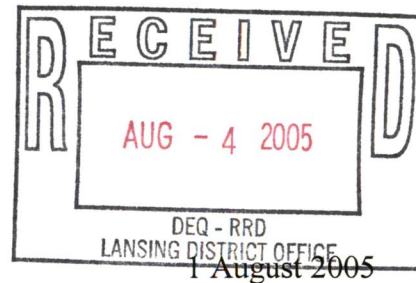




Weston Solutions, Inc.  
Suite 500  
750 East Bunker Court  
Vernon Hills, IL 60061-1450  
847-918-4000 • Fax 847-918-4055  
www.westonsolutions.com



Mr. James Innes  
Michigan Department of Environmental Quality-RRD  
P.O. Box 30242  
Lansing, MI 48909

Work Order No.: 01138.079.010

Re: Groundwater Sampling Select Monitoring Wells for Evaluation of Vinyl Chloride  
Linden Road Landfill Site  
Flint Township, Michigan

Dear Mr. Innes:

Weston Solutions, Inc. (WESTON®), on behalf of General Motors Corporation (GM), has completed additional groundwater sampling activities at the Linden Road Landfill site located in Flint Township, Michigan. The additional groundwater sampling was performed to monitor the presence of vinyl chloride in shallow groundwater which has been observed in the southeast corner of the site.

The following paragraphs present the results of the follow-up sampling of the two newly installed monitoring wells (MW-14S and MW-15S) for volatile organic compound (VOC) analysis.

### **GROUNDWATER SAMPLING**

WESTON personnel conducted groundwater sampling on 20 May 2005. The groundwater samples were collected from three shallow groundwater-monitoring wells (MW-03S, MW-14S and MW-15S). The locations of groundwater-monitoring wells are presented in Figure 1. A single groundwater sample was collected from each of the three shallow groundwater monitoring wells. A field duplicate sample was also collected from monitoring well MW-15S for quality assurance/quality control (QA/QC) purposes. Sampling and shipping procedures were consistent with those established in the sampling plan for the site and Michigan Department of Environmental Quality (MDEQ) Remediation and Redevelopment Division Operational Memorandum #2.

The laboratory analysis was performed by Merit Laboratories of East Lansing, Michigan. All samples were analyzed for VOCs. A WESTON chemist validated the analytical data in accordance with United States Environmental Protection Agency (U.S. EPA) data validation procedures.





Mr. James Innes  
Michigan Department of Environmental Quality-RRD

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1 August 2005

## **SAMPLING RESULTS AND DISCUSSION**

Table 1 presents a summary of detected VOC constituents and their respective concentrations for each sample collected. Table 1 also compares the concentrations of the detected constituents in the groundwater samples to the MDEQ Generic Drinking Water Criteria for residential and industrial/commercial categories. A copy of the complete laboratory report, including laboratory QA/QC data and chain-of-custody documentation for the latest sampling round, is presented in Attachment A. Field notes are presented in Attachment B.

Since January 2002, vinyl chloride has been reported in monitoring well MW-03S at concentrations exceeding its MDEQ Generic Drinking Water Criteria. Based on this observation, MDEQ requested further testing (letter dated 18 December 2002) to evaluate the presence and extent of vinyl chloride in shallow groundwater downgradient of MW-03S. In June 2003, field investigation activities consisting of advancing a series of Geoprobe boreholes, logging stratigraphy, and collecting groundwater samples was conducted. The results of this investigation were documented in a letter report to MDEQ dated 20 August 2003 and indicated the presence of vinyl chloride in one shallow groundwater sample from a location south of MW-03S at a level exceeding MDEQ Generic Drinking Water Criteria.

Additional field investigation activities were necessary because the delineation of southern and eastern extent of contamination was not completed during the first investigation. The additional investigation took place in November and December 2003 and included advancing five additional borings for the purpose of logging stratigraphy and collecting groundwater samples. The activities and results of this investigation were detailed in a letter report to MDEQ titled "Fourth Annual Groundwater Sampling and Methane Monitoring Report Including Additional Investigations", dated 21 January 2004.

Based on the results of November/December 2003 vinyl chloride investigation, WESTON installed two additional monitoring wells, MW-14S and MW-15S in July 2004 and collected samples for laboratory analysis. The details of the above activities were included in a 22 September 2004 letter report to MDEQ.

As part of the December 2004 annual sampling event, groundwater samples were collected from wells MW-14S and MW-15S. Vinyl chloride was detected at a concentration of 0.003 mg/L. No other VOCs were detected in MW-14S. No VOCs were detected in MW-15S. At that time, it was recommended that an additional quarter of sampling of these wells be conducted to monitor vinyl chloride concentrations.

Three compounds were detected during the May 2005 sampling event and include 1,1-dichloroethane, cis-1,2-dichloroethene, and vinyl chloride. Levels of 1,1-dichloroethane and cis-1,2-dichloroethene are below drinking water criteria and appear consistent with previous results. Vinyl chloride was found to exceed its drinking water criteria in MW-03S and MW-14S at 0.008



Mr. James Innes  
Michigan Department of Environmental Quality-RRD

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1 August 2005

mg/L and 0.004 mg/L, respectively. MW-03S is located in the southeastern corner of the property in the vicinity of the former oil disposal area and MW-14S is located approximately 100 feet northeast of MW-03S. Vinyl chloride was not detected in MW-15S, which is located southeast of MW-14S (southeast) and east of MW-03S.

While vinyl chloride persists in monitoring wells MW-03S and MW-14S, the overall levels in MW-03S have remained relatively consistent since 2003 and represent lower concentrations when compared to earlier years. The presence of vinyl chloride in MW-14S indicates some limited migration has occurred on to another adjoining parcel currently owned by GM. However, the areal extent appears very limited given previous studies to determine the extent of shallow groundwater contamination and the continued lack of vinyl chloride in downgradient monitoring well MW-15S. Additionally, vinyl chloride levels in MW-14S are within one ug/L of each other for the two sampling events; and therefore do not appear to represent a significantly increasing trend.

