



# Moraine Environmental, Inc.

Environmental Management Services

March 13, 2000

Mr. John Feeney, Hydrogeologist  
Wisconsin Department of Natural Resources  
Southeast District - Annex Building  
P.O. Box 12436  
Milwaukee, WI 53212

Proj. Ref. #1177  
FID#246009170

RE: Biannual Groundwater Monitoring Results – **January, 2000**  
**Tecumseh Products Company Facility, Grafton Operation**

Dear John:

Moraine Environmental, Inc. (MEI) has been retained by the Tecumseh Products Company to provide technical field service to monitor groundwater quality on a biannual basis at the Tecumseh Products Company Grafton Operation. Consulting and engineering services continue to be provided by RMT, Inc. of Madison, Wisconsin.

This letter report was prepared to summarize the January, 2000 sampling and analysis of ten downgradient groundwater monitoring wells and three downgradient potable residential wells for Volatile Organic Compounds (VOCs). The analytical results are summarized in tabular form and previous sample results are provided for comparison purposes.

Accordingly, the following summarization is presented:

### Sample Collection Methodologies

The collection of samples from the monitoring wells was performed on January 6, 2000. The following downgradient wells were purged and sampled for EPA Method 8260 VOCs analysis:

MW-3 D	MW-12 BR	MW-21 BR(1)
MW-9	MW-19 BR(1)	MW-21 BR(2)
MW-9D	MW-19 BR(2)	MW-22 BR
MW-12		

The locations of these wells are illustrated on the enclosed figure.

Private water supply wells PW-38 (Wendtland Property), PW-5 (Raess Property), and PW-30 (Heiser Property) were also sampled for VOCs on February 28, 2000.

Groundwater samples from monitoring wells MW-9, MW-9D, MW-12, and MW-22 BR were purged and sampled using new, disposable teflon bailers. Samples were transferred into 40 milliliter (ml) vials, placed into an ice-filled cooler, and transported to the laboratory (EnChem, Inc.) for analysis. The remaining monitoring wells were sampled through dedicated multi-level bladder pump systems (Solinst Waterloo) installed during well construction. Wells MW-3 BR, MW-13, MW-18, and MW-20 could not be sampled due to mechanical failure of the pumps or controller. Based on a comparison of the analytical results with previously acquired results, the samples collected from MW-19 BR (1) and MW-19 BR (2) were inverted during collection or labeling. The laboratory reports have been altered to remedy the discrepancy. The private wells (PW-38, PW-5, and PW-30) were sampled by allowing the cold taps to run for a minimum of fifteen minutes to allow for aquifer water to enter the system, then reducing the flow volume (removing the faucet aerators) and collecting and storing the samples.

VOC groundwater samples were collected, stored, transported, and analyzed for 8260 VOCs by EnChem, Inc. Laboratories in Green Bay, Wisconsin.

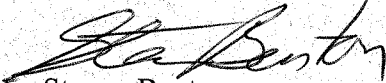
### Analytical Results

All monitoring well groundwater samples were analyzed for EPA Method 8260 VOCs by EnChem, Inc. of Green Bay, Wisconsin. The analytical results are summarized on the enclosed analytical results table. The laboratory reports are enclosed as Attachment A. Tables summarizing previous analytical results are enclosed as Attachment B to allow for a comparison of recent analytical results with previously acquired groundwater quality data. VOCs at concentrations exceeding Wisconsin Administrative Code Chapter NR 140 Groundwater Quality Enforcement Standards were detected in monitoring wells MW-3D, MW-9, MW-9D MW-12, MW-12 BR, MW-19 BR(1), MW-19 BR(2), MW-21 BR(1) and MW-22 BR. Preventive Action Limits were exceeded in the private water supply wells (PW-38 and PW-30). The analytical results indicate that contaminant concentrations were slightly higher than previously acquired analytical results.

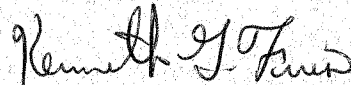
Biannual samples will again be collected in June, 2000. If you have any questions or concerns regarding this letter, the monitoring methodologies or results, please call our office at (262) 377-9060.

Sincerely,

**MORaine ENVIRONMENTAL, INC.**



Steven Benton  
Project Hydrogeologist



Kenneth G. Fries, P.E.  
Technical Operations Manager

enc.

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1/2000

**TABLE 1  
TECUMSEH MONITORING - GRAFTON FACILITY  
GROUNDWATER LAB RESULTS (detected compounds only)**

Well Name	MW-3-D	MW-9	MW-9D	MW-12	MW-12 BR	MW-19 BR (1)	MW-19 BR (2)	MW-21 BR (1)	MW-21 BR (2)	MW-22 BR	Raess Residence PW-5	Wendtland Residence PW-38	Heiser Residence PW-30	NR140 ES	NR140 PAL
Collection Date	1/6/00	1/6/00	1/6/00	1/6/00	1/6/00	1/6/00	1/6/00	1/6/00	1/6/00	1/6/00	2/28/00	2/28/00	2/28/00		
1,1-Dichloroethene	<0.43	<b>24</b>	<b>19</b>	<4.3	<b>10</b>	<b>15.0</b>	<b>1.4</b>	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	7.0	0.7
cis-1,2-Dichloroethene	0.46	<b>760</b>	<b>180</b>	12	<b>180</b>	48.0	<b>10</b>	<0.28	<0.28	6.8	<0.28	<0.28	3.2	70	7.0
trans-1,2-Dichloroethane	<0.79	16	<7.9	<7.9	<b>&lt;0.79</b>	<1.6	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	100	20.0
1,1-Dichloroethane	<0.35	56	70	17	80	100	6.7	<0.35	<0.35	0.98	1.10	2.80	3.20	850	85
Diisopropyl Ether	10.0	<5.5	<5.5	<5.5	<0.55	<1.1	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	NSE	NSE
Toluene	<0.27	<2.7	<2.7	<2.7	3.9	<0.54	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	1,000	200
1,1,1-Trichloroethane	<0.30	<b>310</b>	<b>170</b>	<b>110</b>	<b>110</b>	3.4	<0.30	<0.30	<0.30	<0.30	1.1	1.6	1.4	200	40
Trichloroethene	<b>9.0</b>	<b>2,000</b>	<b>910</b>	<b>980</b>	<b>2.5</b>	<b>320</b>	<b>3.7</b>	<0.37	<0.37	<b>33</b>	<0.37	<b>2.4</b>	<b>4.2</b>	5.0	0.5
Vinyl Chloride	<0.20	<2.0	<b>9.0</b>	<2.0	<0.20	<b>2.9</b>	<b>2.0</b>	<b>0.31</b>	<0.20	<0.20	<0.20	<0.20	<0.20	0.2	0.02

Notes:

ug/L = micrograms per liter = parts per billion (ppb)

NSE - No Standard Established

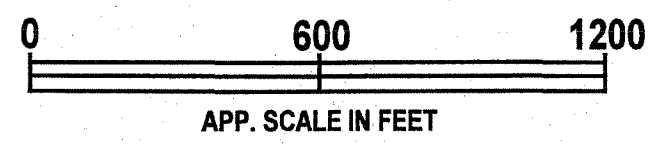
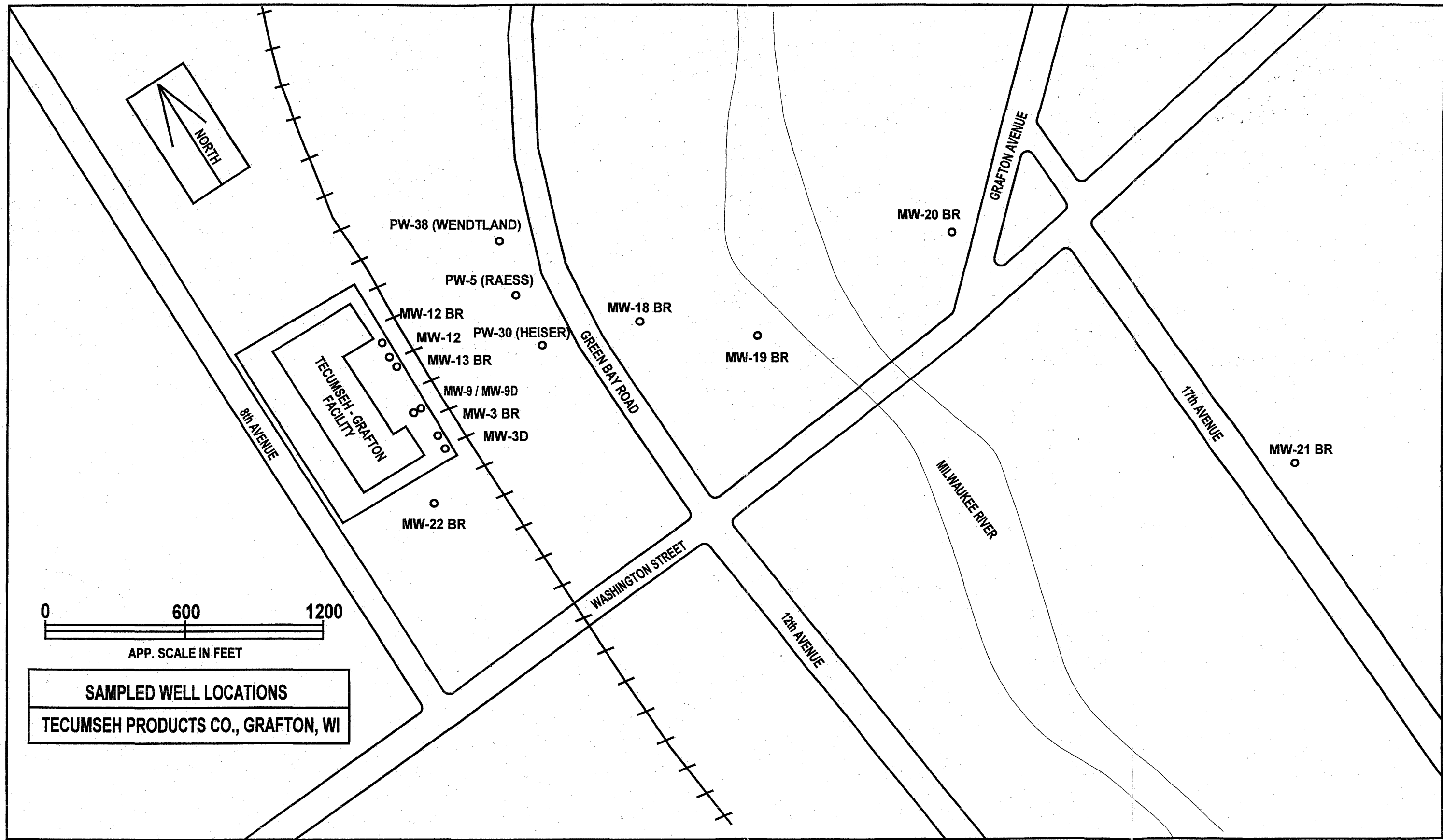
ES = NR140.10 Enforcement Standard

