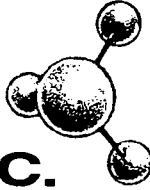


TWIN PORTS

TESTING INC.

SINCE 1972



1301 NORTH THIRD STREET • SUPERIOR, WISCONSIN 54880
(715) 392-7114 • FAX (715) 392-7163

728 GARFIELD AVENUE • DULUTH, MINNESOTA 55802
(218) 722-1911 • FAX (218) 722-3295

8 INDUSTRIAL PARK ROAD • NEGAUNEE, MICHIGAN 49866
(906) 226-6653 • FAX (906) 226-3699

March 18, 1998
TPT#604-96e.RI

Mr. Steve Leppälä
Minnesota Pollution Control Agency
320 West Second Street
Duluth, Minnesota, 55802
MPCA Leak #3534

Re: Junction Food N Fuel
Annual Groundwater Monitoring Report

Dear Mr. Leppälä:

Twin Ports Testing, Inc. (TPT) is submitting the 1997 Annual Groundwater Monitoring Report for the Junction Food N Fuel (site) on behalf of Mr. Jack Curtis (client). The report recommends implementation of a CAD during the 1998 construction season following MPCA CAD. TPT would like to discuss CAD implementation with you and John Smith as soon as possible.

Please contact me with any questions or comments concerning this project at (715) 392-7114.

Sincerely,

TWIN PORTS TESTING, INC.

Hans Wronka, Hydrogeologist

attachment: Annual Monitoring Report

ANNUAL GROUNDWATER MONITORING REPORT

JUNCTION FOOD N FUEL

5497 MILLER TRUNK HIGHWAY

HERMANTOWN, MINNESOTA

TPT# 604-96E.RI

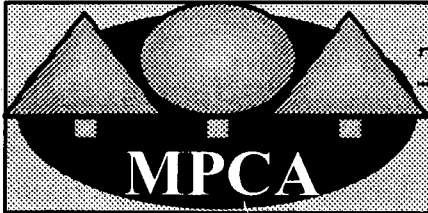
MPCA LEAK ID# 3534

3.18.98

**MPCA
320 WEST SECOND STREET
DULUTH, MN 55802**

ATTN: MR. STEVE LEPPALA

Rev'd 3/18/98



**Tanks and Emergency Response Section
Minnesota Pollution Control Agency**

Annual Monitoring Report

Fact Sheet 3.26

April 1996

After the Corrective Action Design (CAD) has been approved, this worksheet should be submitted on an annual schedule. If an active remediation system has been installed, the "CAD System Monitoring Worksheet", fact sheet #3.31 should be submitted along with this worksheet. The "Corrective Action Design System Monitoring Worksheet" documents data collection of system emissions and operating parameters, as well as any changes to the system.

Under certain circumstances Minnesota Pollution Control Agency (MPCA) staff may request submittal of the monitoring information on a quarterly schedule. This should be conducted according to fact sheet 3.25, "Quarterly Monitoring Report."

Site name and address: ___Junction Food N Fuel___
 ___5497 Miller Trunk Highway___
 ___Hermantown, Minnesota___

MPCA Leak Number: LEAK #: _00003534_

Date submitted: __3__ / __18__ / __98__

Section I. DISCUSSION

Discuss the results of the monitoring performed since the remedial investigation (RI) report or the last progress report has been submitted. Include any notable trends in the discussion.

Twin Ports Testing, Inc. (TPT) submitted additional information regarding the CAD for the site on September 15, 1997. A new potable water well was installed at the site in November 1997 following discussion with the MPCA and Minnesota Department of Health (MDH). The new potable well is currently supplying water to the site facility. A treatment system design for

improving the aesthetic quality of the potable water is awaiting approval from the MPCA, MDH and Petrofund.

TPT conducted three quarterly rounds of groundwater sampling in 1997. Groundwater flow data was collected during these events as well as in January 1997. Figures 1, 2, 3 and 4 show groundwater flows generally southwest to northeast across the site. Groundwater elevations appear to be consistent with seasonal changes with an average fluctuation of 3.31 feet (Appendix A). The hydraulic gradient at the site ranges from 0.004 to 0.014.

The main petroleum hydrocarbon contaminant concern continues to be the presence of benzene, toluene, ethylbenzene and xylene in MW-1 and MW-2. These concentrations remain significantly above MDH health risk limits (HRLs) as shown in Table 2. A notable trend of decreasing concentrations has not been observed in MW-1 or MW-2 as shown in Appendix B. MW-4 and MW-6 are down gradient of MW-1 and MW-2. MW-4 and MW-6 and have shown no trend of increasing petroleum hydrocarbon concentrations which indicate plume migration is not occurring below HRLs.

The bioparameter data collected to date has not provided conclusive evidence to support or discount the occurrence of biodegradation. Continued groundwater monitoring events should provide additional data to make such a determination.

If vapor impacts were reported during the RI , discuss the results of the vapor monitoring survey completed during this reporting period. Include in your discussion the sampling instrument and sampling method.

There is no history of vapor impacts at the site.

NOTE: If vapor concentrations exceed 10 percent of the lower explosive limit, exit the building and contact the local fire department immediately. Then contact the Minnesota Duty Officer (24 hours) at 612/649-5451 (metro and outside Minnesota) or 1-800/422-0798 (Greater Minnesota). TTY users call 612/297-5353 (V/TTY) or 1-800/627-3529 (V/TTY). **Vapor mitigation is required.**

Section II. RECOMMENDATIONS

The recommendations section should present recommendations for additional corrective action, modifications to corrective action, additional monitoring or site closure. If cleanup goals have been achieved at the site, recommendations for termination of corrective actions may be presented.

The data presented in this report shows that there is not a notable decreasing trend in petroleum hydrocarbon concentrations in MW-1 and MW-2. Petroleum hydrocarbon concentrations continue to exceed Health Risk Limits in these wells. TPT will continue with quarterly groundwater monitoring until the previously submitted CAD has been reviewed by the MPCA.

TPT welcomes discussion of the CAD recommendations for site remediation. This discussion is intended to coordinate the implementation of the MPCA approved CAD for the 1998 construction season. TPT is aware that Mr. John Smith of the MPCA is the new regional hydrogeologist for the site.

Section III: TABLES

Table 1

Water table summary.

Well Number	Date Sampled	Depth of Water from Top of Casing (ft)	Product Thickness (ft)	Depth of Water Below Grade (ft)	Relative Ground water Elevation (ft)
MW-1	1/8/97	8.82 100.72	NONE	7.12	91.90
	4/17/97	5.76	NONE	4.06	94.96
	9/19/97	7.72	NONE	6.02	93.00
	12/17/97	7.99 100.72	NONE	6.29	92.73
MW-2	1/8/97	6.50 98.48	NONE	4.34	91.98
	4/17/97	NS	NONE	NS	NS
	9/19/97	4.42	NONE	2.26	94.06
	12/17/97	5.60 98.48	NONE	3.44	92.88
MW-3	1/8/97	10.05 103.12	NONE	7.55	93.07
	4/17/97	5.38	NONE	2.88	97.74
	9/19/97	8.43	NONE	5.93	94.69
	12/17/97	9.54 103.12	NONE	7.04	93.58
MW-4	1/8/97	6.22 98.85	NONE	4.89	92.63
	4/17/97	4.04	NONE	2.71	94.81
	9/19/97	5.51	NONE	4.18	93.34
	12/17/97	6.02 98.85	NONE	4.69	92.83
MW-5	1/8/97	9.09 101.04	NONE	6.49	91.95
	4/17/97	3.53	NONE	0.93	97.51
	9/19/97	8.17	NONE	5.57	92.87
	12/17/97	8.39 101.04	NONE	5.79	92.65
MW-6	1/8/97	6.21 98.93	NONE	4.31	92.72
	4/17/97	3.62	NONE	1.72	95.31
	9/19/97	5.55	NONE	3.65	93.38
	12/17/97	5.91 98.93	NONE	4.01	93.02
MW-7	1/8/97	NS	NONE	NS	NS
	4/17/97	2.30 97.97	NONE	2.71	95.67
	9/19/97	4.79	NONE	5.2	93.18
	12/17/97	5.30 97.97	NONE	5.71	92.67

Notes: NS = well not sampled

old 100.59 (0.13)
 old 98.67 (-0.19)
 old 103.06 (0.06)

old 98.57 (0.28)

101.94 (0.01)

old 98.05 (-0.08)

Table 2.