### **RECOMMENDATIONS**

Based on the continued presence of vinyl chloride in monitoring wells MW-03S and MW-14S at apparently stable levels, combined with the fact that the contaminants appear localized and are not present in downgradient well MW-15S, WESTON recommends that continued monitoring be conducted to establish additional spatial and temporal data. A minimum of two additional sampling events are recommended at approximate six month intervals. This will establish at least four datasets over an approximate 18 to 24 month period and will allow better evaluation of potential trends with respect to vinyl chloride and other VOCs in groundwater in this area.

Upon completion of the recommended sampling, data will be evaluated and discussed with MDEQ to determine whether further action may be required.

If you have any questions or require additional information, please call Mr. David Worrell of GM at (248) 753-5702.

Very truly yours,

Weston Solutions, Inc.

S. Babusukumar, P.G.  
Project Manager

SB\tg

cc: D. Worrell, P.E., GM

I:\WO\W1000\GMLINDEN\35289LTR.DOC

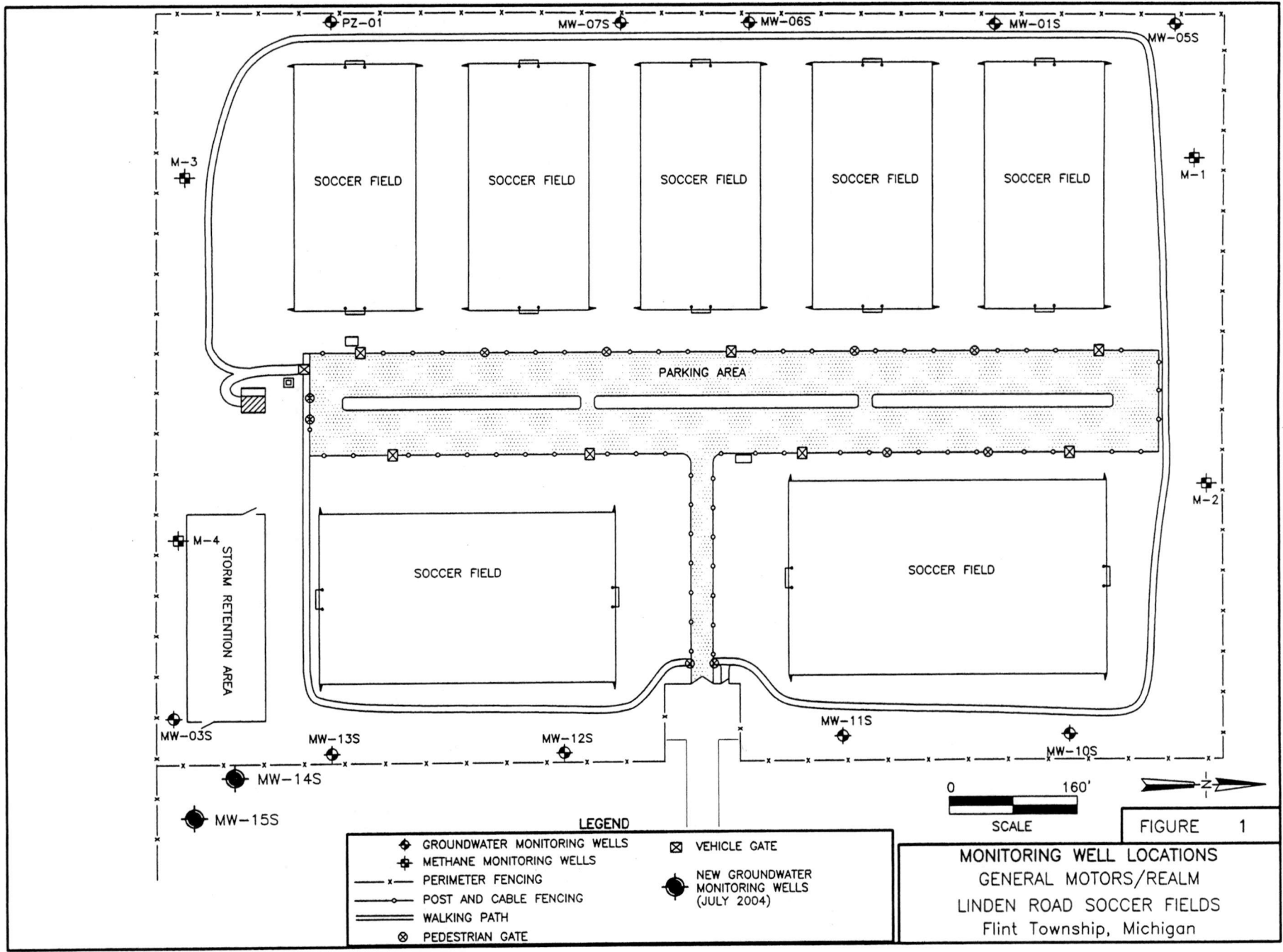


FIGURE 1

MONITORING WELL LOCATIONS  
 GENERAL MOTORS/REALM  
 LINDEN ROAD SOCCER FIELDS  
 Flint Township, Michigan

Table 1

Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria  
Groundwater Sample Analytical Results 1999 to Date  
Linden Road Site