PAL = NR140.10 Preventative Action Limit

Highlighted and **Bold** results indicate concentrations exceeding WDNR NR140 ES

**Bold** results indicate concentrations exceeding WDNR NR140 PAL

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**SAMPLED WELL LOCATIONS**  
**TECUMSEH PRODUCTS CO., GRAFTON, WI**

**ATTACHMENT A**  
**ANALYTICAL REPORTS**

Company Name: Moraine Environmental  
 Branch or Location: Grafton  
 Project Contact: S. Benton  
 Telephone: 377-9060  
 Project Number: 1177  
 Project Name: Tecumseh  
 Project Location: Grafton  
 Sampled By (Print): Mike Ritzky / Brian Duder  
 Regulatory Program (circle): UST RCRA CLP SDWA  
 NPDES/WPDES CAA NR  
 Other  
 NR20 Confirmation Analysis Required? (circle): Y N  
 (En Chem will not confirm unless otherwise instructed.)



1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436 • 1-800-736-2436  
 FAX 920-469-8827

525 Science Drive  
 Madison, WI 53711  
 608-232-3300 • 1-888-536-2436  
 FAX: 608-233-0502

1423 N. 8th Street, Suite 122  
 Superior, WI 54880  
 715-392-5844 • 1-800-837-8238  
 FAX 715-392-5843

# CHAIN OF CUSTODY

25530

Page 1 of 1

P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_

Mail Report To: S. Benton

Company: Moraine Env. Inc.

Address: 1234 12th Ave  
 Grafton WI 53024

Invoice To: SMW

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Mail Invoice To: \_\_\_\_\_

FILTERED? (YES/NO) \_\_\_\_\_  
 PRESERVATION (CODE)\* \_\_\_\_\_

ANALYSES REQUESTED  
 UIC's (8260000)

FIELD ID	SAMPLE DESCRIPTION	COLLECTION		FIELD SCREEN	MATRIX	GOOD COND.	TOTAL BOTTLES	COMMENTS	LABORATORY NUMBER
		DATE	TIME						
	MW-3 D	1/1/00		X					001
	MW-9			V					002
	MW-9 D			V					003
	MW-12			V					004
	MW-12 BR			X					005
	MW-19 BR-1			V					006
	MW-19 BR-2			V					007
	MW-21 BR-1			V					008
	MW-21 BR-2			V					009
	MW-22 BR			V					010
NOTE: BLANK									
									1/10/2000

**\*Preservation Code**  
 A=None B=HCL C=H2SO4  
 D=HN03 E=EnCore F=Methanol\*\*  
 G=NaOH O=Other (indicate)  
 \*\*If not using En Chem's methanol, indicate volume of methanol added and mark the appropriate samples.

Relinquished By: Michael Ritzky Date/Time: 1/10/99  
 Relinquished By: B. Kempen Date/Time: 1/10/99 1600  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: B. Kempen Date/Time: 1/10/00 1155  
 Received By: Dona Wytatos Date/Time: 1/10/99 1600  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By (En Chem): \_\_\_\_\_ Date/Time: \_\_\_\_\_

En Chem Project No. 800079  
 Sample Receipt Temp. RW  
 Sample Receipt pH (Metals)





1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

## - Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Client: MORaine ENVIRONMENTAL INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
800079-001	MW-3D	1/6/00			
800079-002	MW-9	1/6/00			
800079-003	MW-9D	1/6/00			
800079-004	MW-12	1/6/00			
800079-005	MW-12BR	1/6/00			
800079-006	MW-19 BR-1	1/6/00			
800079-007	MW-19 BR-2	1/6/00			
800079-008	MW-21 BR-1	1/6/00			
800079-009	MW-21 BR-2	1/6/00			
800079-010	MW-22 BR	1/6/00			

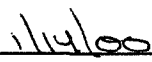
Please visit our Internet homepage at: [www.encheminc.com](http://www.encheminc.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

  
Approval Signature

  
Date



- Analytical Report -

Project Name : TECUMSEH  
Project Number : #1177  
Field ID : MW-3D  
Lab Sample Number : 800079-001  
WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC  
Report Date : 1/13/00  
Collection Date : 1/6/00  
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 1/12/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		1/12/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		1/12/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	0.46	0.28	0.89		ug/L	Q	1/12/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		1/12/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-3D

Lab Sample Number : 800079-001

WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Diisopropyl ether	10	0.55	1.8	ug/L	1/12/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Fluorotrchloromethane	< 0.28	0.28	0.89	ug/L	1/12/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	1/12/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	1/12/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	1/12/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	1/12/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	1/12/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	1/12/00	SW846 8260B
Trichloroethene	9.0	0.37	1.2	ug/L	1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	1/12/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
4-Bromofluorobenzene	98			%Recov	1/12/00	SW846 8260B
Dibromofluoromethane	110			%Recov	1/12/00	SW846 8260B
Toluene-d8	106			%Recov	1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-9

Lab Sample Number : 800079-002

WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 1/12/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 2.7	2.7	8.6		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 8.3	8.3	26		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 4.2	4.2	13		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 3.0	3.0	9.6		ug/L		1/12/00	SW846 8260B
Bromoform	< 4.4	4.4	14		ug/L		1/12/00	SW846 8260B
Bromomethane	< 7.0	7.0	22		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 2.9	2.9	9.2		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 3.2	3.2	10		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 2.9	2.9	9.2		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 3.4	3.4	11		ug/L		1/12/00	SW846 8260B
Chloroform	< 3.5	3.5	11		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 2.3	2.3	7.3		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 4.2	4.2	13		ug/L		1/12/00	SW846 8260B
Chloroethane	< 5.4	5.4	17		ug/L		1/12/00	SW846 8260B
Chloromethane	< 6.1	6.1	19		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 3.1	3.1	9.9		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 3.2	3.2	10		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.1	4.1	13		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 3.9	3.9	12		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 5.3	5.3	17		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 3.4	3.4	11		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 3.0	3.0	9.6		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 3.7	3.7	12		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 2.5	2.5	8.0		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	24	4.3	14		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	760	2.8	8.9		ug/L		1/12/00	SW846 8260B
Dichlorodifluoromethane	< 4.7	4.7	15		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	16	7.9	25		ug/L	Q	1/12/00	SW846 8260B
1,2-Dichloropropane	< 3.5	3.5	11		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	56	3.5	11		ug/L		1/12/00	SW846 8260B
1,3-Dichloropropane	< 4.2	4.2	13		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 3.6	3.6	11		ug/L		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-9