Indicate the laboratory analytical results for water samples collected from each well. All analytical results collected from each well should be included on this table.

Well #	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylene (ppb)	MTBE (ppb)	GRO (ppm)	DRO (ppm)
MW-1	4/14/97	70.0*	26.0	18.0	140.0	<5.0	0.40	NA
	9/19/97	4400*	1430*	994*	6740	<250.0	21.8	NA
	12/17/97	5700*	1200*	1200*	8000	NA	27.0	NA
MW-2	4/14/97	NS	NS	NS	NS	NS	NS	NS
	9/19/97	23,000*	26,500*	3170*	13,900*	<1000	94.7	NA
	12/17/97	28,000*	32,000*	3400*	15,900*	NA	110	NA
MW-3	4/14/97	<5.0	<5.0	<5.0	<15.0	<5.0	0.12	NA
	9/19/97	8.4	1.2	9.7	10.2	<10.0	0.22	NA
	12/17/97	4.6	<1.0	<1.0	<2.0	NA	0.059	NA
MW-4	4/14/97	<5.0	<5.0	<5.0	<15.0	<5.0	<0.10	NA
	9/19/97	<1.0	<1.0	<1.0	<3.0	<10.0	<0.1	NA
	12/17/97	<1.0	<1.0	<1.0	<2.0	NA	<0.05	NA
MW-5	4/14/97	<5.0	<5.0	<5.0	<15.0	<5.0	<0.10	NA
	9/19/97	<5.0	<1.0	<1.0	<3.0	<10.0	<0.1	NA
	12/17/97	NS	NS	NS	NS	NS	NS	NS
MW-6	4/14/97	<5.0	<5.0	<5.0	<15.0	<5.0	<0.10	NA
	9/19/97	<5.0	<1.0	<1.0	<3.0	<10.0	<0.1	NA
	12/17/97	1.3	<1.0	<1.0	<2.0	NA	<0.05	NA
MW-7	4/14/97	<5.0	<5.0	<5.0	<15.0	<5.0	<0.10	NA
	9/19/97	<5.0	<5.0	<5.0	<3.0	<10.0	<0.1	NA
	12/17/97	<1.0	<1.0	<1.0	<2.0	NA	<0.05	NA
PW-1 **	4/14/97	240.0*	100.0	<5.0	<15.0	<5.0	0.43	NA
	9/19/97	27.3*	<1.0	<1.0	<3.0	<10.0	<0.1	NA
PW-2 ***	12/17/97	<1.0	<1.0	<1.0	<2.0	NA	NA	NA

01/7
02/12

Notes: NA = parameter not analyzed, * = concentration exceeds MDH HRL, NS = well not sampled, ** = PW-1 was abandoned in December 1997, *** = A new well (PW-2) was installed for potable water and analyzed for GRO and VOCs (465E)

Table 4.

Bioparameter Information

Well #	Date Analyzed	Dissolved Oxygen (ppm)	Temperature (°C)	PH	Conductivity (µs/cm)	Dissolved Iron (ppm)	Nitrate (ppm)	Sulfate (ppm)
MW-1	9/19/97	0.0	12.1	6.51	1747	156	<0.5	<0.5
	12/17/97	0.4	8.1	5.23	1614	840	<0.05	<10.0
MW-2	9/19/97	0.2	14.5	6.65	1717	142	<0.5	<0.5
	12/17/97	0.3	8.7	5.77	1580	62.0	<0.05	<10
MW-3	9/19/97	3.8	13.5	6.7	2000+	42.1	<0.5	<0.5
	12/17/97	3.0	7.6	5.89	1915	11.0	<0.05	<10.0
MW-4	9/19/97	1.8	12.5	6.39	1800	50.6	<0.5	<0.5
	12/17/97	1.4	8.4	5.49	1582	31.0	<0.05	13.0
MW-5	9/19/97	0.1	11.1	6.82	2000+	107	<0.5	<0.5
	12/17/97	NS	NS	NS	NS	NS	NS	NS
MW-6	9/19/97	1.7	11.0	6.58	1591	44.1	<0.5	<0.5
	12/17/97	1.8	7.9	5.84	1245	15.0	<0.05	15
MW-7	9/19/97	3.1	14.4	6.69	1873	5.65	<0.5	31.0
	12/17/97	4.2	8.5	6.04	1696	<0.1	<0.05	18

Notes: NA = parameter not analyzed, NS = well was frozen and not able to be sampled

Section IV. FIGURES

Figures - (all maps must include a north arrow, scale and legend) *Approximate scales are not acceptable.*

1. Site location map. Adapt this map from a U.S. Geological Survey 7.5 minute quadrangle and identify the name of the 7.5 minute quadrangle.
2. Site map showing the locations of all ground water and vapor monitoring points.
3. Updated ground water contour map, using water level elevations from the most recent round of water level measurements. Show all wells at the site, and differentiate wells constructed in different aquifers. Label ground water contours and elevations at each data point used for contouring.
4. Copies of most recent laboratory reports for ground water analyses, including a copy of the Chain of Custody.
5. Hydrograph for all monitoring and recovery wells.
6. Graph(s) showing contaminant concentrations over time for all monitoring and recovery wells.
7. Table of dissolved oxygen sample results (if collected)