Sample Location	MW-03S	MW-03S	MW-03S	MW-03S	MW-03S DP	MW-03S	MW-03S DP	MW-03S	MW-03S	MW-03S	MW-03S	MDEQ Generic Drinking Water Criteria	
	Oct-99	Oct-00	Oct-01	Feb-02	Feb-02	Jun-02	Jun-02	Oct-02	Nov-03	Dec-04	May-05	Residential	Industrial/ Commercial
VOCs (mg/L)													
Trichloroethene	0.001	---	---	---	---	---	---	---	---	---	---	0.005	0.005
1,1-Dichloroethane	0.006	0.017	0.021	0.011	0.012	0.014	0.015	0.012	0.005	0.005	0.008	0.88	2.5
cis-1,2-Dichloroethene	0.015	0.035	0.035	0.016	0.016	0.021	0.024	0.021	0.005	0.005	0.008	0.07	0.07
1,2-Dichloropropane	---	0.001	0.002	---	---	0.001	0.001	---	---	---	---	0.005	0.005
trans-1,2-Dichloroethene	0.001	0.002	0.002	---	---	0.001	0.001	0.001	---	---	---	0.1	0.1
Toluene	---	---	---	---	---	---	---	---	---	---	---	0.79	0.79
Vinyl chloride	---	---	0.023	0.013	0.014	0.023	0.024	0.019	0.005	0.005	0.008	0.002	0.002

Notes:

- Compound not detected above laboratory detection limit; or no criteria available.
- Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria
- DP Field quality control duplicate sample

Table 1 (Continued)

Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria  
Groundwater Sample Analytical Results 1999 to Date  
Linden Road Site

Sample Location	MW-14S	MW-14S	MW-15S	MW-15S	MW-15S DP	MDEQ Generic Drinking Water Criteria	
	Dec-04	May-05	Dec-04	May-05	May-05	Residential	Industrial/ Commercial
<b>VOCs (mg/L)</b>							
Trichloroethene	0.001		---	---	---	0.005	0.005
1,1-Dichloroethane	---		---	---	---	0.88	2.5
cis-1,2-Dichloroethene	0.026	0.025	---	---	---	0.07	0.07
1,2-Dichloropropane	---		---	---	---	0.005	0.005
trans-1,2-Dichloroethene	---		---	---	---	0.1	0.1
Toluene	---		---	---	---	0.79	0.79
Vinyl chloride	0.003	0.004	---	---	---	0.002	0.002

Notes:

- Compound not detected above laboratory detection limit; or no criteria available.
- Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria
- DP Field quality control duplicate sample

**ATTACHMENT A**  
**LABORATORY ANALYTICAL RESULTS**



# Analytical Laboratory Report

Report ID: S22342.01(01)  
Generated on 05/31/2005

Report to  
Attention: Mr. Babusukumar  
Weston Solutions, Inc.  
50 East Bunker Court Ste 500  
Wernon Hills, IL 60061

Report produced by  
Merit Laboratories  
2680 East Lansing Drive  
East Lansing, MI 48823

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

Phone: 847-918-4018 FAX: 847-918-4055

## Report Summary

Lab Sample ID(s): S22342.01-S22342.05  
Project: Lindin Rd. - GM  
Submitted Date/Time: 05/20/2005 15:00  
Sampled by: Kirk Lapham  
I.O. #:

## Report Notes

Results relate only to items tested.  
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 RDL.  
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Lioletta F. Murshak  
Laboratory Director



# Analytical Laboratory Report

ab Sample ID: S22342.01  
 Sample Tag: MW-15S  
 Collected Date/Time: 05/20/2005 12:20  
 Matrix: Groundwater  
 DOC Reference: 029119

Sample Containers

Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
40 ml Glass	HCL	Yes	4	3

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>Volatile Organics - DEQ List</b>								
Benzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	108-90-7	
Chloroethane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	67-66-3	
Chloromethane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	74-87-3	
Bromochloromethane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	124-48-1	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	75-35-4	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	99-87-6	
Ethylene chloride	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	75-09-2	
Naphthalene	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	75-01-4	
m-Xylene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	95-47-6	
o,m-Xylene	Not detected	ug/L	2	8260B	05/27/05 16:14	JGH		



# Analytical Laboratory Report

Sample ID: S22342.01 (continued)

Sample Tag: MW-15S

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Acetone	Not detected	ug/L	50	8260B	05/27/05 16:14	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	30	8260B	05/27/05 16:14	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	05/27/05 16:14	JGH	591-78-6	
2-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/27/05 16:14	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	1634-04-4	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	630-20-6	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	87-61-6	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	96-18-4	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	106-93-4	
1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	764-41-0	
1-Methylnaphthalene	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	91-57-6	
Acrylonitrile	Not detected	ug/L	2	8260B	05/27/05 16:14	JGH	107-13-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	108-86-1	
Bromochloromethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	74-97-5	
Dibromomethane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	74-95-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	75-71-8	
Diethyl ether	Not detected	ug/L	10	8260B	05/27/05 16:14	JGH	60-29-7	
Hexachloroethane	Not detected	ug/L	5	8260B	05/27/05 16:14	JGH	67-72-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	74-88-4	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/27/05 16:14	JGH	109-99-9	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	75-69-4	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:14	JGH	526-73-8	



# Analytical Laboratory Report

ab Sample ID: S22342.02  
 Sample Tag: MW-15S Dup  
 Collected Date/Time: 05/20/2005 12:20  
 Matrix: Groundwater  
 LOC Reference: 029119

Sample Containers

Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
40 ml Glass	HCL	Yes	4	3

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>Volatile Organics - DEQ List</b>								
Benzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	108-90-7	
Chloroethane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	67-66-3	
Chloromethane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	124-48-1	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	75-35-4	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	98-82-8	
n-Isopropyltoluene	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	75-09-2	
Naphthalene	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	75-01-4	
p-Xylene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	95-47-6	
o,m-Xylene	Not detected	ug/L	2	8260B	05/27/05 16:46	JGH		



# Analytical Laboratory Report

Sample ID: S22342.02 (continued)