Lab Sample Number : 800079-002

WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 8.1	8.1	26	ug/L	1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 3.2	3.2	10	ug/L	1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 4.3	4.3	14	ug/L	1/12/00	SW846 8260B
Diisopropyl ether	< 5.5	5.5	18	ug/L	1/12/00	SW846 8260B
Ethylbenzene	< 3.2	3.2	10	ug/L	1/12/00	SW846 8260B
Fluorotrichloromethane	< 2.8	2.8	8.9	ug/L	1/12/00	SW846 8260B
Hexachlorobutadiene	< 6.2	6.2	20	ug/L	1/12/00	SW846 8260B
Isopropylbenzene	< 2.6	2.6	8.3	ug/L	1/12/00	SW846 8260B
p-Isopropyltoluene	< 2.4	2.4	7.6	ug/L	1/12/00	SW846 8260B
Methylene chloride	< 3.6	3.6	11	ug/L	1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 3.2	3.2	10	ug/L	1/12/00	SW846 8260B
Naphthalene	< 3.5	3.5	11	ug/L	1/12/00	SW846 8260B
n-Propylbenzene	< 7.6	7.6	24	ug/L	1/12/00	SW846 8260B
Styrene	< 1.7	1.7	5.4	ug/L	1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 6.9	6.9	22	ug/L	1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 7.0	7.0	22	ug/L	1/12/00	SW846 8260B
Tetrachloroethene	< 4.3	4.3	14	ug/L	1/12/00	SW846 8260B
Toluene	< 2.7	2.7	8.6	ug/L	1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 4.7	4.7	15	ug/L	1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 2.7	2.7	8.6	ug/L	1/12/00	SW846 8260B
1,1,1-Trichloroethane	310	3.0	9.6	ug/L	1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 6.1	6.1	19	ug/L	1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 2.2	2.2	7.0	ug/L	1/12/00	SW846 8260B
Trichloroethene	2000	3.7	12	ug/L	1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 7.5	7.5	24	ug/L	1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 2.7	2.7	8.6	ug/L	1/12/00	SW846 8260B
Vinyl chloride	< 2.0	2.0	6.4	ug/L	1/12/00	SW846 8260B
Xylenes, -m, -p	< 4.3	4.3	14	ug/L	1/12/00	SW846 8260B
Xylene, -o	< 2.4	2.4	7.6	ug/L	1/12/00	SW846 8260B
4-Bromofluorobenzene	95			%Recov	1/12/00	SW846 8260B
Dibromofluoromethane	107			%Recov	1/12/00	SW846 8260B
Toluene-d8	107			%Recov	1/12/00	SW846 8260B

**- Analytical Report -**

Project Name : TECUMSEH  
Project Number : #1177  
Field ID : MW-9D  
Lab Sample Number : 800079-003  
WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC  
Report Date : 1/13/00  
Collection Date : 1/6/00  
Matrix Type : WATER

**Organic Results**

## EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 1/12/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 2.7	2.7	8.6		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 8.3	8.3	26		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 4.2	4.2	13		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 3.0	3.0	9.6		ug/L		1/12/00	SW846 8260B
Bromoform	< 4.4	4.4	14		ug/L		1/12/00	SW846 8260B
Bromomethane	< 7.0	7.0	22		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 2.9	2.9	9.2		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 3.2	3.2	10		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 2.9	2.9	9.2		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 3.4	3.4	11		ug/L		1/12/00	SW846 8260B
Chloroform	< 3.5	3.5	11		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 2.3	2.3	7.3		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 4.2	4.2	13		ug/L		1/12/00	SW846 8260B
Chloroethane	< 5.4	5.4	17		ug/L		1/12/00	SW846 8260B
Chloromethane	< 6.1	6.1	19		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 3.1	3.1	9.9		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 3.2	3.2	10		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.1	4.1	13		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 3.9	3.9	12		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 5.3	5.3	17		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 3.4	3.4	11		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 3.0	3.0	9.6		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 3.7	3.7	12		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 2.5	2.5	8.0		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	19	4.3	14		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	180	2.8	8.9		ug/L		1/12/00	SW846 8260B
Dichlorodifluoromethane	< 4.7	4.7	15		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	< 7.9	7.9	25		ug/L		1/12/00	SW846 8260B
1,2-Dichloropropane	< 3.5	3.5	11		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	70	3.5	11		ug/L		1/12/00	SW846 8260B
1,3-Dichloropropane	< 4.2	4.2	13		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 3.6	3.6	11		ug/L		1/12/00	SW846 8260B

**- Analytical Report -**

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-9D

Lab Sample Number : 800079-003

WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 8.1	8.1	26	ug/L	1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 3.2	3.2	10	ug/L	1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 4.3	4.3	14	ug/L	1/12/00	SW846 8260B
Diisopropyl ether	< 5.5	5.5	18	ug/L	1/12/00	SW846 8260B
Ethylbenzene	< 3.2	3.2	10	ug/L	1/12/00	SW846 8260B
Fluorotrichloromethane	< 2.8	2.8	8.9	ug/L	1/12/00	SW846 8260B
Hexachlorobutadiene	< 6.2	6.2	20	ug/L	1/12/00	SW846 8260B
Isopropylbenzene	< 2.6	2.6	8.3	ug/L	1/12/00	SW846 8260B
p-Isopropyltoluene	< 2.4	2.4	7.6	ug/L	1/12/00	SW846 8260B
Methylene chloride	< 3.6	3.6	11	ug/L	1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 3.2	3.2	10	ug/L	1/12/00	SW846 8260B
Naphthalene	< 3.5	3.5	11	ug/L	1/12/00	SW846 8260B
n-Propylbenzene	< 7.6	7.6	24	ug/L	1/12/00	SW846 8260B
Styrene	< 1.7	1.7	5.4	ug/L	1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 6.9	6.9	22	ug/L	1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 7.0	7.0	22	ug/L	1/12/00	SW846 8260B
Tetrachloroethene	< 4.3	4.3	14	ug/L	1/12/00	SW846 8260B
Toluene	< 2.7	2.7	8.6	ug/L	1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 4.7	4.7	15	ug/L	1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 2.7	2.7	8.6	ug/L	1/12/00	SW846 8260B
1,1,1-Trichloroethane	170	3.0	9.6	ug/L	1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 6.1	6.1	19	ug/L	1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 2.2	2.2	7.0	ug/L	1/12/00	SW846 8260B
Trichloroethene	910	3.7	12	ug/L	1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 7.5	7.5	24	ug/L	1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 2.7	2.7	8.6	ug/L	1/12/00	SW846 8260B
Vinyl chloride	9.0	2.0	6.4	ug/L	1/12/00	SW846 8260B
Xylenes, -m, -p	< 4.3	4.3	14	ug/L	1/12/00	SW846 8260B
Xylene, -o	< 2.4	2.4	7.6	ug/L	1/12/00	SW846 8260B
4-Bromofluorobenzene	95			%Recov	1/12/00	SW846 8260B
Dibromofluoromethane	109			%Recov	1/12/00	SW846 8260B
Toluene-d8	108			%Recov	1/12/00	SW846 8260B

**- Analytical Report -**

**Project Name : TECUMSEH**

**Project Number : #1177**

**Field ID : MW-12**

**Lab Sample Number : 800079-004**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 1/14/00**

**Collection Date : 1/6/00**

**Matrix Type : WATER**

**Organic Results**

**EPA 8260 VOLATILE LIST- WATER**

**Prep Method: SW846 5030B**

**Prep Date: 1/13/00**

**Analyst: HW**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 2.7	2.7	8.6		ug/L		1/13/00	SW846 8260B
Bromobenzene	< 8.3	8.3	26		ug/L		1/13/00	SW846 8260B
Bromochloromethane	< 4.2	4.2	13		ug/L		1/13/00	SW846 8260B
Bromodichloromethane	< 3.0	3.0	9.6		ug/L		1/13/00	SW846 8260B
Bromoform	< 4.4	4.4	14		ug/L		1/13/00	SW846 8260B
Bromomethane	< 7.0	7.0	22		ug/L		1/13/00	SW846 8260B
s-Butylbenzene	< 2.9	2.9	9.2		ug/L		1/13/00	SW846 8260B
t-Butylbenzene	< 3.2	3.2	10		ug/L		1/13/00	SW846 8260B
n-Butylbenzene	< 2.9	2.9	9.2		ug/L		1/13/00	SW846 8260B
Carbon tetrachloride	< 3.4	3.4	11		ug/L		1/13/00	SW846 8260B
Chloroform	< 3.5	3.5	11		ug/L		1/13/00	SW846 8260B
Chlorobenzene	< 2.3	2.3	7.3		ug/L		1/13/00	SW846 8260B
Chlorodibromomethane	< 4.2	4.2	13		ug/L		1/13/00	SW846 8260B
Chloroethane	< 5.4	5.4	17		ug/L		1/13/00	SW846 8260B
Chloromethane	< 6.1	6.1	19		ug/L		1/13/00	SW846 8260B
2-Chlorotoluene	< 3.1	3.1	9.9		ug/L		1/13/00	SW846 8260B
4-Chlorotoluene	< 3.2	3.2	10		ug/L		1/13/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.1	4.1	13		ug/L		1/13/00	SW846 8260B
1,2-Dibromoethane	< 3.9	3.9	12		ug/L		1/13/00	SW846 8260B
Dibromomethane	< 5.3	5.3	17		ug/L		1/13/00	SW846 8260B
1,3-Dichlorobenzene	< 3.4	3.4	11		ug/L		1/13/00	SW846 8260B
1,4-Dichlorobenzene	< 3.0	3.0	9.6		ug/L		1/13/00	SW846 8260B
1,2-Dichloroethane	< 3.7	3.7	12		ug/L		1/13/00	SW846 8260B
1,2-Dichlorobenzene	< 2.5	2.5	8.0		ug/L		1/13/00	SW846 8260B
1,1-Dichloroethene	< 4.3	4.3	14		ug/L		1/13/00	SW846 8260B
cis-1,2-Dichloroethene	12	2.8	8.9		ug/L		1/13/00	SW846 8260B
Dichlorodifluoromethane	< 4.7	4.7	15		ug/L		1/13/00	SW846 8260B
trans-1,2-Dichloroethene	< 7.9	7.9	25		ug/L		1/13/00	SW846 8260B
1,2-Dichloropropane	< 3.5	3.5	11		ug/L		1/13/00	SW846 8260B
1,1-Dichloroethane	17	3.5	11		ug/L		1/13/00	SW846 8260B
1,3-Dichloropropane	< 4.2	4.2	13		ug/L		1/13/00	SW846 8260B
2,2-Dichloropropane	< 3.6	3.6	11		ug/L		1/13/00	SW846 8260B