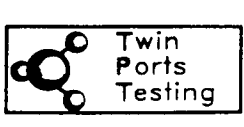
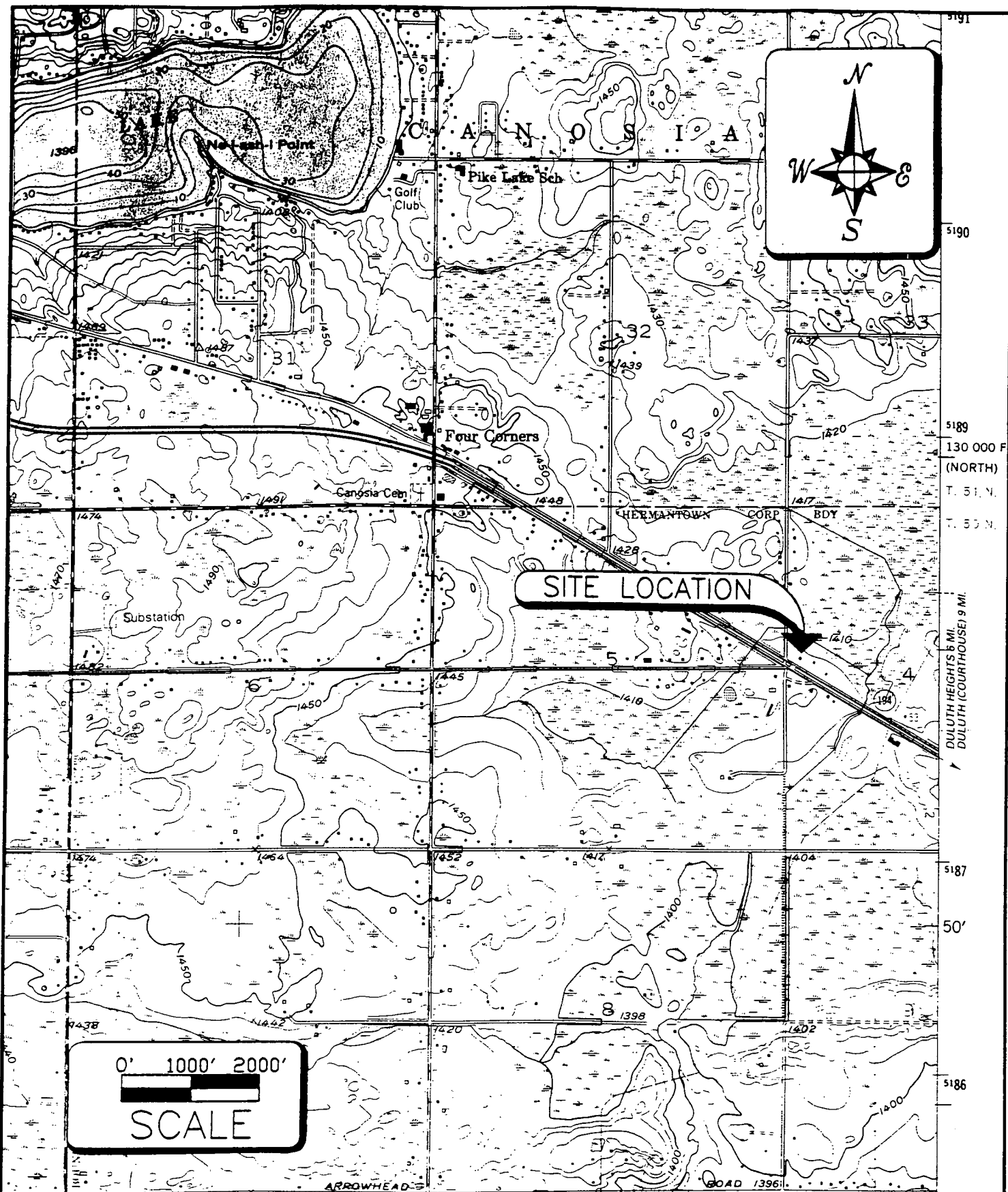
Section V. APPENDICES

The appendices section of the report contains sufficient information to document all activities completed since the last report. All reproduced data must be legible. In general this should include all applicable information required for the Appendices section of a RI report.

APPENDIX A MONITORING WELL HYDROGRAPHS

APPENDIX B CONTAMINANT CONCENTRATION GRAPHS

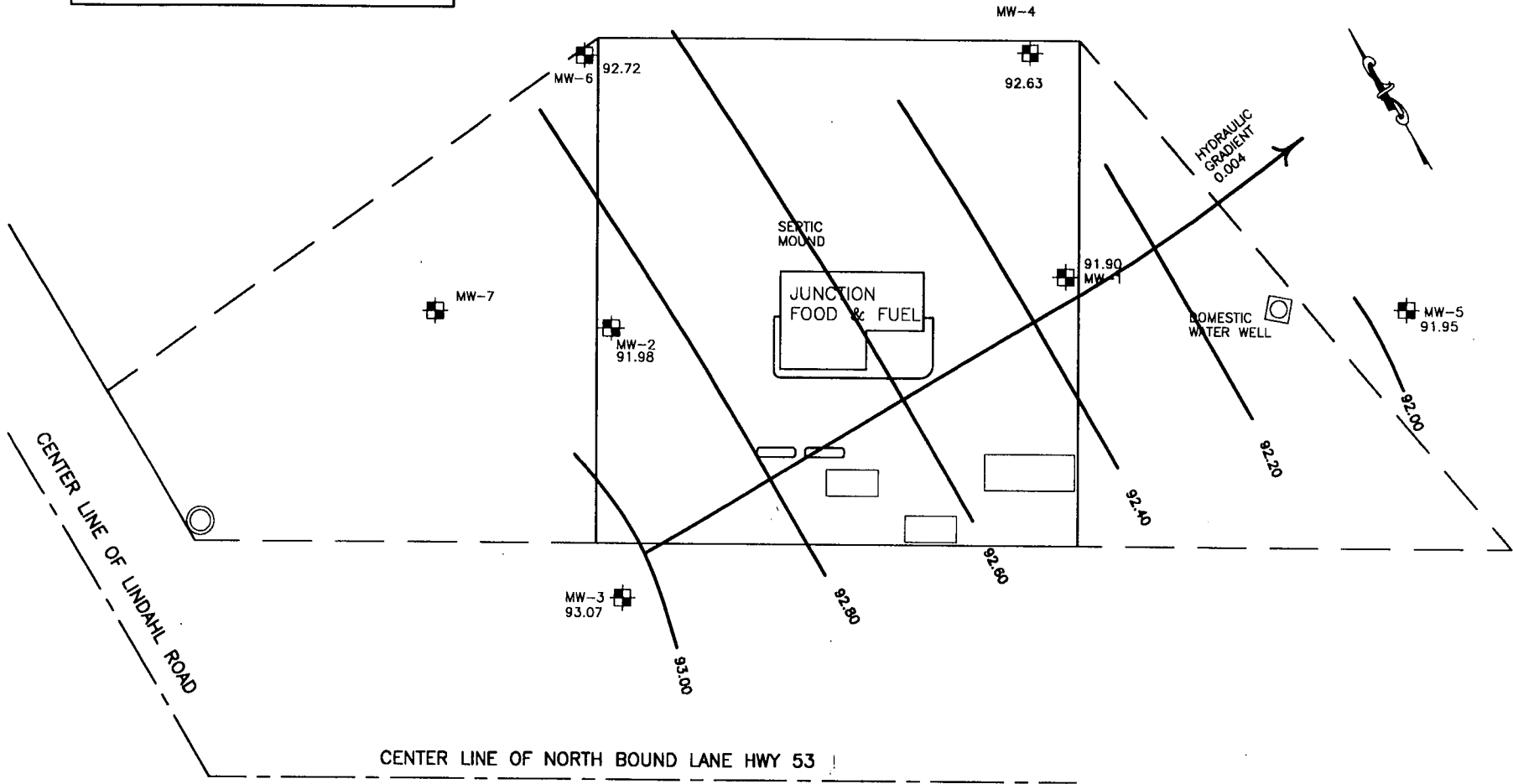
APPENDIX C LABORATORY ANALYTICAL REPORTS