Sample Tag: MW-15S Dup

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Acetone	Not detected	ug/L	50	8260B	05/27/05 16:46	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	30	8260B	05/27/05 16:46	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	05/27/05 16:46	JGH	591-78-6	
2-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/27/05 16:46	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	1634-04-4	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	630-20-6	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	87-61-6	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	96-18-4	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	106-93-4	
1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	764-41-0	
1-Methylnaphthalene	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	91-57-6	
Acrylonitrile	Not detected	ug/L	2	8260B	05/27/05 16:46	JGH	107-13-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	108-86-1	
Bromochloromethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	74-97-5	
Dibromomethane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	74-95-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	75-71-8	
Diethyl ether	Not detected	ug/L	10	8260B	05/27/05 16:46	JGH	60-29-7	
Hexachloroethane	Not detected	ug/L	5	8260B	05/27/05 16:46	JGH	67-72-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	74-88-4	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/27/05 16:46	JGH	109-99-9	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	75-69-4	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 16:46	JGH	526-73-8	



# Analytical Laboratory Report

ab Sample ID: S22342.03  
 ample Tag: MW-14S  
 ollected Date/Time: 05/20/2005 13:00  
 atrix: Groundwater  
 :OC Reference: 029119

Sample Containers

Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
40 ml Glass	HCL	Yes	4	3

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>Volatile Organics - DEQ List</b>								
Benzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	108-90-7	
Chloroethane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	67-66-3	
Chloromethane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	74-87-3	
Bromochloromethane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	124-48-1	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	75-35-4	
cis-1,2-Dichloroethene	25	ug/L	1	8260B	05/27/05 17:19	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	98-82-8	
n-Isopropyltoluene	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	75-09-2	
Naphthalene	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	108-67-8	
Vinyl chloride	4	ug/L	1	8260B	05/27/05 17:19	JGH	75-01-4	
p-Xylene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	95-47-6	
m-Xylene	Not detected	ug/L	2	8260B	05/27/05 17:19	JGH		



# Analytical Laboratory Report

ab Sample ID: S22342.03 (continued)

Sample Tag: MW-14S

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Acetone	Not detected	ug/L	50	8260B	05/27/05 17:19	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	30	8260B	05/27/05 17:19	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	05/27/05 17:19	JGH	591-78-6	
2-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/27/05 17:19	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	1634-04-4	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	630-20-6	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	87-61-6	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	96-18-4	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	106-93-4	
1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	764-41-0	
1-Methylnaphthalene	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	91-57-6	
Acrylonitrile	Not detected	ug/L	2	8260B	05/27/05 17:19	JGH	107-13-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	108-86-1	
Bromochloromethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	74-97-5	
Dibromomethane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	74-95-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	75-71-8	
Diethyl ether	Not detected	ug/L	10	8260B	05/27/05 17:19	JGH	60-29-7	
Hexachloroethane	Not detected	ug/L	5	8260B	05/27/05 17:19	JGH	67-72-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	74-88-4	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/27/05 17:19	JGH	109-99-9	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	75-69-4	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:19	JGH	526-73-8	



# Analytical Laboratory Report

ab Sample ID: S22342.04  
 Sample Tag: MW-03S  
 Collected Date/Time: 05/20/2005 13:45  
 Matrix: Groundwater  
 DOC Reference: 029119

## Sample Containers

Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
40 ml Glass	HCL	Yes	4	3

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>Volatile Organics - DEQ List</b>								
Benzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	108-90-7	
Chloroethane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	67-66-3	
Chloromethane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	124-48-1	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	106-46-7	
1,1-Dichloroethane	8	ug/L	1	8260B	05/27/05 17:52	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	75-35-4	
cis-1,2-Dichloroethene	8	ug/L	1	8260B	05/27/05 17:52	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	156-80-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	75-09-2	
Naphthalene	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	108-67-8	
Vinyl chloride	8	ug/L	1	8260B	05/27/05 17:52	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	2	8260B	05/27/05 17:52	JGH		



# Analytical Laboratory Report

Sample ID: S22342.04 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Acetone	Not detected	ug/L	50	8260B	05/27/05 17:52	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	30	8260B	05/27/05 17:52	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	05/27/05 17:52	JGH	591-78-6	
2-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/27/05 17:52	JGH	108-10-1	
tert-Butyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	1634-04-4	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	630-20-6	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	87-61-6	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	96-18-4	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	106-93-4	
1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	764-41-0	
1-Methylnaphthalene	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	91-57-6	
Acrylonitrile	Not detected	ug/L	2	8260B	05/27/05 17:52	JGH	107-13-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	108-86-1	
Bromochloromethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	74-97-5	
Dibromomethane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	74-95-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	75-71-8	
Diethyl ether	Not detected	ug/L	10	8260B	05/27/05 17:52	JGH	60-29-7	
Hexachloroethane	Not detected	ug/L	5	8260B	05/27/05 17:52	JGH	67-72-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	74-88-4	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/27/05 17:52	JGH	109-99-9	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	75-69-4	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 17:52	JGH	526-73-8	



# Analytical Laboratory Report

ab Sample ID: S22342.05  
 Sample Tag: Trip Blank  
 Collected Date/Time: 05/20/2005  
 Matrix: Groundwater  
 LOC Reference: 029119

Sample Containers

Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
40 ml Glass	HCL	Yes	4	3

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>Volatile Organics - DEQ List</b>								
Benzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	108-90-7	
Chloroethane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	67-66-3	
Chloromethane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	124-48-1	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	75-35-4	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	98-82-8	
n-Isopropyltoluene	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	75-09-2	
Naphthalene	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	75-01-4	
p-Xylene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	95-47-6	
m-Xylene	Not detected	ug/L	2	8260B	05/27/05 18:25	JGH		