**- Analytical Report -**

**Project Name : TECUMSEH**

**Project Number : #1177**

**Field ID : MW-12**

**Lab Sample Number : 800079-004**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 1/14/00**

**Collection Date : 1/6/00**

**Matrix Type : WATER**

1,1-Dichloropropene	< 8.1	8.1	26	ug/L	1/13/00	SW846 8260B
cis-1,3-Dichloropropene	< 3.2	3.2	10	ug/L	1/13/00	SW846 8260B
trans-1,3-Dichloropropene	< 4.3	4.3	14	ug/L	1/13/00	SW846 8260B
Diisopropyl ether	< 5.5	5.5	18	ug/L	1/13/00	SW846 8260B
Ethylbenzene	< 3.2	3.2	10	ug/L	1/13/00	SW846 8260B
Fluorotrichloromethane	< 2.8	2.8	8.9	ug/L	1/13/00	SW846 8260B
Hexachlorobutadiene	< 6.2	6.2	20	ug/L	1/13/00	SW846 8260B
Isopropylbenzene	< 2.6	2.6	8.3	ug/L	1/13/00	SW846 8260B
p-Isopropyltoluene	< 2.4	2.4	7.6	ug/L	1/13/00	SW846 8260B
Methylene chloride	< 3.6	3.6	11	ug/L	1/13/00	SW846 8260B
Methyl-tert-butyl-ether	< 3.2	3.2	10	ug/L	1/13/00	SW846 8260B
Naphthalene	< 3.5	3.5	11	ug/L	1/13/00	SW846 8260B
n-Propylbenzene	< 7.6	7.6	24	ug/L	1/13/00	SW846 8260B
Styrene	< 1.7	1.7	5.4	ug/L	1/13/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 6.9	6.9	22	ug/L	1/13/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 7.0	7.0	22	ug/L	1/13/00	SW846 8260B
Tetrachloroethene	< 4.3	4.3	14	ug/L	1/13/00	SW846 8260B
Toluene	< 2.7	2.7	8.6	ug/L	1/13/00	SW846 8260B
1,2,3-Trichlorobenzene	< 4.7	4.7	15	ug/L	1/13/00	SW846 8260B
1,2,4-Trichlorobenzene	< 2.7	2.7	8.6	ug/L	1/13/00	SW846 8260B
1,1,1-Trichloroethane	110	3.0	9.6	ug/L	1/13/00	SW846 8260B
1,1,2-Trichloroethane	< 6.1	6.1	19	ug/L	1/13/00	SW846 8260B
1,2,4-Trimethylbenzene	< 2.2	2.2	7.0	ug/L	1/13/00	SW846 8260B
Trichloroethene	980	3.7	12	ug/L	1/13/00	SW846 8260B
1,2,3-Trichloropropane	< 7.5	7.5	24	ug/L	1/13/00	SW846 8260B
1,3,5-Trimethylbenzene	< 2.7	2.7	8.6	ug/L	1/13/00	SW846 8260B
Vinyl chloride	< 2.0	2.0	6.4	ug/L	1/13/00	SW846 8260B
Xylenes, -m, -p	< 4.3	4.3	14	ug/L	1/13/00	SW846 8260B
Xylene, -o	< 2.4	2.4	7.6	ug/L	1/13/00	SW846 8260B
4-Bromofluorobenzene	94			%Recov	1/13/00	SW846 8260B
Dibromofluoromethane	109			%Recov	1/13/00	SW846 8260B
Toluene-d8	105			%Recov	1/13/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-12BR

Lab Sample Number : 800079-005

WI DNR LAB ID : 405132750

Client : MORaine ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 1/12/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		1/12/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		1/12/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	10	0.43	1.4		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	180	0.28	0.89		ug/L		1/12/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		1/12/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	80	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-12BR

Lab Sample Number : 800079-005

WI DNR LAB ID : 405132750

Client : MORaine ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L	1/12/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	1/12/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	1/12/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	1/12/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	1/12/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	1/12/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	1/12/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Toluene	3.9	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,1,1-Trichloroethane	110	0.30	0.96	ug/L	1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	1/12/00	SW846 8260B
Trichloroethene	2.5	0.37	1.2	ug/L	1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	1/12/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
4-Bromofluorobenzene	83			%Recov	1/12/00	SW846 8260B
Dibromofluoromethane	84			%Recov	1/12/00	SW846 8260B
Toluene-d8	86			%Recov	1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH  
Project Number : #1177  
Field ID : MW-19 BR-2  
Lab Sample Number : 800079-006  
WI DNR LAB ID : 405132750

Client : MORaine ENVIRONMENTAL INC  
Report Date : 1/13/00  
Collection Date : 1/6/00  
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 1/12/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		1/12/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		1/12/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	1.4	0.43	1.4		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	10	0.28	0.89		ug/L		1/12/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		1/12/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	6.7	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-19 BR-12

Lab Sample Number : 800079-006

WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L	1/12/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	1/12/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	1/12/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	1/12/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	1/12/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	1/12/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	1/12/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	1/12/00	SW846 8260B
Trichloroethene	3.7	0.37	1.2	ug/L	1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
Vinyl chloride	2.0	0.20	0.64	ug/L	1/12/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
4-Bromofluorobenzene	84			%Recov	1/12/00	SW846 8260B
Dibromofluoromethane	85			%Recov	1/12/00	SW846 8260B
Toluene-d8	86			%Recov	1/12/00	SW846 8260B

**- Analytical Report -**

**Project Name :** TECUMSEH

**Project Number :** #1177

**Field ID :** MW-19 BR-2

**Lab Sample Number :** 800079-007

**WI DNR LAB ID :** 405132750

**Client :** MORaine ENVIRONMENTAL INC

**Report Date :** 1/14/00

**Collection Date :** 1/6/00

**Matrix Type :** WATER

**Organic Results**

**EPA 8260 VOLATILE LIST- WATER**

**Prep Method:** SW846 5030B

**Prep Date:** 1/13/00

**Analyst:** HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.54	0.54	1.7		ug/L		1/13/00	SW846 8260B
Bromobenzene	< 1.7	1.7	5.4		ug/L		1/13/00	SW846 8260B
Bromochloromethane	< 0.84	0.84	2.7		ug/L		1/13/00	SW846 8260B
Bromodichloromethane	< 0.60	0.60	1.9		ug/L		1/13/00	SW846 8260B
Bromoform	< 0.88	0.88	2.8		ug/L		1/13/00	SW846 8260B
Bromomethane	< 1.4	1.4	4.5		ug/L		1/13/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		1/13/00	SW846 8260B
t-Butylbenzene	< 0.64	0.64	2.0		ug/L		1/13/00	SW846 8260B
n-Butylbenzene	< 0.58	0.58	1.8		ug/L		1/13/00	SW846 8260B
Carbon tetrachloride	< 0.68	0.68	2.2		ug/L		1/13/00	SW846 8260B
Chloroform	< 0.70	0.70	2.2		ug/L		1/13/00	SW846 8260B
Chlorobenzene	< 0.46	0.46	1.5		ug/L		1/13/00	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		1/13/00	SW846 8260B
Chloroethane	< 1.1	1.1	3.5		ug/L		1/13/00	SW846 8260B
Chloromethane	< 1.2	1.2	3.8		ug/L		1/13/00	SW846 8260B
2-Chlorotoluene	< 0.62	0.62	2.0		ug/L		1/13/00	SW846 8260B
4-Chlorotoluene	< 0.64	0.64	2.0		ug/L		1/13/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.82	0.82	2.6		ug/L		1/13/00	SW846 8260B
1,2-Dibromoethane	< 0.78	0.78	2.5		ug/L		1/13/00	SW846 8260B
Dibromomethane	< 1.1	1.1	3.5		ug/L		1/13/00	SW846 8260B
1,3-Dichlorobenzene	< 0.68	0.68	2.2		ug/L		1/13/00	SW846 8260B
1,4-Dichlorobenzene	< 0.60	0.60	1.9		ug/L		1/13/00	SW846 8260B
1,2-Dichloroethane	< 0.74	0.74	2.4		ug/L		1/13/00	SW846 8260B
1,2-Dichlorobenzene	< 0.50	0.50	1.6		ug/L		1/13/00	SW846 8260B
1,1-Dichloroethene	15	0.86	2.7		ug/L		1/13/00	SW846 8260B
cis-1,2-Dichloroethene	48	0.56	1.8		ug/L		1/13/00	SW846 8260B
Dichlorodifluoromethane	< 0.94	0.94	3.0		ug/L		1/13/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.6	1.6	5.1		ug/L		1/13/00	SW846 8260B
1,2-Dichloropropane	< 0.70	0.70	2.2		ug/L		1/13/00	SW846 8260B
1,1-Dichloroethane	100	0.70	2.2		ug/L		1/13/00	SW846 8260B
1,3-Dichloropropane	< 0.84	0.84	2.7		ug/L		1/13/00	SW846 8260B
2,2-Dichloropropane	< 0.72	0.72	2.3		ug/L		1/13/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-19 BR-2