SITE LOCATION MAP
 JUNCTION FOOD N FUEL
 5493 MILLER TRUNK HWY
 DULUTH, MINNESOTA

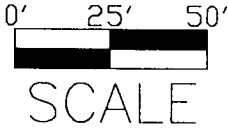
DRAWN BY	MMR
CHECKED BY	MCD
APPR BY	BEM
DATE	1/97
TPT NO.	604-96E.RI
FIGURE	1


LEGEND	
	MONITORING WELL LOCATION

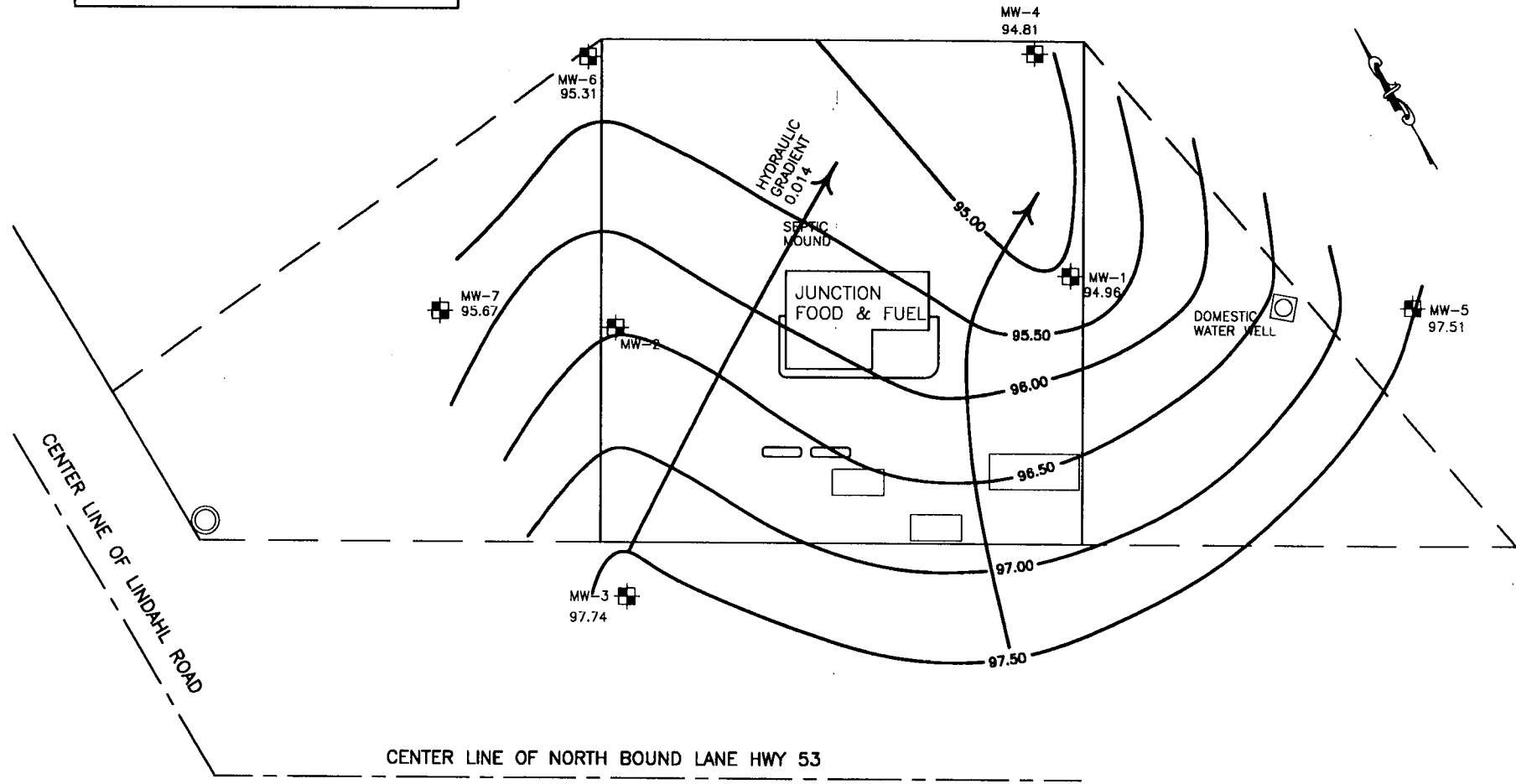


GROUNDWATER FLOW DIRECTION (1/8/97)
 FOOD N FUEL
 5493 MILLER TRUNK HWY
 HERMANTOWN, MINNESOTA

DRAWN BY	MMR
CHECKED BY	HAW
APPR BY	BEM
DATE	1/97
TPT NO.	804-96E.R1
FIGURE	2

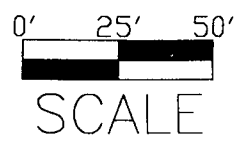



LEGEND	
	MONITORING WELL LOCATION

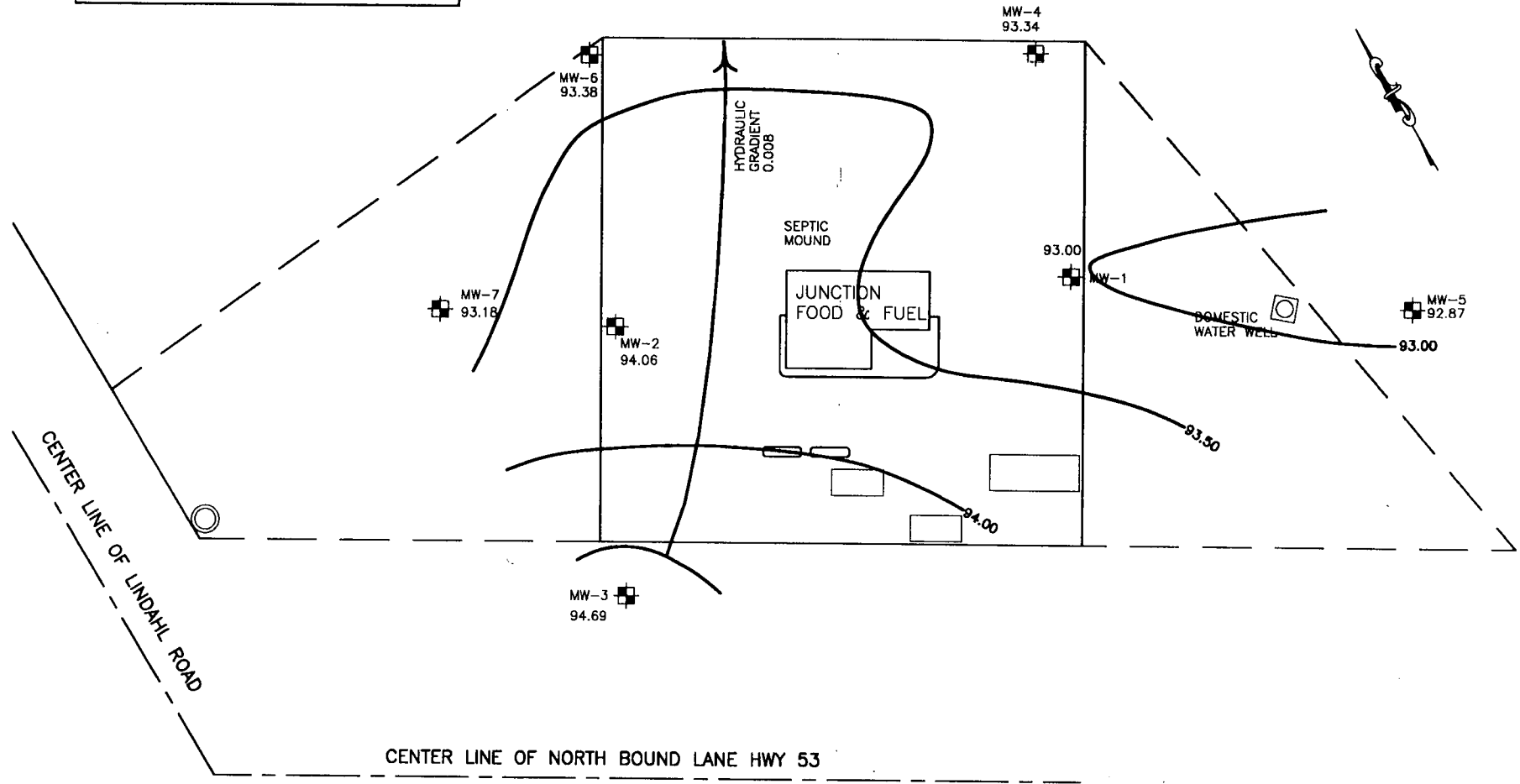


GROUNDWATER FLOW DIRECTION (4/17/97)
 FOOD N FUEL
 5493 MILLER TRUNK HWY
 HERMANTOWN, MINNESOTA

DRAWN BY	MMR
CHECKED BY	HAW
APPR BY	BEM
