8260B	07/12/09 16:55	JGH	74-87-3	1
Cyclohexane	56	ug/L	1	8260B	07/12/09 16:55	JGH	110-82-7	1
1,1-Dichloroethane	58	ug/L	1	8260B	07/12/09 16:55	JGH	75-34-3	1
1,1-Dichloroethene	57	ug/L	1	8260B	07/12/09 16:55	JGH	75-35-4	1
1,2-Dibromo-3-chloropropane	52	ug/L	1	8260B	07/12/09 16:55	JGH	96-12-8	1
1,2-Dibromoethane	52	ug/L	1	8260B	07/12/09 16:55	JGH	106-93-4	1
1,2-Dichlorobenzene	49	ug/L	1	8260B	07/12/09 16:55	JGH	95-50-1	1
1,2-Dichloroethane	59	ug/L	1	8260B	07/12/09 16:55	JGH	107-06-2	1
1,2-Dichloropropane	55	ug/L	1	8260B	07/12/09 16:55	JGH	78-87-5	1
1,3-Dichlorobenzene	48	ug/L	1	8260B	07/12/09 16:55	JGH	541-73-1	1
1,4-Dichlorobenzene	47	ug/L	1	8260B	07/12/09 16:55	JGH	106-46-7	1
cis-1,2-Dichloroethene	55	ug/L	1	8260B	07/12/09 16:55	JGH	156-59-2	1
cis-1,3-Dichloropropene	61	ug/L	1	8260B	07/12/09 16:55	JGH	10061-01-5	1
Dibromochloromethane	56	ug/L	1	8260B	07/12/09 16:55	JGH	124-48-1	1
Dichlorodifluoromethane	51	ug/L	1	8260B	07/12/09 16:55	JGH	75-71-8	1
trans-1,2-Dichloroethene	58	ug/L	1	8260B	07/12/09 16:55	JGH	156-60-5	1
trans-1,3-Dichloropropene	63	ug/L	1	8260B	07/12/09 16:55	JGH	10061-02-6	1
Ethylbenzene	52	ug/L	1	8260B	07/12/09 16:55	JGH	100-41-4	1
2-Hexanone	60	ug/L	50	8260B	07/12/09 16:55	JGH	591-78-6	1
Isopropylbenzene	49	ug/L	1	8260B	07/12/09 16:55	JGH	98-82-8	1
Methyl Acetate	50	ug/L	10	8260B	07/12/09 16:55	JGH	79-20-9	1
4-Methyl-2-pentanone (MIBK)	60	ug/L	10	8260B	07/12/09 16:55	JGH	108-10-1	1
tert-Methyl butyl ether (MTBE)	58	ug/L	5	8260B	07/12/09 16:55	JGH	1634-04-4	1
Methyl cyclohexane	60	ug/L	20	8260B	07/12/09 16:55	JGH	108-87-2	1
Methylene chloride	55	ug/L	5	8260B	07/12/09 16:55	JGH	75-09-2	1
Styrene	42	ug/L	1	8260B	07/12/09 16:55	JGH	100-42-5	1
1,1,1-Trichloroethane	62	ug/L	1	8260B	07/12/09 16:55	JGH	71-55-6	1
1,1,2,2-Tetrachloroethane	52	ug/L	1	8260B	07/12/09 16:55	JGH	79-34-5	1
1,1,2-Trichloro-1,2,2-trifluoroethane	60	ug/L	30	8260B	07/12/09 16:55	JGH	76-13-1	1
1,1,2-Trichloroethane	55	ug/L	1	8260B	07/12/09 16:55	JGH	79-00-5	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S41238.03 (continued)

Sample Tag: MW-15S MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2,4-Trichlorobenzene	53	ug/L	2	8260B	07/12/09 16:55	JGH	120-82-1	1
Tetrachloroethene	55	ug/L	1	8260B	07/12/09 16:55	JGH	127-18-4	1
Toluene	56	ug/L	1	8260B	07/12/09 16:55	JGH	108-88-3	1
Trichloroethene	55	ug/L	1	8260B	07/12/09 16:55	JGH	79-01-6	1
Trichlorofluoromethane	65	ug/L	1	8260B	07/12/09 16:55	JGH	75-69-4	1
Vinyl chloride	64	ug/L	1	8260B	07/12/09 16:55	JGH	75-01-4	1
o-Xylene	52	ug/L	1	8260B	07/12/09 16:55	JGH	95-47-6	1
p,m-Xylene	99	ug/L	1	8260B	07/12/09 16:55	JGH		1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S41238.04
 Sample Tag: MW-14S
 Collected Date/Time: 06/29/2009 11:50
 Matrix: Groundwater
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	07/12/09 19:02	JGH	67-64-1	
2-Butanone (MEK)	20	ug/L	20	8260B	07/12/09 19:02	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	07/12/09 19:02	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	07/12/09 19:02	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	07/12/09 19:02	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	07/12/09 19:02	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	07/12/09 19:02	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/12/09 19:02	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	07/12/09 19:02	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	07/12/09 19:02	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	07/12/09 19:02	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	07/12/09 19:02	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S41238.04 (continued)