Lab Sample Number : 800079-007

WI DNR LAB ID : 405132750

Client : MORaine ENVIRONMENTAL INC

Report Date : 1/14/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 1.6	1.6	5.1	ug/L	1/13/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.64	0.64	2.0	ug/L	1/13/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.86	0.86	2.7	ug/L	1/13/00	SW846 8260B
Diisopropyl ether	< 1.1	1.1	3.5	ug/L	1/13/00	SW846 8260B
Ethylbenzene	< 0.64	0.64	2.0	ug/L	1/13/00	SW846 8260B
Fluorotrichloromethane	< 0.56	0.56	1.8	ug/L	1/13/00	SW846 8260B
Hexachlorobutadiene	< 1.2	1.2	3.8	ug/L	1/13/00	SW846 8260B
Isopropylbenzene	< 0.52	0.52	1.7	ug/L	1/13/00	SW846 8260B
p-Isopropyltoluene	< 0.48	0.48	1.5	ug/L	1/13/00	SW846 8260B
Methylene chloride	< 0.72	0.72	2.3	ug/L	1/13/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.64	0.64	2.0	ug/L	1/13/00	SW846 8260B
Naphthalene	< 0.70	0.70	2.2	ug/L	1/13/00	SW846 8260B
n-Propylbenzene	< 1.5	1.5	4.8	ug/L	1/13/00	SW846 8260B
Styrene	< 0.34	0.34	1.1	ug/L	1/13/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.4	1.4	4.5	ug/L	1/13/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 1.4	1.4	4.5	ug/L	1/13/00	SW846 8260B
Tetrachloroethene	< 0.86	0.86	2.7	ug/L	1/13/00	SW846 8260B
Toluene	< 0.54	0.54	1.7	ug/L	1/13/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.94	0.94	3.0	ug/L	1/13/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.54	0.54	1.7	ug/L	1/13/00	SW846 8260B
1,1,1-Trichloroethane	3.4	0.60	1.9	ug/L	1/13/00	SW846 8260B
1,1,2-Trichloroethane	< 1.2	1.2	3.8	ug/L	1/13/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.44	0.44	1.4	ug/L	1/13/00	SW846 8260B
Trichloroethene	320	0.74	2.4	ug/L	1/13/00	SW846 8260B
1,2,3-Trichloropropane	< 1.5	1.5	4.8	ug/L	1/13/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.54	0.54	1.7	ug/L	1/13/00	SW846 8260B
Vinyl chloride	2.9	0.40	1.3	ug/L	1/13/00	SW846 8260B
Xylenes, -m, -p	< 0.86	0.86	2.7	ug/L	1/13/00	SW846 8260B
Xylene, -o	< 0.48	0.48	1.5	ug/L	1/13/00	SW846 8260B
4-Bromofluorobenzene	97			%Recov	1/13/00	SW846 8260B
Dibromofluoromethane	111			%Recov	1/13/00	SW846 8260B
Toluene-d8	106			%Recov	1/13/00	SW846 8260B



**- Analytical Report -**

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-21 BR-1

Lab Sample Number : 800079-008

WI DNR LAB ID : 405132750

Client : MORaine ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

**Organic Results**

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 1/12/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		1/12/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		1/12/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		1/12/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		1/12/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-21 BR-1

Lab Sample Number : 800079-008

WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L		1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L		1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L		1/12/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L		1/12/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L		1/12/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L		1/12/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L		1/12/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L		1/12/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L		1/12/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L		1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L		1/12/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L		1/12/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L		1/12/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L		1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L		1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L		1/12/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L		1/12/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L		1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L		1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L		1/12/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L		1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L		1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L		1/12/00	SW846 8260B
Trichloroethene	< 0.37	0.37	1.2	ug/L		1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L		1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L		1/12/00	SW846 8260B
Vinyl chloride	0.31	0.20	0.64	ug/L	Q	1/12/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L		1/12/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L		1/12/00	SW846 8260B
4-Bromofluorobenzene	85			%Recov		1/12/00	SW846 8260B
Dibromofluoromethane	84			%Recov		1/12/00	SW846 8260B
Toluene-d8	85			%Recov		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH  
Project Number : #1177  
Field ID : MW-21 BR-2  
Lab Sample Number : 800079-009  
WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC  
Report Date : 1/13/00  
Collection Date : 1/6/00  
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B Prep Date: 1/12/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		1/12/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		1/12/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		1/12/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		1/12/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-21 BR-2

Lab Sample Number : 800079-009

WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L	1/12/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	1/12/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	1/12/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	1/12/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	1/12/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	1/12/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	1/12/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	1/12/00	SW846 8260B
Trichloroethene	< 0.37	0.37	1.2	ug/L	1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	1/12/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
4-Bromofluorobenzene	95			%Recov	1/12/00	SW846 8260B
Dibromofluoromethane	111			%Recov	1/12/00	SW846 8260B
Toluene-d8	106			%Recov	1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH  
Project Number : #1177  
Field ID : MW-22 BR  
Lab Sample Number : 800079-010  
WI DNR LAB ID : 405132750

Client : MORAIN ENVIRONMENTAL INC  
Report Date : 1/13/00  
Collection Date : 1/6/00  
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 1/12/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		1/12/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		1/12/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		1/12/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		1/12/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		1/12/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		1/12/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		1/12/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		1/12/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		1/12/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		1/12/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		1/12/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		1/12/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		1/12/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		1/12/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		1/12/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		1/12/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		1/12/00	SW846 8260B
cis-1,2-Dichloroethene	6.8	0.28	0.89		ug/L		1/12/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		1/12/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		1/12/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		1/12/00	SW846 8260B
1,1-Dichloroethane	0.98	0.35	1.1		ug/L	Q	1/12/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/12/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		1/12/00	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH

Project Number : #1177

Field ID : MW-22 BR

Lab Sample Number : 800079-010

WI DNR LAB ID : 405132750

Client : MORaine ENVIRONMENTAL INC

Report Date : 1/13/00

Collection Date : 1/6/00

Matrix Type : WATER

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	1/12/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L	1/12/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	1/12/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	1/12/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	1/12/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	1/12/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	1/12/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	1/12/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	1/12/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	1/12/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	1/12/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	1/12/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	1/12/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	1/12/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	1/12/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	1/12/00	SW846 8260B
Trichloroethene	33	0.37	1.2	ug/L	1/12/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	1/12/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	1/12/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	1/12/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	1/12/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	1/12/00	SW846 8260B
4-Bromofluorobenzene	96			%Recov	1/12/00	SW846 8260B
Dibromofluoromethane	110			%Recov	1/12/00	SW846 8260B
Toluene-d8	108			%Recov	1/12/00	SW846 8260B

(Please Print Legibly)

Company Name: MEI  
 Branch or Location: Orinflow  
 Project Contact: Steve Benton  
 Telephone: 377-9060  
 Project Number: # 1177  
 Project Name: Tecumsho  
 Project State: Orinflow  
 Sampled By (Print): R. Durkee



1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436 • 1-800-736-2436  
 FAX 920-469-8827

525 Science Drive  
 Madison, WI 53711  
 608-232-3300 • 1-888-536-2436  
 FAX: 608-233-0502

1423 N. 8th Street, Suite 122  
 Superior, WI 54880  
 715-392-5844 • 1-800-837-8238  
 FAX 715-392-5843

### CHAIN OF CUSTODY

45500

Page 1 of 1

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH

FILTERED? (YES/NO) NO  
 PRESERVATION (CODE)\* B

P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_

Mail Report To: Steve Benton

Company: MEI

Address: 1234 12th Ave

Orinflow Inc

Invoice To: \_\_\_\_\_

Company: \_\_\_\_\_

Address: Same As Above

Mail Invoice To: \_\_\_\_\_

#### Data Package Options (please circle if requested)

QC Summary      Surcharge      Site-Specific QC Required?  
 EnChem Level II    Std. Delivery    Yes    No  
 EnChem Level III    10% (min. \$50)    (If yes, indicate QC sample and submit triplicate volume.)  
 EnChem Level IV    25% (min. \$100)

ANALYSES REQUESTED  
VOL

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	COMMENTS	TOTAL BOTTLES (Lab Use Only)
		DATE	TIME			
P001	PW-5	2/29/01	AM	W		3 bottles
002	PW-30		AM	W		
003	PW-38		AM	W		
	no triplicate					
	16-3/30					

<b>Turnaround Time Requested (TAT)</b> (circle): (Std (10 Bus. Days) <u>Rush</u> ) (Rush TAT subject to approval/surcharge) Quick Turn Number: _____ Date Needed: _____ Transmit Rush Results by (circle): Phone    Fax Phone #: _____ Fax #: _____ <b>Samples on HOLD are subject to special pricing and release of liability</b>	<b>Std. TAT Surcharge</b> 1 day 3.0x 2 day 2.0x 3 day 1.5x 4 day 1.4x 5 day 1.3x <b>Matrix Codes</b> W=Water S=Soil A=Air C=Charcoal B=Biota Sl=Sludge	Relinquished By: <u>R. Durkee</u> Date/Time: <u>3/1/00 7:30 AM</u>	Received By: <u>Durkee</u> Date/Time: <u>3/3/00 9:30</u>	En-Chem Project No. <u>800896</u>
		Relinquished By: <u>Durkee</u> Date/Time: <u>3/3/00 8:05</u>	Received By: <u>Durkee</u> Date/Time: <u>3/3/00 8:05</u>	Sample Receipt Temp. <u>POE</u>
		Relinquished By: _____      Date/Time: _____	Received By: _____      Date/Time: _____	Sample Receipt pH (Vol/Metals)
		Relinquished By: _____      Date/Time: _____	Received By: _____      Date/Time: _____	Custody Seal
		Relinquished By: _____      Date/Time: _____	Received By: _____      Date/Time: _____	