DATE	4/97
TPT NO.	804-96E.RI
FIGURE	3



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	MONITORING WELL LOCATION

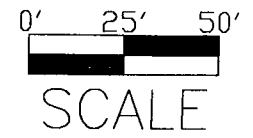


NOTE: WATER LEVEL ABOVE TOP OF SCREEN ON MW-6 AND MW-1.



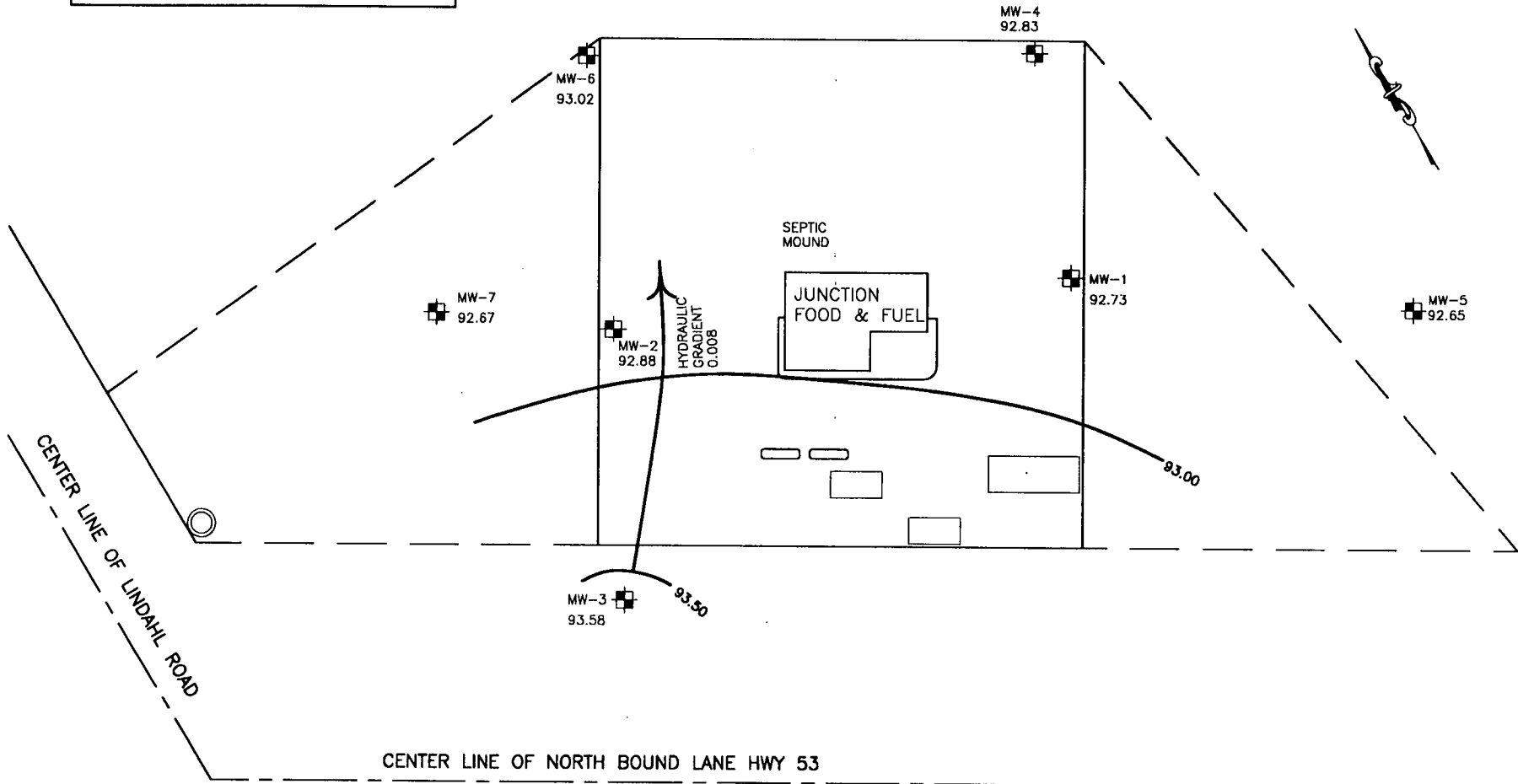
GROUNDWATER FLOW DIRECTION (9/19/97)
 FOOD N FUEL
 5493 MILLER TRUNK HWY
 HERMANTOWN, MINNESOTA

DRAWN BY	MMR
CHECKED BY	HAW
APPR BY	BEM
DATE	9/97
TPT NO.	604-98E.RI
FIGURE	4



LEGEND

☒ MONITORING WELL LOCATION

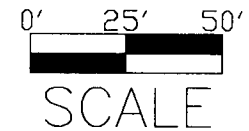


NOTE: WATER LEVEL ABOVE TOP OF SCREEN ON MW-6 AND MW-1.



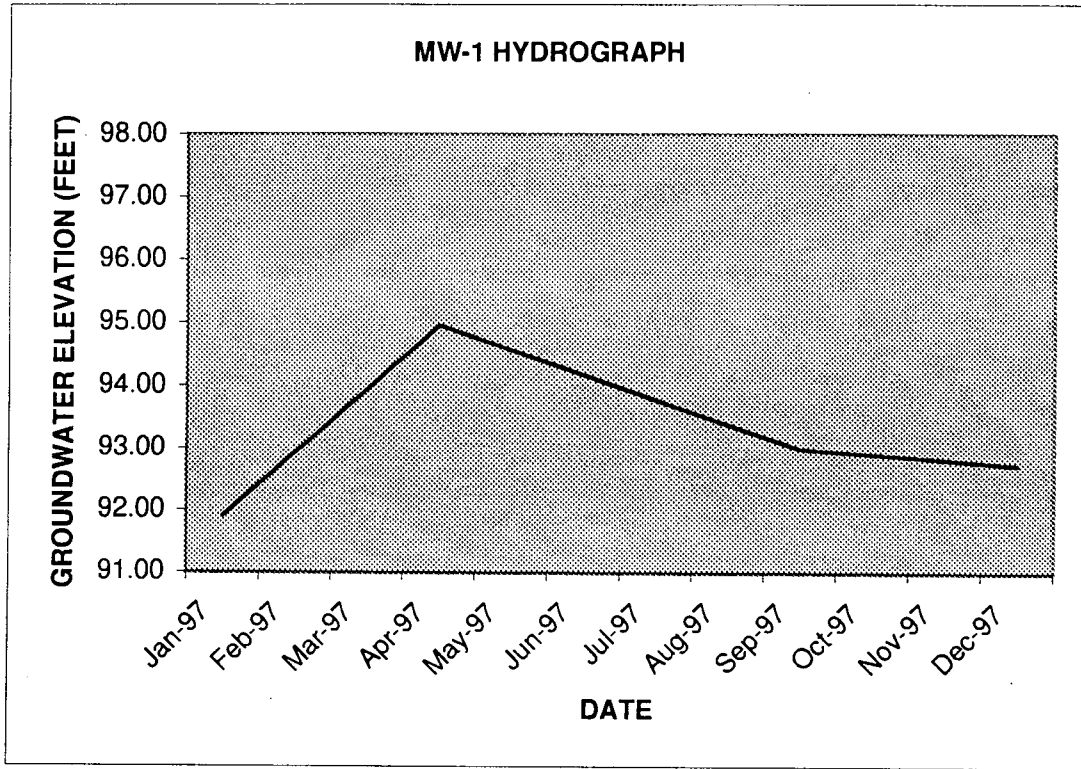
GROUNDWATER FLOW DIRECTION (12/17/97)
 FOOD N FUEL
 5493 MILLER TRUNK HWY
 HERMANTOWN, MINNESOTA