Sample Tag: MW-14S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:02	JGH		



Analytical Laboratory Report

Lab Sample ID: S41238.05
 Sample Tag: FB-01
 Collected Date/Time: 06/29/2009 12:45
 Matrix: Liquid
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	07/12/09 19:20	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	07/12/09 19:20	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	07/12/09 19:20	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	07/12/09 19:20	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	07/12/09 19:20	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	07/12/09 19:20	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	07/12/09 19:20	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/12/09 19:20	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	07/12/09 19:20	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	07/12/09 19:20	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	07/12/09 19:20	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	07/12/09 19:20	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S41238.05 (continued)

Sample Tag: FB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:20	JGH		



Analytical Laboratory Report

Lab Sample ID: S41238.06
Sample Tag: EB-01
Collected Date/Time: 06/29/2009 12:55
Matrix: Liquid
COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	07/12/09 19:38	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	07/12/09 19:38	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	07/12/09 19:38	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	07/12/09 19:38	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	07/12/09 19:38	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	07/12/09 19:38	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	07/12/09 19:38	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/12/09 19:38	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	07/12/09 19:38	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	07/12/09 19:38	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	07/12/09 19:38	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	07/12/09 19:38	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S41238.06 (continued)

Sample Tag: EB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:38	JGH		



Analytical Laboratory Report

Lab Sample ID: S41238.07
 Sample Tag: MW-03S
 Collected Date/Time: 06/29/2009 14:05
 Matrix: Groundwater
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	07/12/09 20:14	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	07/12/09 20:14	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	07/12/09 20:14	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	07/12/09 20:14	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	110-82-7	
1,1-Dichloroethane	2	ug/L	1	8260B	07/12/09 20:14	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	07/12/09 20:14	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	07/12/09 20:14	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	07/12/09 20:14	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/12/09 20:14	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	07/12/09 20:14	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	07/12/09 20:14	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	07/12/09 20:14	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	07/12/09 20:14	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S41238.07 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	75-69-4	
Vinyl chloride	1	ug/L	1	8260B	07/12/09 20:14	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	07/12/09 20:14	JGH		



Analytical Laboratory Report

Lab Sample ID: S41238.08
 Sample Tag: Dup-01
 Collected Date/Time: 06/29/2009 :
 Matrix: Groundwater
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	07/12/09 20:33	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	07/12/09 20:33	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	07/12/09 20:33	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	07/12/09 20:33	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	110-82-7	
1,1-Dichloroethane	2	ug/L	1	8260B	07/12/09 20:33	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	07/12/09 20:33	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	07/12/09 20:33	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	07/12/09 20:33	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/12/09 20:33	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	07/12/09 20:33	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	07/12/09 20:33	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	07/12/09 20:33	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	07/12/09 20:33	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S41238.08 (continued)

Sample Tag: Dup-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	75-69-4	
Vinyl chloride	1	ug/L	1	8260B	07/12/09 20:33	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	07/12/09 20:33	JGH		



Analytical Laboratory Report

Lab Sample ID: S41238.09
 Sample Tag: TB-01
 Collected Date/Time: 06/29/2009 :
 Matrix: Liquid
 COC Reference: 54233

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	07/12/09 19:56	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	07/12/09 19:56	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	07/12/09 19:56	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	07/12/09 19:56	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	07/12/09 19:56	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	07/12/09 19:56	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	07/12/09 19:56	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/12/09 19:56	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	07/12/09 19:56	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	07/12/09 19:56	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	71-55-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	07/12/09 19:56	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	07/12/09 19:56	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S41238.09 (continued)

Sample Tag: TB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	07/12/09 19:56	JGH		



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C.O.C. PAGE # 1 OF 1

54233

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: J. Alfonsi / M. Seccrest
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ave Suite 260
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO. FAX NO. PO NO. QUOTE NO.

CONTACT NAME: J 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: Stephen Behring
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

SPECIAL INSTRUCTIONS/NOTES
VOC by EPA Method 8260B

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

MERIT LAB NO.	2009		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	HClO4	MeOH	OTHER	VOCs
	DATE	TIME											
4123801	6/29	1040	MW-15S	GW	2		2						X
.0207		1040	MW-15S MS/MSD	GW	4		4						X
.03		1150	MW-14S	GW	2		2						X
.05		1245	FB-01	L	2		2						X
.06		1255	EB-01	L	2		2						X
.07		1405	MW-03S	GW	2		2						X
.08			DUP-01	GW	2		2						X
.09			TB-01	L	2		1						X

RELINQUISHED BY: [Signature] 086 DATE: 6/30/09 TIME: 11:50
 RECEIVED BY: [Signature] DATE: 6-30-09 TIME: 11:50

RELINQUISHED BY: [Signature] DATE: 6-30-09 TIME: 11:50
 RECEIVED BY: [Signature] DATE: 6-30-09 TIME: 14:00
 SEAL NO. SEAL INTACT YES NO INITIALS: [Initials] NOTES: [Notes] TEMP. ON ARRIVAL: [Temp]

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