1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

**- Analytical Report -**

Project Name : TECUMSHE

Project Number : #1177

Client: MORaine ENVIRONMENTAL INC

WI DNR LAB ID : 405132750

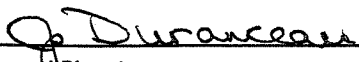
Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
800896-001	PW-5	2/28/00			
800896-002	PW-30	2/28/00			
800896-003	PW-38	2/28/00			

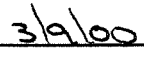
Please visit our Internet homepage at: [www.encheminc.com](http://www.encheminc.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

  
Approval Signature

  
Date



**- Analytical Report -**

**Project Name : TECUMSHE**

**Project Number : #1177**

**Field ID : PW-5**

**Lab Sample Number : 800896-001**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 3/9/00**

**Collection Date : 2/28/00**

**Matrix Type : WATER**

**Organic Results**

**EPA 8260 VOLATILE LIST- WATER**

**Prep Method: SW846 5030B**

**Prep Date: 3/8/00**

**Analyst: JJB**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		3/8/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		3/8/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		3/8/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		3/8/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		3/8/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		3/8/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		3/8/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		3/8/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		3/8/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		3/8/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		3/8/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		3/8/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		3/8/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		3/8/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		3/8/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		3/8/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		3/8/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		3/8/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		3/8/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		3/8/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		3/8/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		3/8/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		3/8/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		3/8/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		3/8/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		3/8/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		3/8/00	SW846 8260B
1,1-Dichloroethane	1.1	0.35	1.1		ug/L		3/8/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		3/8/00	SW846 8260B

**- Analytical Report -**

**Project Name : TECUMSHE**

**Project Number : #1177**

**Field ID : PW-5**

**Lab Sample Number : 800896-001**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 3/9/00**

**Collection Date : 2/28/00**

**Matrix Type : WATER**

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	3/8/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L	3/8/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	3/8/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	3/8/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	3/8/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	3/8/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	3/8/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	3/8/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	3/8/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	3/8/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	3/8/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	3/8/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	3/8/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
1,1,1-Trichloroethane	1.1	0.30	0.96	ug/L	3/8/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	3/8/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	3/8/00	SW846 8260B
Trichloroethene	< 0.37	0.37	1.2	ug/L	3/8/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	3/8/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	3/8/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	3/8/00	SW846 8260B
4-Bromofluorobenzene	85			%Recov	3/8/00	SW846 8260B
Dibromofluoromethane	90			%Recov	3/8/00	SW846 8260B
Toluene-d8	90			%Recov	3/8/00	SW846 8260B

**- Analytical Report -**

**Project Name : TECUMSHE**

**Project Number : #1177**

**Field ID : PW-30**

**Lab Sample Number : 800896-002**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 3/9/00**

**Collection Date : 2/28/00**

**Matrix Type : WATER**

**Organic Results**

**EPA 8260 VOLATILE LIST- WATER**

**Prep Method: SW846 5030B**

**Prep Date: 3/8/00**

**Analyst: JJB**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		3/8/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		3/8/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		3/8/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		3/8/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		3/8/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		3/8/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		3/8/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		3/8/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		3/8/00	SW846 8260B
Chloroform	1.7	0.35	1.1		ug/L		3/8/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		3/8/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		3/8/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		3/8/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		3/8/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		3/8/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		3/8/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		3/8/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		3/8/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		3/8/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		3/8/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		3/8/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		3/8/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		3/8/00	SW846 8260B
cis-1,2-Dichloroethene	3.2	0.28	0.89		ug/L		3/8/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		3/8/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		3/8/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		3/8/00	SW846 8260B
1,1-Dichloroethane	3.2	0.35	1.1		ug/L		3/8/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		3/8/00	SW846 8260B

**- Analytical Report -**

**Project Name : TECUMSHE**

**Project Number : #1177**

**Field ID : PW-30**

**Lab Sample Number : 800896-002**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 3/9/00**

**Collection Date : 2/28/00**

**Matrix Type : WATER**

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	3/8/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L	3/8/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	3/8/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	3/8/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	3/8/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	3/8/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	3/8/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	3/8/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	3/8/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	3/8/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	3/8/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	3/8/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	3/8/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
1,1,1-Trichloroethane	1.4	0.30	0.96	ug/L	3/8/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	3/8/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	3/8/00	SW846 8260B
Trichloroethene	4.2	0.37	1.2	ug/L	3/8/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	3/8/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	3/8/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	3/8/00	SW846 8260B
4-Bromofluorobenzene	84			%Recov	3/8/00	SW846 8260B
Dibromofluoromethane	90			%Recov	3/8/00	SW846 8260B
Toluene-d8	92			%Recov	3/8/00	SW846 8260B

**- Analytical Report -**

**Project Name : TECUMSHE**

**Project Number : #1177**

**Field ID : PW-38**

**Lab Sample Number : 800896-003**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 3/9/00**

**Collection Date : 2/28/00**

**Matrix Type : WATER**

**Organic Results**

**EPA 8260 VOLATILE LIST- WATER**

**Prep Method: SW846 5030B**

**Prep Date: 3/8/00**

**Analyst: JJB**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.27	0.27	0.86		ug/L		3/8/00	SW846 8260B
Bromobenzene	< 0.83	0.83	2.6		ug/L		3/8/00	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		3/8/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		3/8/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		3/8/00	SW846 8260B
s-Butylbenzene	< 0.29	0.29	0.92		ug/L		3/8/00	SW846 8260B
t-Butylbenzene	< 0.32	0.32	1.0		ug/L		3/8/00	SW846 8260B
n-Butylbenzene	< 0.29	0.29	0.92		ug/L		3/8/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		3/8/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		3/8/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		3/8/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		3/8/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		3/8/00	SW846 8260B
2-Chlorotoluene	< 0.31	0.31	0.99		ug/L		3/8/00	SW846 8260B
4-Chlorotoluene	< 0.32	0.32	1.0		ug/L		3/8/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		3/8/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		3/8/00	SW846 8260B
Dibromomethane	< 0.53	0.53	1.7		ug/L		3/8/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		3/8/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		3/8/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		3/8/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		3/8/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		3/8/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		3/8/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		3/8/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		3/8/00	SW846 8260B
1,2-Dichloropropane	< 0.35	0.35	1.1		ug/L		3/8/00	SW846 8260B
1,1-Dichloroethane	2.8	0.35	1.1		ug/L		3/8/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		3/8/00	SW846 8260B
2,2-Dichloropropane	< 0.36	0.36	1.1		ug/L		3/8/00	SW846 8260B



**- Analytical Report -**

**Project Name : TECUMSHE**

**Project Number : #1177**

**Field ID : PW-38**

**Lab Sample Number : 800896-003**

**WI DNR LAB ID : 405132750**

**Client : MORaine ENVIRONMENTAL INC**

**Report Date : 3/9/00**

**Collection Date : 2/28/00**

**Matrix Type : WATER**

1,1-Dichloropropene	< 0.81	0.81	2.6	ug/L	3/8/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Diisopropyl ether	< 0.55	0.55	1.8	ug/L	3/8/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	3/8/00	SW846 8260B
Hexachlorobutadiene	< 0.62	0.62	2.0	ug/L	3/8/00	SW846 8260B
Isopropylbenzene	< 0.26	0.26	0.83	ug/L	3/8/00	SW846 8260B
p-Isopropyltoluene	< 0.24	0.24	0.76	ug/L	3/8/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	3/8/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0	ug/L	3/8/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1	ug/L	3/8/00	SW846 8260B
n-Propylbenzene	< 0.76	0.76	2.4	ug/L	3/8/00	SW846 8260B
Styrene	< 0.17	0.17	0.54	ug/L	3/8/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.69	0.69	2.2	ug/L	3/8/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.70	0.70	2.2	ug/L	3/8/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.47	0.47	1.5	ug/L	3/8/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
1,1,1-Trichloroethane	1.6	0.30	0.96	ug/L	3/8/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	3/8/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.22	0.22	0.70	ug/L	3/8/00	SW846 8260B
Trichloroethene	2.4	0.37	1.2	ug/L	3/8/00	SW846 8260B
1,2,3-Trichloropropane	< 0.75	0.75	2.4	ug/L	3/8/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.27	0.27	0.86	ug/L	3/8/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	3/8/00	SW846 8260B
Xylenes, -m, -p	< 0.43	0.43	1.4	ug/L	3/8/00	SW846 8260B
Xylene, -o	< 0.24	0.24	0.76	ug/L	3/8/00	SW846 8260B
4-Bromofluorobenzene	83			%Recov	3/8/00	SW846 8260B
Dibromofluoromethane	89			%Recov	3/8/00	SW846 8260B
Toluene-d8	91			%Recov	3/8/00	SW846 8260B