# Analytical Laboratory Report

ab Sample ID: S22342.05 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Acetone	Not detected	ug/L	50	8260B	05/27/05 18:25	JGH	67-64-1	
-Butanone (MEK)	Not detected	ug/L	30	8260B	05/27/05 18:25	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	75-15-0	
-Hexanone	Not detected	ug/L	50	8260B	05/27/05 18:25	JGH	591-78-6	
-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/27/05 18:25	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	1634-04-4	
,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	630-20-6	
,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	87-61-6	
,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	96-18-4	
,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	120-82-1	
,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	96-12-8	
,2-Dibromoethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	106-93-4	
,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	764-41-0	
-Methylnaphthalene	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	91-57-6	
Acrylonitrile	Not detected	ug/L	2	8260B	05/27/05 18:25	JGH	107-13-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	108-86-1	
Bromochloromethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	74-97-5	
Dibromomethane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	74-95-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	75-71-8	
Diethyl ether	Not detected	ug/L	10	8260B	05/27/05 18:25	JGH	60-29-7	
Hexachloroethane	Not detected	ug/L	5	8260B	05/27/05 18:25	JGH	67-72-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	74-88-4	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/27/05 18:25	JGH	109-99-9	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	75-69-4	
,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/27/05 18:25	JGH	526-73-8	



**REPORT TO**

**CHAIN OF CUSTODY RECORD**

**INVOICE TO**

CONTACT NAME: Babusakumar  
 COMPANY: Weston Solutions Inc  
 ADDRESS: 750 Banker Court  
 CITY: Vernon Hills STATE: IL ZIP CODE: 60061  
 PHONE NO.: 847 918 4000 FAX NO.: 847 918 4055 P.O. NO.:  
 E-MAIL ADDRESS: Babu.Babusakumar@westonsolutions.com QUOTE NO.:

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

**ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)**

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

SPECIAL INSTRUCTIONS/NOTES

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	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER	VOC
	DATE	TIME											
2234701	5/20/05	1220	MW-15S	GW	2		X						X
.02		1220	MW-15S DUP				X						X
.03		1300	MW-14S				X						X
.04		1345	MW-03S				X						X
.05	-	-	Trip Blank										

RELINQUISHED BY: [Signature] WESTON DATE: TIME:  
 RECEIVED BY: DATE: TIME:  
 RELINQUISHED BY: DATE: TIME:  
 RECEIVED BY: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: TIME:  
 RECEIVED BY: [Signature] DATE: 5-20-05 TIME: 1500  
 SEAL NO. SEAL INTACT YES  NO  INITIALS NOTES: TEMP. ON ARRIVAL \_\_\_\_\_  
 SEAL NO. SEAL INTACT YES  NO  INITIALS



# Quality Control Report

Report ID: QC-S22342.01(01)  
Generated on 06/21/2005

Report to

Attention: Mr. Babusukumar  
Weston Solutions, Inc.  
750 East Bunker Court Ste 500  
Vernon Hills, IL 60061

Phone: 847-918-4018 FAX: 847-918-4055

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): S22342.01-S22342.05  
Project: Lindin Rd. - GM  
Submitted Date/Time: 05/20/2005 15:00  
Sampled by: Kirk Lapham  
P.O. #:

Report Notes

Results relate only to items tested.  
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 RDL.  
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

*Violetta F. Murshak*

Violetta F. Murshak  
Laboratory Director

## QC Report - Analysis Summary

Lab Sample ID: S22342.01

Sample Tag: MW-15S

Collected Date/Time: 05/20/2005 12:20

Matrix: Groundwater

COC Reference: 029119

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<b>Organics - Volatiles</b>						
Volatile Organics - DEQ List	8260B	05/27/05 16:14	050526AR	VF050526W2	Yes	LCS/BLK/MS/MSD

## QC Report - Analysis Summary

Lab Sample ID: S22342.02  
Sample Tag: MW-15S Dup  
Collected Date/Time: 05/20/2005 12:20  
Matrix: Groundwater  
COC Reference: 029119

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<b>Organics - Volatiles</b>						
Volatile Organics - DEQ List	8260B	05/27/05 16:46	050526AR	VF050526W2	Yes	LCS/BLK/MS/MSD

## QC Report - Analysis Summary

Lab Sample ID: S22342.03

Sample Tag: MW-14S

Collected Date/Time: 05/20/2005 13:00

Matrix: Groundwater

COC Reference: 029119

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<b>Organics - Volatiles</b>						
Volatile Organics - DEQ List	8260B	05/27/05 17:19	050526AR	VF050526W2	Yes	LCS/BLK/MS/MSD

## QC Report - Analysis Summary

Lab Sample ID: S22342.04

Sample Tag: MW-03S

Collected Date/Time: 05/20/2005 13:45

Matrix: Groundwater

COC Reference: 029119

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Organics - Volatiles</i>						
Volatile Organics - DEQ List	8260B	05/27/05 17:52	050526AR	VF050526W2	Yes	LCS/BLK/MS/MSD

## QC Report - Analysis Summary

Lab Sample ID: S22342.05

Sample Tag: Trip Blank

Collected Date/Time: 05/20/2005 :

Matrix: Groundwater

COC Reference: 029119

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<b>Organics - Volatiles</b>						
Volatile Organics - DEQ List	8260B	05/27/05 18:25	050526AR	VF050526W2	Yes	LCS/BLK/MS/MSD

## QC Report - Prep Batch Summary

Organics - Volatiles, Prep Batch ID: VF050526W2

Surrogates: Yes, QC Types: LCS/BLK/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S22342.01	Volatile Organics - DEQ List	8260B	05/27/05 16:14	050526AR
S22342.02	Volatile Organics - DEQ List	8260B	05/27/05 16:46	050526AR
S22342.03	Volatile Organics - DEQ List	8260B	05/27/05 17:19	050526AR
S22342.04	Volatile Organics - DEQ List	8260B	05/27/05 17:52	050526AR
S22342.05	Volatile Organics - DEQ List	8260B	05/27/05 18:25	050526AR