DRAWN BY	MMR
CHECKED BY	HAW
APPR BY	BEM
DATE	12/97
TPT NO.	804-96E.RI
FIGURE	5

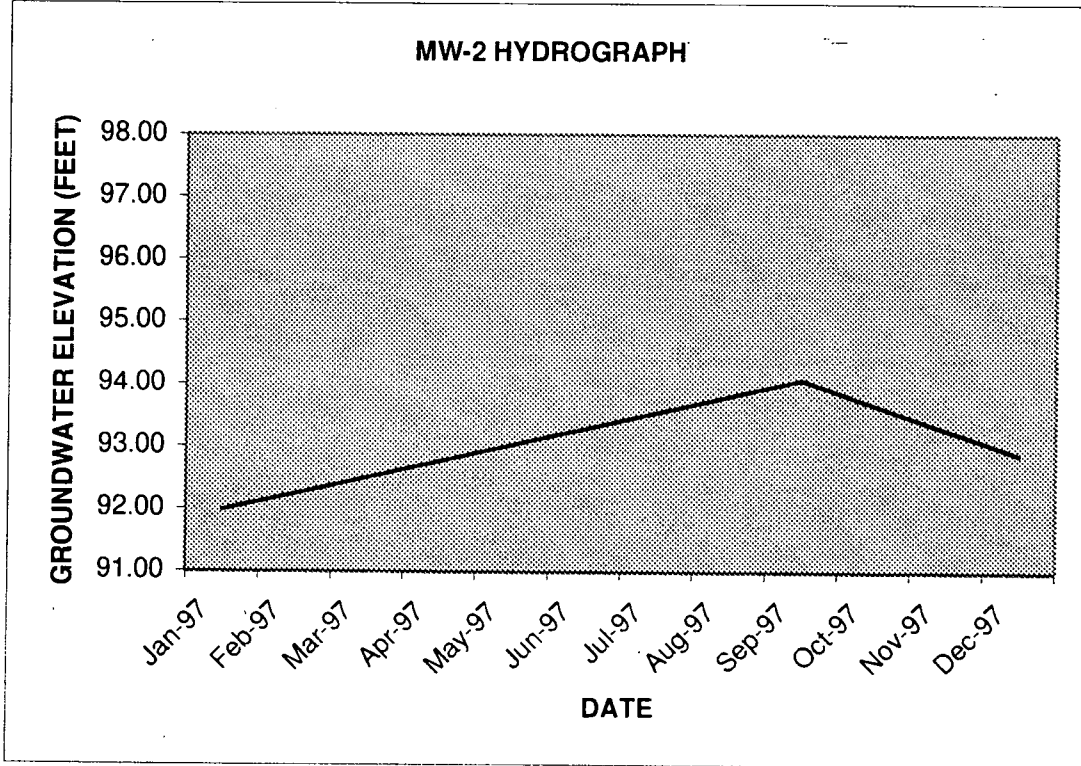


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604-96E.RI

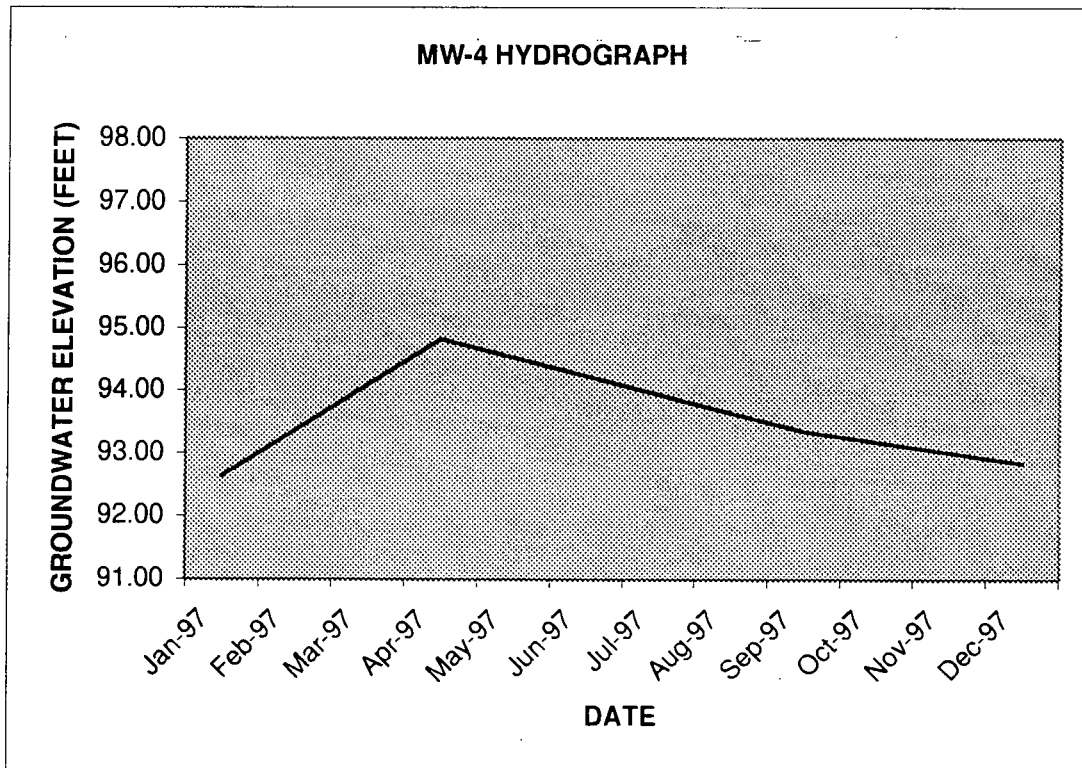
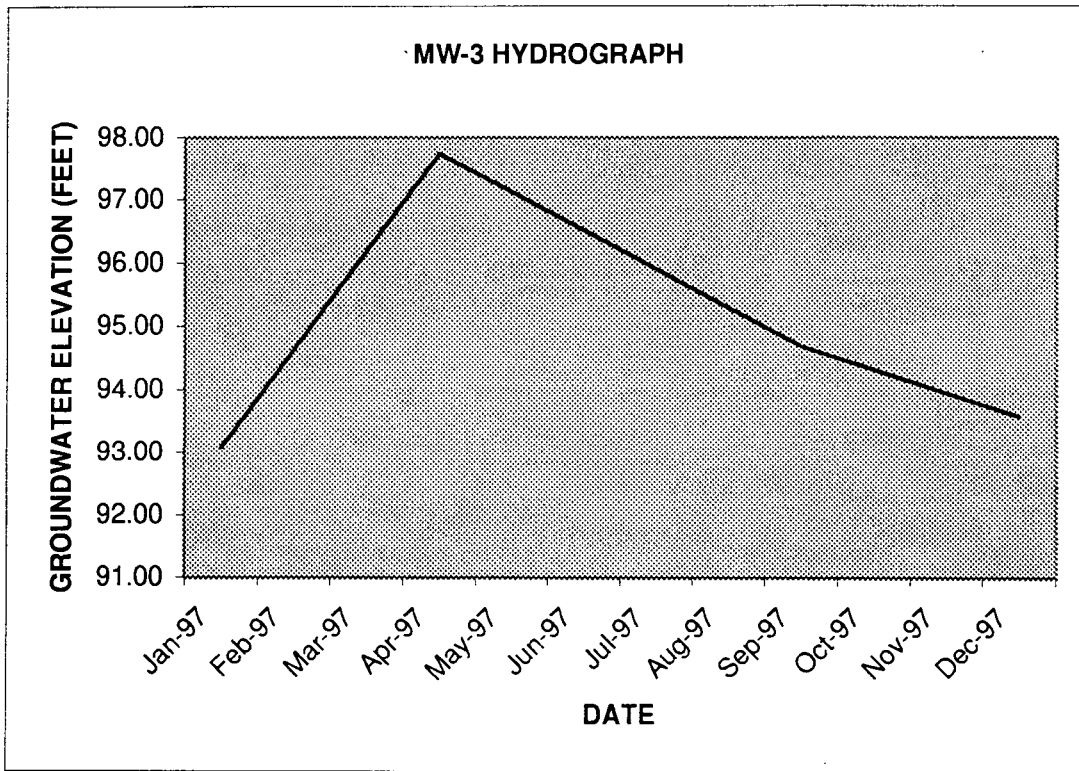
MW-1 HYDROGRAPH