**ATTACHMENT B**

**PREVIOUS ANALYTICAL SUMMARY TABLES  
(MEI and RMT, INC.)**

**TABLE 1  
TECUMSEH MONITORING - GRAFTON FACILITY  
GROUNDWATER LAB RESULTS (detected compounds only)**

Well Name	MW-3 BR (2)	MW-3-D	MW-9	MW-12	MW-12 BR (1)	MW-18 BR (1)	MW-18 BR (2)	MW-19 BR (1)	MW-19 BR (2)	MW-20 BR (1)	MW-20 BR (2)	MW-21 BR (1)	MW-21 BR (2)	MW-22 BR	Raess Residence PW-5	Wendtlund Residence PW-38	Heiser Residence PW-30	NR140 ES	NR140 PAL
Chloroform	<0.35	<0.35	<0.35	<1.7	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	1.4	6.0	0.6
Chloroethane	0.56Q	<0.54	<0.54	<2.7	<0.54	<0.54	<0.54	<0.54	1.8	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	400	80
1,2-Dichloroethane	<b>0.60Q</b>	<0.37	<0.37	<1.8	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	5.0	0.5
1,1-Dichloroethene	<0.43	<0.43	<b>14</b>	<2.1	<b>21</b>	<b>0.99Q</b>	<b>6.9</b>	<b>6.2</b>	<b>0.89Q</b>	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	7.0	0.7
cis-1,2-Dichloroethene	<0.28	0.44Q	<b>30</b>	3.6Q	<b>190</b>	4.0	<b>25</b>	<b>27</b>	4.3	<0.28	<0.28	<0.28	<0.28	2.3	<0.28	<0.28	1.0	70	7.0
1,1-Dichloroethane	66	<0.35	78	2.3Q	<b>100</b>	8.8	41	60	11	<0.35	<0.35	<0.35	<0.35	0.74Q	<0.35	<0.35	1.0Q	850	85
Diisopropyl Ether	<0.55	6.6	<0.55	<2.8	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	NSE	NSE
Isopropylbenzene	<0.26	<0.26	<0.26	<1.3	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	NSE	NSE
Methylene Chloride	<0.36	<0.36	<0.36	<b>2.2</b>	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	5.0	0.5
n-Propylbenzene	<0.76	<0.76	<0.76	<3.8	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	NSE	NSE
Methyl-tert-butyl-ether	<0.32	<0.32	<0.32	<1.6	<0.32	0.50Q	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	60	12
Toluene	<0.27	<0.27	0.67Q	<1.4	3.5	<0.27	<0.27	<0.27	0.29Q	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	343	69
1,1,1-Trichloroethane	1.1	<0.30	41	36	<b>190</b>	4.4	30	1.4	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.5	0.63Q	200	40
Trichloroethene	<0.37	<b>6.8</b>	<b>91</b>	<b>660</b>	<b>70</b>	<b>8.2</b>	<b>46</b>	<b>150</b>	<b>11</b>	<0.37	<0.37	<0.37	<0.37	<b>13</b>	<0.37	<b>1.6</b>	<b>1.7</b>	5.0	0.5
Vinyl Chloride	<b>0.29Q</b>	<0.20	<b>1.1</b>	<1.0	<b>0.26Q</b>	<0.20	<0.20	<b>1.1</b>	<b>0.7</b>	<b>0.38Q</b>	<b>0.52Q</b>	<0.20	<b>0.25Q</b>	<0.20	<0.20	<0.20	<0.20	0.2	0.02

**Notes:**

mg/L = milligrams per liter = parts per million (ppm)  
 ug/L = micrograms per liter = parts per billion (ppb)  
 NA = Not Analyzed; Q = parameter detected below quantitative limit (qualified results)  
 NSE = No Standard Established; ND = No Detect; NSC = No Sample Collected  
 ES = NR140.10 Enforcement Standard  
 PAL = NR140.10 Preventative Action Limit  
 Highlighted and Bold results indicate concentrations exceeding WDNR NR140 ES  
 Bold results indicate concentrations exceeding WDNR NR140 PAL

TABLE 18

SUMMARY OF VOCs DETECTED IN ON-SITE GROUNDWATER ALONG THE EASTERN PROPERTY LINE (µg/L)<sup>1</sup>  
TECUMSEH PRODUCTS COMPANY

Well I.D.	Sample Date	1,1-DCE	1,1-DCA	cis-1,2-DCE	trans-1,2-DCE	1,1,1-TCA	TCE	Vinyl Chloride	Toluene	Ethyl-benzene	Xylenes (total)	Naphthalene	Ethene	Ethane	Methane	Other Parameters Detected
Eastern Property Line																
MW-3	8-25-94	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	39	< 1.0	< 1.0	< 1.0	< 3.0	< 5.0	NA	NA	NA	No
	6-4-96	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10	< 1.0	< 1.0	< 1.0	< 3.0	< 5.0	NA	NA	NA	No
MW-3D	8-25-94	24	7.2	6.8	< 5.0	21	88	6.1	< 5.0	54	18	< 25	NA	NA	NA	Yes <sup>2</sup>
	12-14-94	12	9.8	< 5.0	< 5.0	28	27	5.8	< 5.0	< 5.0	< 15	< 25	NA	NA	NA	Yes <sup>2</sup>
	6-5-96	< 10	130	20	< 10	26	15	17	< 10	< 10	< 30	< 50	NA	NA	NA	No
	12-4-96	6.7	22	8.0	< 1.0	< 1.0	55	6.9	< 1.0	< 1.0	< 2.0	< 2.0	0.3	10.9	< 6.0	No
MW-3BR1	12-14-94	13	65	45	< 5.0	120	88	< 5.0	< 5.0	< 5.0	< 15	< 25	NA	NA	NA	No
	8-30-95	< 5.0	25	26	< 5.0	45	42	< 5.0	< 5.0	< 5.0	< 15	< 25	NA	NA	NA	No
	6-11-96 <sup>3</sup>	13	47 D	56 D	< 1.0	75 D	100 D	3.0	1.6	< 1.0	< 3.0	< 5.0	NA	NA	NA	Yes <sup>2</sup>
	6-11-96 <sup>3</sup>	14	49 D	58 D	< 1.0	78 D	110 D	2.4	< 1.0	< 1.0	< 3.0	< 5.0	NA	NA	NA	No
MW-3BR2	12-14-94	56	190	20	< 10	140	310	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
	8-30-95	< 10	48	< 10	< 10	29	100	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
	6-11-96	32	130 D	37	< 1.0	98 D	220 D	2.0	2.0	< 1.0	< 3.0	< 5.0	NA	NA	NA	No
	12-5-96 <sup>3</sup>	29	130	48	< 5.0	< 5.0	220	< 10	< 5.0	< 5.0	< 10	< 10	0.4	< 0.1	19.4	No
	12-5-96 <sup>3</sup>	27	130	47	0.8 Q	82	210	1.3 Q	< 1.0	< 1.0	< 2.0	< 2.0	NA	NA	NA	No
MW-3BR3	12-14-94	8.6	39	25	< 5.0	28	270	< 5.0	< 5.0	< 5.0	< 15	< 25	NA	NA	NA	No
	8-30-95	< 5.0	31	15	< 5.0	16	170	< 5.0	< 5.0	< 5.0	< 15	< 25	NA	NA	NA	No
	6-11-96	33	58 D	19	< 1.0	110 D	250 D	1.3	2.2	< 1.0	< 3.0	< 5.0	NA	NA	NA	No
MW-9	8-24-94	< 100	100	1,500	< 100	530	3,000	< 100	< 100	< 100	< 300	< 500	NA	NA	NA	No
	6-4-96	180	190	1,200	< 100	1,100	1,900	< 100	< 100	< 100	< 300	< 500	NA	NA	NA	No
	12-4-96	51 Q	< 100	2,700	< 100	1,100	2,800	< 200	< 100	< 100	< 200	< 200	< 0.1	< 0.1	< 6.0	No
MW-9D	8-24-94	< 100	290	330	< 100	700	1,200	< 100	< 100	< 100	< 300	< 500	NA	NA	NA	No
	12-14-94	< 50	94	680	< 50	350	1,400	< 50	< 50	< 50	< 150	< 250	NA	NA	NA	No
MW-12	6-5-96	230	630	400	< 100	1,700	1,200	< 100	< 100	< 100	< 300	< 500	NA	NA	NA	No
	12-14-94	61	150	< 50	< 50	490	3,000	< 50	< 50	< 50	< 150	< 250	NA	NA	NA	No
	6-4-96 <sup>3</sup>	< 20	< 20	< 20	< 20	77	590	< 20	< 20	< 20	< 60	< 100	NA	NA	NA	No
	6-4-96 <sup>3</sup>	< 50	< 50	< 50	< 50	100	680	< 50	< 50	< 50	< 150	< 250	NA	NA	NA	No
MW-12BR	12-4-96	89	230 E	28	0.5 Q	650 E	1,600	1.0 Q	< 1.0	< 1.0	< 2.0	< 2.0	0.5	< 0.1	< 6.0	No
	12-14-94	35	180	< 10	< 10	580	84	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
	8-30-95	180	620 D	75	< 10	1,900 D	320	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
MW-13BR1	6-4-96	51	130	< 20	< 20	400	480	< 20	< 20	< 20	< 60	< 100	NA	NA	NA	No
	12-14-94	70	190	22	< 10	530	270	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
	8-30-95	< 10	110	< 10	< 10	210	80	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
MW-13BR2	6-11-96	130 D	< 1.0	70 D	< 1.0	1,100 D	250 D	3.5	1.7	< 1.0	< 3.0	< 5.0	NA	NA	NA	Yes <sup>2</sup>
	12-14-94	53	130	33	< 10	410	350	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
	8-30-95	< 10	< 10	52	< 10	< 10	320	< 10	< 10	< 10	< 30	< 50	NA	NA	NA	No
	6-10-96 <sup>3</sup>	27	68 D	100 D	2.6	240 D	700 D	5.6	1.8	< 1.0	< 3.0	< 5.0	NA	NA	NA	Yes <sup>2</sup>
	6-10-96 <sup>3</sup>	31	72 D	110 D	3.0	250 D	700 D	6.0	1.8	< 1.0	< 3.0	< 5.0	NA	NA	NA	Yes <sup>2</sup>
MW-13BR3	12-5-96	52	130	120	< 10	470	710	< 20	< 10	< 10	< 20	< 20	1.2	0.1	125.9	No
	12-14-94	78	210	21	< 20	620	300	< 20	< 20	< 20	< 60	< 100	NA	NA	NA	No
	8-30-95	< 20	< 20	42	< 20	< 20	440	< 20	< 20	< 20	< 60	< 100	NA	NA	NA	No
	6-10-96 <sup>3</sup>	< 20	< 20	66	< 20	< 20	560	< 20	< 20	< 20	< 60	< 100	NA	NA	NA	No
NR 140 Enforcement Standard		7	850	70	100	200	5	0.2	343	700	620	40	NS	NS	NS	--
	NR 140 Preventive Action Limit	0.7	85	7	20	40	0.5	0.02	68.6	140	124	8	NS	NS	NS	--