## QC Report - Surrogate Results per Lab Sample

Lab Sample ID: S22342.01

Sample Tag: MW-15S

Collected Date/Time: 05/20/2005 12:20

Matrix: Groundwater

COC Reference: 029119

### Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 050526AR, Run Date: 05/27/2005 16:14, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	53.27	106.50	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	43.88	87.80	66.4	124.8
Toluene-D8		ug/L	50.00	46.36	92.70	82.5	118.4

## QC Report - Surrogate Results per Lab Sample

Lab Sample ID: S22342.02

Sample Tag: MW-15S Dup

Collected Date/Time: 05/20/2005 12:20

Matrix: Groundwater

COC Reference: 029119

### Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 050526AR, Run Date: 05/27/2005 16:46, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	51.85	103.70	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	43.68	87.40	66.4	124.8
Toluene-D8		ug/L	50.00	47.75	95.50	82.5	118.4

## QC Report - Surrogate Results per Lab Sample

Lab Sample ID: S22342.03

Sample Tag: MW-14S

Collected Date/Time: 05/20/2005 13:00

Matrix: Groundwater

COC Reference: 029119

### Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 050526AR, Run Date: 05/27/2005 17:19, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	51.81	103.60	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	42.83	85.70	66.4	124.8
Toluene-D8		ug/L	50.00	48.25	96.50	82.5	118.4

## QC Report - Surrogate Results per Lab Sample

Lab Sample ID: S22342.04  
Sample Tag: MW-03S  
Collected Date/Time: 05/20/2005 13:45  
Matrix: Groundwater  
COC Reference: 029119

### Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 050526AR, Run Date: 05/27/2005 17:52, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	41.28	82.60	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	44.22	88.40	66.4	124.8
Toluene-D8		ug/L	50.00	49.61	99.20	82.5	118.4

## QC Report - Surrogate Results per Lab Sample

Lab Sample ID: S22342.05

Sample Tag: Trip Blank

Collected Date/Time: 05/20/2005 :

Matrix: Groundwater

COC Reference: 029119

### Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 050526AR, Run Date: 05/27/2005 18:25, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	50.94	101.90	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	46.56	93.10	66.4	124.8
Toluene-D8		ug/L	50.00	46.47	92.90	82.5	118.4

## QC Report - Surrogate Results per QC Sample

Organics - Volatiles, Prep Batch ID: VF050526W2

Surrogates: Yes, QC Types: LCS/BLK/MS/MSD

### Laboratory Control Sample (LCS)

Lab Sample ID: 050526ar.lcsw27a

Run in Batch: 050526AR, Run Date: 05/27/2005 22:47, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	42.40	84.80	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	46.31	92.60	66.4	124.8
Toluene-D8		ug/L	50.00	47.83	95.70	82.5	118.4

### Blank (BLK)

Lab Sample ID: 050526ar.blkw27a

Run in Batch: 050526AR, Run Date: 05/27/2005 22:14, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	50.23	100.50	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	45.82	91.60	66.4	124.8
Toluene-D8		ug/L	50.00	47.28	94.60	82.5	118.4

### Matrix Spike (MS)

Lab Sample ID: 050526ar.2235301m, Parent Sample ID: S22353.01

Run in Batch: 050526AR, Run Date: 05/27/2005 23:20, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	42.02	84.00	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	46.95	93.90	66.4	124.8
Toluene-D8		ug/L	50.00	48.49	97.00	82.5	118.4

### Matrix Spike Duplicate (MSD)

Lab Sample ID: 050526ar.2235301n, Parent Sample ID: 050526ar.2235301m

Run in Batch: 050526AR, Run Date: 05/27/2005 23:53, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Surrogate	Flags	Units	Spike Added	Spike Meas	%Rec	LCL	UCL
4-Bromofluorobenzene		ug/L	50.00	42.94	85.90	78.4	119.6
1,2-Dichloroethane-D4		ug/L	50.00	44.63	89.30	66.4	124.8
Toluene-D8		ug/L	50.00	49.02	98.00	82.5	118.4

## QC Report - QC Batch Results

Organics - Volatiles, Prep Batch ID: VF050526W2

Surrogates: Yes, QC Types: LCS/BLK/MMS/MSD

### Laboratory Control Sample (LCS)

Lab Sample ID: 050526ar.lcsw27a

Run in Batch: 050526AR, Run Date: 05/27/2005 22:47, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Analyte	Flags	Units	Orig Conc	Spike Add	Spike Meas	% Rec	LCL	UCL
Benzene		ug/L	ND	25.00	26.35	<b>105.40</b>	73.7	127.0
Chlorobenzene		ug/L	ND	25.00	30.42	<b>121.68</b>	75.0	130.0
1,1-Dichloroethene		ug/L	ND	25.00	19.61	<b>78.44</b>	59.9	145.0
Trichloroethene		ug/L	ND	25.00	26.38	<b>105.52</b>	71.0	121.2
Toluene		ug/L	ND	25.00	25.92	<b>103.68</b>	71.4	127.6

### Blank (BLK)

Lab Sample ID: 050526ar.blkw27a

Run in Batch: 050526AR, Run Date: 05/27/2005 22:14, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Analyte	Flags	Units	RDL	Conc
Benzene		ug/L	1	ND
Bromodichloromethane		ug/L	1	ND
Bromoform		ug/L	1	ND
Bromomethane		ug/L	1	ND
n-Butylbenzene		ug/L	1	ND
sec-Butylbenzene		ug/L	1	ND
tert-Butylbenzene		ug/L	1	ND
Carbon tetrachloride		ug/L	1	ND
Chlorobenzene		ug/L	1	ND
Chloroethane		ug/L	1	ND
Chloroform		ug/L	1	ND
Chloromethane		ug/L	1	ND
Dibromochloromethane		ug/L	1	ND
1,2-Dichlorobenzene		ug/L	1	ND
1,3-Dichlorobenzene		ug/L	1	ND
1,4-Dichlorobenzene		ug/L	1	ND
1,1-Dichloroethane		ug/L	1	ND
1,2-Dichloroethane		ug/L	1	ND
1,1-Dichloroethene		ug/L	1	ND
cis-1,2-Dichloroethene		ug/L	1	ND
trans-1,2-Dichloroethene		ug/L	1	ND
1,2-Dichloropropane		ug/L	1	ND
cis-1,3-Dichloropropene		ug/L	1	ND
trans-1,3-Dichloropropene		ug/L	1	ND
Ethylbenzene		ug/L	1	ND
Isopropylbenzene		ug/L	1	ND
p-Isopropyltoluene		ug/L	1	ND
Methylene chloride		ug/L	1	ND
Naphthalene		ug/L	1	ND
n-Propylbenzene		ug/L	1	ND
Styrene		ug/L	1	ND
1,1,2,2-Tetrachloroethane		ug/L	1	ND
Tetrachloroethene		ug/L	1	ND
Toluene		ug/L	1	ND
1,1,1-Trichloroethane		ug/L	1	ND
1,1,2-Trichloroethane		ug/L	1	ND