MW-2 HYDROGRAPH

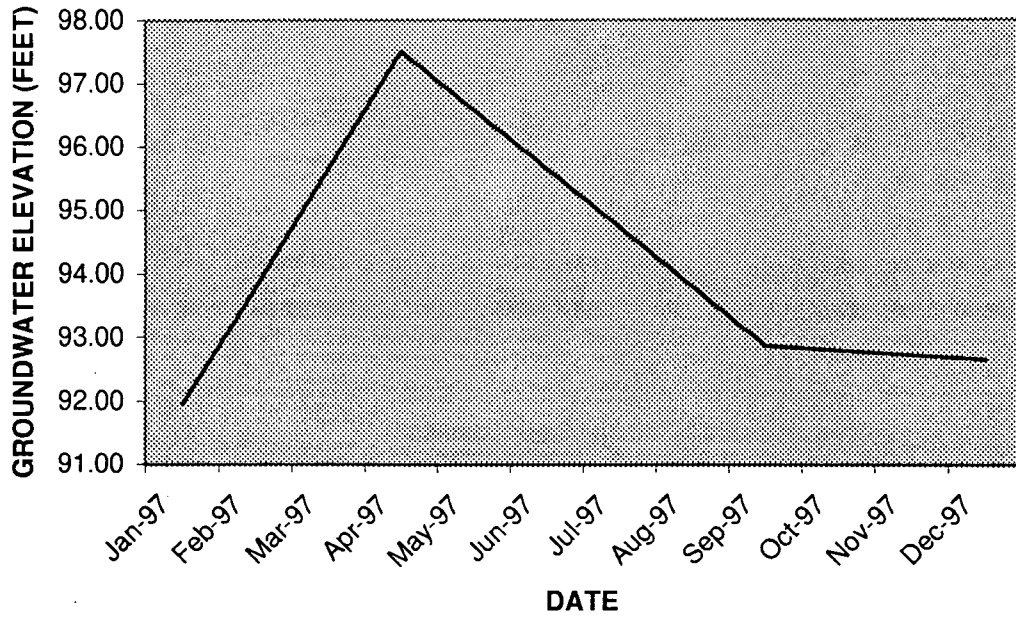


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604-96E.RI

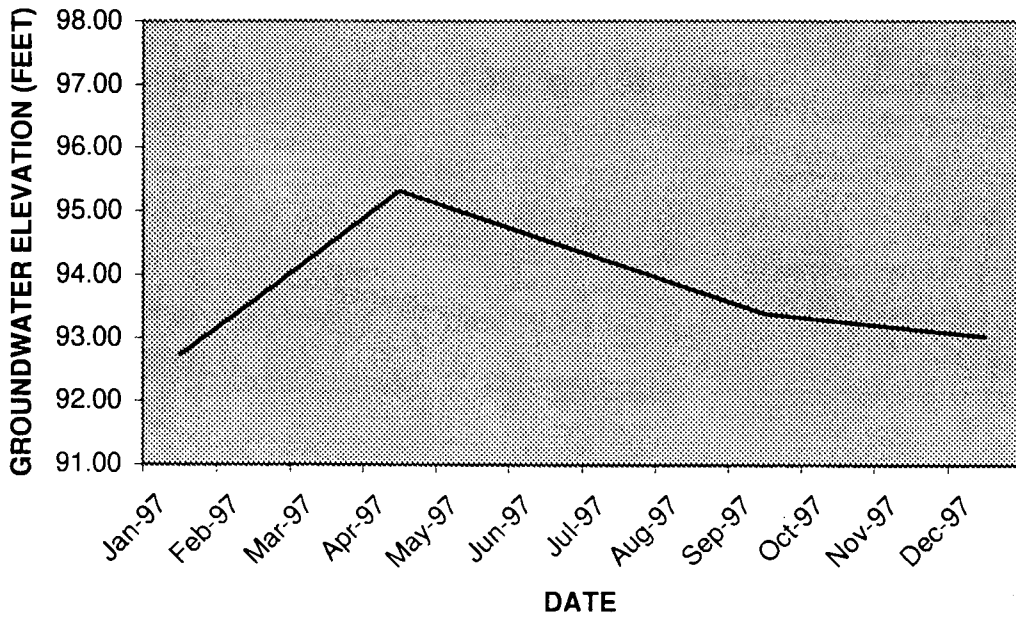


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