NOTES:  
<sup>1</sup> This table includes only those compounds listed in NR 140 that were detected in at least one sample.  
 Other compounds detected in the on-site groundwater include the following:  
 Well MW-3D: 1,2,4-trimethylbenzene at 30 µg/L (8-25-94) and 5.9 µg/L (12-14-94)  
 Well MW-3BR1: chloroethane at 1.2 µg/L (6-11-96)  
 Well MW-13BR2: dichlorodifluoromethane at 3.8/3.8 µg/L (6-11-96)  
<sup>2</sup> Duplicate samples  
<sup>3</sup> BOLD values indicate constituents that exceed NR 140 Preventive Action Limits.  
 D Analyte value from diluted analysis.  
 E Estimated concentration; analyte concentration exceeds calibration range.  
 O Qualitative mass spectral evidence of analyte present; concentration is less than the reporting limit.  
 DCE dichloroethene  
 DCA dichloroethane  
 TCA trichloroethane  
 TCE trichloroethene  
 NA Not analyzed  
 NS No standard or limit specified by NR 140

TABLE 21

SUMMARY OF VOCs DETECTED IN DOWNGRADIENT GROUNDWATER (µg/L)<sup>1</sup>  
TECUMSEH PRODUCTS COMPANY

Well I.D.	Sample Date	Vinyl Chloride	1,1-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene	Toluene	Ethene	Ethane	Methane
MW-14BR	12-14-94	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
	6-5-96	< 2.0	< 1.0	< 1.0	< 1.0	1.5	1.3	< 1.0	NA	NA	NA
MW-15BR1	12-14-94	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	NA	NA	NA
	6-10-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
MW-15BR2	12-14-94	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	NA	NA	NA
	6-10-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
MW-18BR1	8-30-95	< 2.0	< 1.0	< 1.0	< 1.0	1.5	1.4	< 1.0	NA	NA	NA
	6-10-96	< 2.0	1.7	< 1.0	< 1.0	2.5	2.7	< 1.0	NA	NA	NA
	12-4-96	< 2.0	1.3	8.4	4.4	8.4	10	< 1.0	< 0.1	< 0.1	6.6
MW-18BR2	8-30-95	< 2.0	< 1.0	4.7	2.9	5.9	6.3	< 1.0	NA	5.9	NA
	6-10-96	< 2.0	5.7	25	18	33	33	< 1.0	NA	NA	NA
	12-4-96	< 2.0	5.0	30	17 <sup>2</sup>	35	34	< 1.0	0.2	< 0.1	12.2
MW-19BR1	8-30-95	< 20	< 10	130	36	16	190	< 10	NA	NA	NA
	6-10-96	< 20	< 20	150	54	< 20	380	< 20	NA	NA	NA
	12-4-96	3.6 Q	20	150	70	< 5.0	380	< 5.0	1.2	< 0.1	23.7
MW-19BR2	8-30-95	< 20	< 10	110	22	< 10	220	< 10	NA	NA	NA
	6-10-96	< 2	2.5	18	5.4	2.2	30	< 1.0	NA	NA	NA
	12-4-96	< 2.0	0.8 Q	6.3	1.5	< 1.0	15	< 1.0	0.8	< 0.1	104
MW-20BR1	8-30-95	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
	6-10-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
	12-3-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 0.1	22.1
MW-20BR2	8-30-95	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	NA	NA	NA
	6-10-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.8	NA	NA	NA
	12-3-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.9	0.2	3,490
MW-21BR1	6-10-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.6	NA	NA	NA
	12-3-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 0.1	< 6.0
MW-21BR2	6-10-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6	NA	NA	NA
	12-3-96	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 0.1	< 6.0
NR 140 Enforcement Standard		0.2	7	850	70	200	5	343	NS	NS	NS
NR 140 Preventive Action Limit		0.02	0.7	85	7	40	0.5	68.6	NS	NS	NS

## NOTES:

- <sup>1</sup> This table includes only those compounds that were detected in at least one sample.  
<sup>2</sup> Qualitative mass spectral evidence of trans-1,2-dichloroethene at 0.7 µg/L; however, concentration is less than the reporting limit.  
**BOLD** Bolded values indicate constituents that exceed NR 140 Preventive Action Limits.  
 NA Not analyzed.  
 NS No standard or limit specified by NR 140.  
 Q Qualitative mass spectral evidence of analyte present: concentration is less than the reporting limit.

Project Number: 3084.18  
 Sample Collection Date: December 1, 1994  
 Chain-of-Custody Number: 053741

TABLE 23

LABORATORY RESULTS FOR SAMPLING  
 OF RESIDENTIAL WELLS IN GRAFTON, WISCONSIN (µg/L)  
 TECUMSEH PRODUCTS COMPANY

Parameter	Date	Station I.D. (name of resident)								PAL	ES
		Trip Blank <sup>1</sup>	PW-36 (Groth)	PW-5 (Raess)	PW-38 (Lauer)	PW-101 (Thiele)	PW-102 (Thiele)	PW-30 (Heiser)	Storage Blank		
Acetone	12/1	7.2	--	--	--	--	12	--	--	200	1,000
	12/19	5.0 B(4)	--	--	--	--	--	--			
Methylene chloride	12/1	0.3 Q	0.1 Q	--	--	--	--	--	--	0.5	5
	12/19	0.2 Q	--	--	--	--	--	0.2 Q			
1,1,1-Trichloroethane	12/1	--	0.3 Q	0.9	1.8	--	--	2.3	--	40	200
	12/19	--	0.3 Q	0.6	1.0	--	--	2.1			
1,1-Dichloroethane	12/1	--	--	0.7	0.5 Q	--	--	2.8	--	85	850
	12/19	--	0.1 Q	0.4 Q	0.2 Q	--	--	2.3			
Trichloroethene	12/1	--	--	0.5 Q	1.1	--	--	1.4	--	0.5	5
	12/19	--	--	0.3 Q	0.7	--	0.1 Q	1.4			
Chloroform	12/1	--	--	--	--	0.1 Q	--	0.5	--	0.6	6
	12/19	--	--	--	--	0.1 Q	--	0.4 Q			
Benzene	12/1	--	--	--	0.4 Q	--	--	--	--	0.5	5
	12/19	--	--	--	0.5 Q	--	--	--			
1,1-Dichloroethene	12/1	--	--	--	--	--	--	0.2 Q	--	0.7	7
	12/19	--	--	--	--	--	--	0.2 Q			
cis-1,2-Dichloroethene	12/1	--	--	--	--	--	--	2.0	--	7	70
	12/19	--	--	--	--	--	--	1.9			
Tetrachloroethene	12/1	--	--	--	--	--	--	0.2 Q	--	0.5	5
	12/19	--	--	--	--	--	--	0.2 Q			
4-Methyl-2-pentanone	12/1	--	--	--	--	--	2.8 Q	--	--	50	500
	12/19	--	--	--	--	--	--	--			

NOTES:

- <sup>1</sup> Toluene was also detected at 0.06 µg/L Q in the December 19, 1994, sampling round.  
 B(4) Analyte was present in the method blank. If the processes that were applied to the sample were applied to the method blank, the value of the analyte (acetone) in the method blank would likely be 4 µg/L.  
 Q Concentration reported is greater than the Method Detection Limit, but less than the Practical Quantitation Limit (i.e., the presence of the constituent concentration is not certain).  
 ES Enforcement Standard (ES)  
 PAL Preventive Action Limit (PAL)  
 -- Not detected.