### QC Report - QC Batch Results

Organics - Volatiles, Prep Batch ID: VF050526W2 (continued)

Surrogates: Yes, QC Types: LCS/BLK/MS/MSD

**Blank (BLK) (continued)**

Lab Sample ID: 050526ar.blkw27a

Run in Batch: 050526AR, Run Date: 05/27/2005 22:14, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Analyte	Flags	Units	RDL	Conc
Trichloroethene		ug/L	1	ND
1,2,4-Trimethylbenzene		ug/L	1	ND
1,3,5-Trimethylbenzene		ug/L	1	ND
Vinyl chloride		ug/L	1	ND
o-Xylene		ug/L	1	ND
p,m-Xylene		ug/L	1	ND
Acetone		ug/L	10	ND
2-Butanone (MEK)		ug/L	10	ND
Carbon disulfide		ug/L	1	ND
2-Hexanone		ug/L	10	ND
4-Methyl-2-pentanone (MIBK)		ug/L	10	ND
tert-Methyl butyl ether (MTBE)		ug/L	1	ND
1,1,1,2-Tetrachloroethane		ug/L	1	ND
1,2,3-Trichloropropane		ug/L	10	ND
1,2,4-Trichlorobenzene		ug/L	1	ND
1,2-Dibromo-3-chloropropane		ug/L	10	ND
1,2-Dibromoethane		ug/L	1	ND
2-Methylnaphthalene		ug/L	1	ND
Acrylonitrile		ug/L	1	ND
Bromobenzene		ug/L	1	ND
Bromochloromethane		ug/L	1	ND
Dibromomethane		ug/L	1	ND
Dichlorodifluoromethane		ug/L	1	ND
Diethyl ether		ug/L	1	ND
Hexachloroethane		ug/L	1	ND
Methyl iodide		ug/L	1	ND
Tetrahydrofuran		ug/L	10	ND
Trichlorofluoromethane		ug/L	1	ND
1,2,3-Trimethylbenzene		ug/L	1	ND

**Matrix Spike (MS)**

Lab Sample ID: 050526ar.2235301m, Parent Sample ID: S22353.01

Run in Batch: 050526AR, Run Date: 05/27/2005 23:20, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Analyte	Flags	Units	Orig Conc	Spike Add	Spike Meas	% Rec	LCL	UCL
Benzene		ug/L	37.30	25.00	59.30	88.00	73.7	127.0
Chlorobenzene		ug/L	ND	25.00	29.53	118.12	75.0	130.0
1,1-Dichloroethene		ug/L	ND	25.00	17.49	69.96	59.9	145.0
Trichloroethene		ug/L	ND	25.00	24.90	99.60	71.0	121.2
Toluene		ug/L	ND	25.00	25.80	103.20	71.4	127.6

**Matrix Spike Duplicate (MSD)**

Lab Sample ID: 050526ar.2235301n, Parent Sample ID: 050526ar.2235301m

Run in Batch: 050526AR, Run Date: 05/27/2005 23:53, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Analyte	Flags	Units	Orig Conc	Spike Add	Spike Meas	% Rec	LCL	UCL	MS Conc	RPD	RPD CL
Benzene		ug/L	37.30	25.00	60.60	93.20	73.7	127.0	59.30	2.2	20.0
Chlorobenzene		ug/L	ND	25.00	30.58	122.32	75.0	130.0	29.53	3.5	20.0

### QC Report - QC Batch Results

Organics - Volatiles, Prep Batch ID: VF050526W2 (continued)

Surrogates: Yes, QC Types: LCS/BLK/MMS/MSD

Matrix Spike Duplicate (MSD) (continued)

Lab Sample ID: 050526ar.2235301n, Parent Sample ID: 050526ar.2235301m

Run in Batch: 050526AR, Run Date: 05/27/2005 23:53, Prep Date: 05/26/2005, Matrix: WW, Dilution: 1

Analyte	Flags	Units	Orig Conc	Spike Add	Spike Meas	% Rec	LCL	UCL	MS Conc	RPD	RPD CL
1,1-Dichloroethene		ug/L	ND	25.00	17.52	70.08	59.9	145.0	17.49	0.2	20.0
Trichloroethene		ug/L	ND	25.00	26.46	105.84	71.0	121.2	24.90	6.1	20.0
Toluene		ug/L	ND	25.00	26.74	106.96	71.4	127.6	25.80	3.6	20.0

**GM  
Linden Road  
22342**

**General Comment:**

All samples were analyzed within the required holding times.

**Volatile Organics:**

Lab ID (22342)	Sample ID	Sample Date	Analysis Date
01	MW-15S	5/20/05	5/27/05
02	MW-15SDup	5/20/05	5/27/05
03	MW-14S	5/20/05	5/27/05
04	MW-03S	5/20/05	5/27/05
05	Trip Blank	5/20/05	5/27/05

**1. Method Blank:**

The method blank was free of contamination.

**2. Surrogate Recovery**

All surrogate recoveries associated with this sample set were within required limits.

**3. Matrix Spike/Matrix Spike Duplicate**

Batch matrix spike recoveries were submitted and were from another client sample. No qualifications are applied.

**4. Instrument Performance Check**

All instrument performance check results are acceptable.

**5. Laboratory Control Sample**

All LCS recoveries were within required control limits.

**6. Trip Blank**

Sample 5 was a trip blank. The blank was free of contamination.

**7. Field Duplicate**

Samples 2 and 3 are field duplicates. Results show good overall correlation.

Data Reviewed by: T. Balla

Date: 6/22/05

**ATTACHMENT B**

**FIELD NOTES**

CLIENT/SUBJECT GM Linden Rd W.O. NO. \_\_\_\_\_

TASK DESCRIPTION GW Sampling TASK NO. \_\_\_\_\_

PREPARED BY K. Lephram DEPT \_\_\_\_\_ DATE 5/20/05

APPROVED BY

MATH CHECK BY \_\_\_\_\_ DEPT \_\_\_\_\_ DATE \_\_\_\_\_

METHOD REV. BY \_\_\_\_\_ DEPT \_\_\_\_\_ DATE \_\_\_\_\_

DEPT _____	DATE _____
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Clear 70°-75°F

900 WESTON onsite (K. Lephram). Attempt to open gate lock, will not open.

920 Call Client contact @ GM - not sure if gate lock was changed recently. Suggests cutting link out of chain and adding lock. WESTON to hold name store to get materials.

945 Attempt to use graphite and WD40 to lubricate lock (existing) in case it is stuck before cutting chain. Adding lubrication does not get lock to work.

1000 Start attempting to cut chain w/ bolt cutters.

1115 Able to cut most of the way through the chain, but unable to get link open.

1130 Plan to attempt to fit equipment through opening in gate and the fit through.

1145 Able to get through gate w/o opening. Set up and start pumping @ MW-15S.

1220 Collect sample & dup @ MW-15S

1300 Collect sample @ MW-148

1345 Collect sample @ MW-038

1430 WESTON off site. Left new lock on site chain @ gate. May be best to get new chain and use lock to ensure WESTON always able to get into site in the future.

1530 Drop off samples @ Mar. 1 lb

1630 Ship equipment & drop off rental car

K. Lephram

PROJECT: Linden Rd GM

TEMPORARY WELL/MONITOR WELL LOW FLOW SAMPLING FIELD DATA SHEET

PROJECT NUMBER: \_\_\_\_\_

Date	Well ID	Sample Time	Sample ID	Initial Water Level	Time (minutes)	Purge Water Level	pH	Conductivity	Temperature	DO	Redox	Pump Rate (ml/min)	Comments				
5/20/05	MW 15S	1220	MW 15S & PUMP	9.45'	1145	0.14	7.8	1197	10.67	21.74	25.5	100	color: clear				
					1150	0.30	6.92	1150	10.43	11.90	47.3	100	sheen: yes <input checked="" type="checkbox"/> no				
					1155	0.5	6.91	1138	9.86	21.93	52.3	100	odor: yes <input checked="" type="checkbox"/> no				
					1158	0.6	6.91	1122	10.19	21.67	56.4	100	Sample Method: Peristaltic Pump				
					1201	0.7	6.91	1116	10.26	24.37	56.6	100	Keck Pump				
					1204	0.8	6.91	1114	10.30	23.97	54.8	100	Grundfos Pump				
					1207	0.9	6.91	1122	10.29	23.19	54.3	100	Other:				
					1210	1.0	6.91	1122	10.27	23.55	57.1	100					
					1215	1.2	6.91	1124	10.24	23.51	56.1	100	Sampling Comments:				
Samplers: KL																	
5/20/05	MW 14S	1300	MW 14S	4.64'	1230	0.1g	7.00	1642	10.95	14.40	-18.1	100	color: 1.00 turb - orange - clear				
				4.71'	1235	0.38	6.89	1633	10.77	10.57	-12.7	100	sheen: yes <input checked="" type="checkbox"/> no				
					1240	0.6	6.58	1626	10.76	6.70	-11.7	100	odor: yes <input checked="" type="checkbox"/> no				
					1243	0.6	6.54	1622	10.70	0.63	-15.8	100	Sample Method: Peristaltic Pump				
					1246	0.7	6.54	1621	10.54	1.70	-15.8	100	Keck Pump				
					1249	0.8	6.90	1614	10.60	1.69	-16.4	100	Grundfos Pump				
					1252	0.9	6.90	1610	10.55	1.72	-16.7	100	Other:				
					1255	1.1	6.90	1611	10.57	1.50	-16.9	100	Sampling Comments:				
																	0.0 ppm in BZ VOC 0.0 ppm @ well casing VOC
				Samplers: KL													
5/20/05	MW 3S	1345	MW 3S	3.44'	1310	0.1	6.50	1429	11.78	8.77	-10.6	100	color: 4.0 turb brown - clear				
					1315	0.3	6.53	1409	11.85	7.17	7.1	100	sheen: yes <input checked="" type="checkbox"/> no				
					1320	0.6	6.53	1395	11.05	54.42	11.7	100	odor: yes <input checked="" type="checkbox"/> no				
					1325	0.9	6.56	1397	11.08	46.87	12.5	100	Sample Method: Peristaltic Pump				
					1328	1.0	6.58	1397	11.09	42.91	13.0	100	Keck Pump				
					1331	1.1	6.59	1397	11.07	41.90	13.1	100	Grundfos Pump				
					1334	1.2	6.59	1398	11.08	41.81	13.5	100	Other:				
					1339	1.4	6.58	1399	11.06	41.93	13.7	100	Sampling Comments:				
																	0.0 ppm in BZ VOC 0.0 ppm @ well casing VOC
				Samplers: KL													