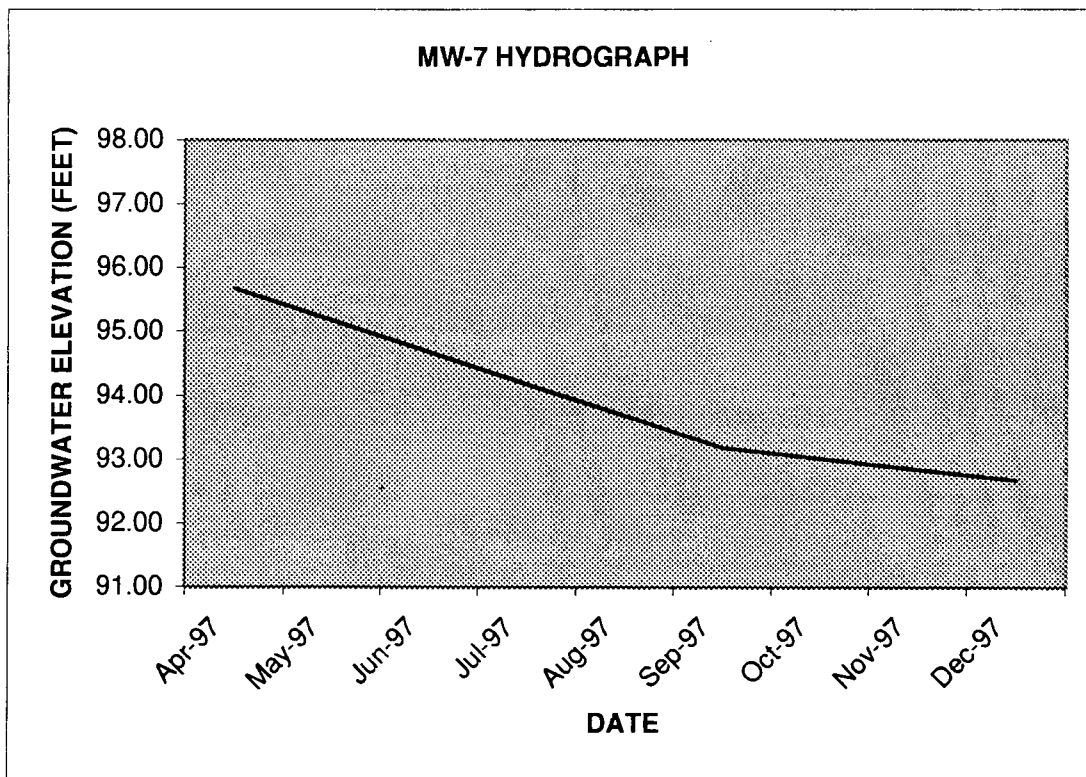
MW-5 HYDROGRAPH



MW-6 HYDROGRAPH



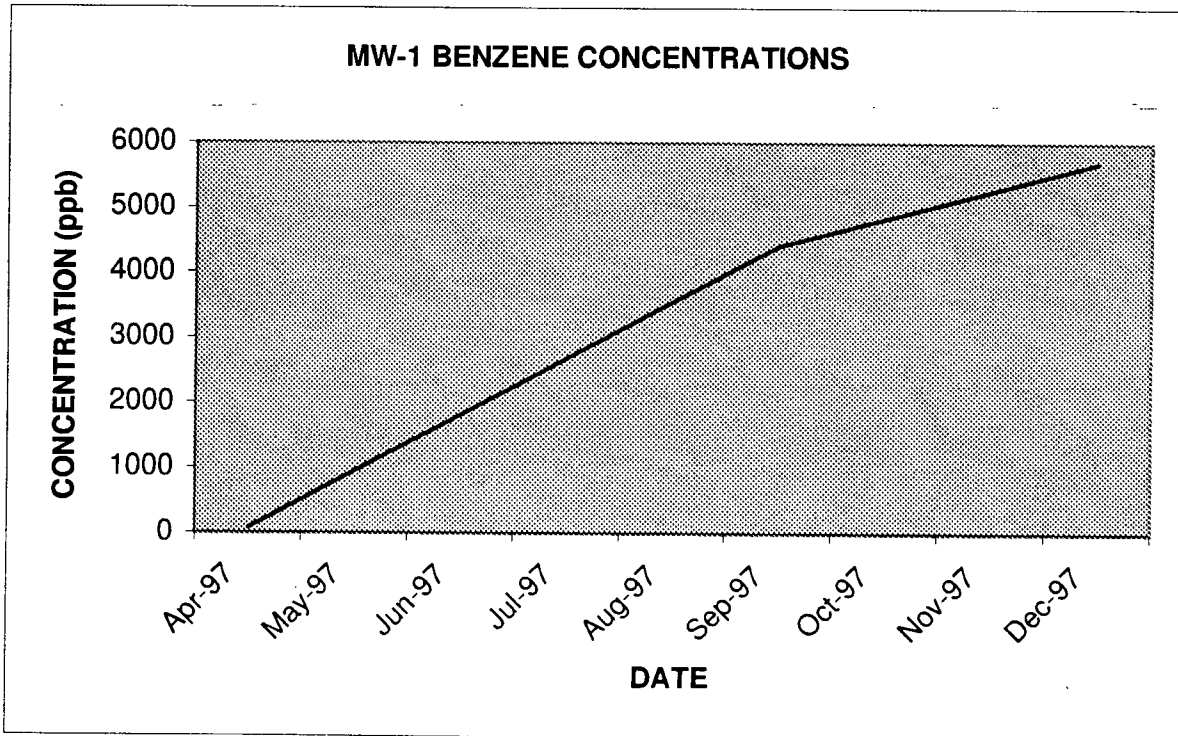
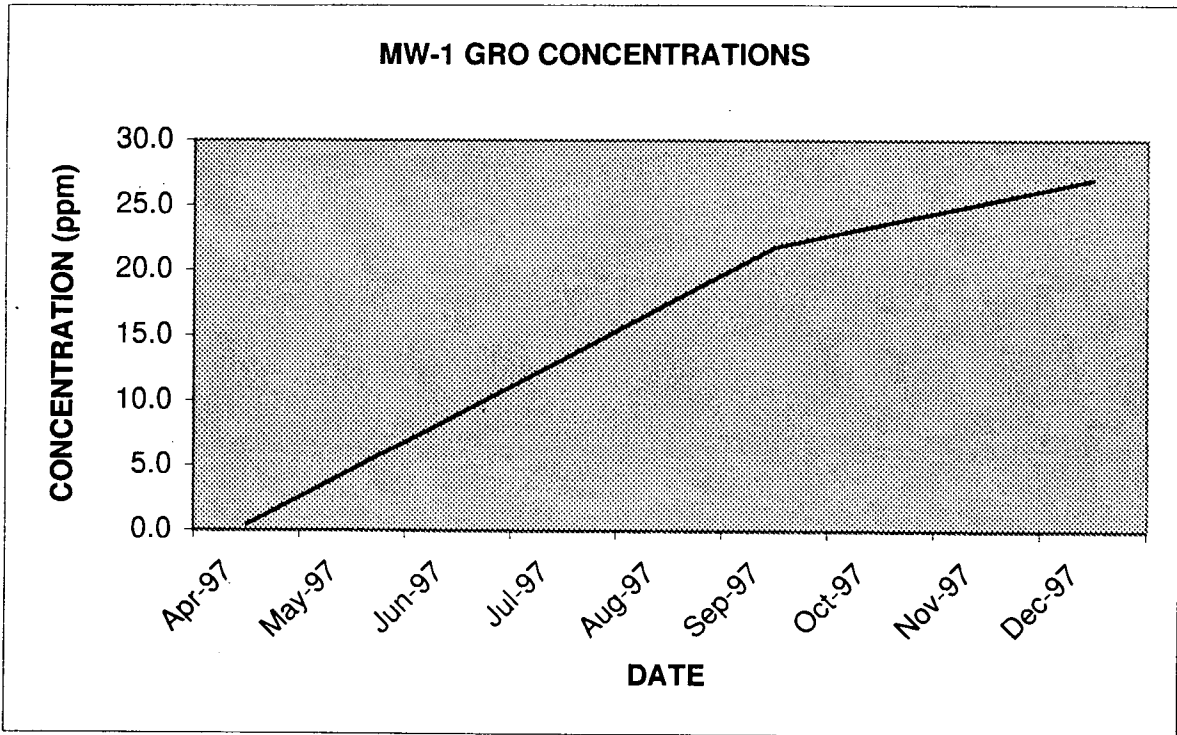
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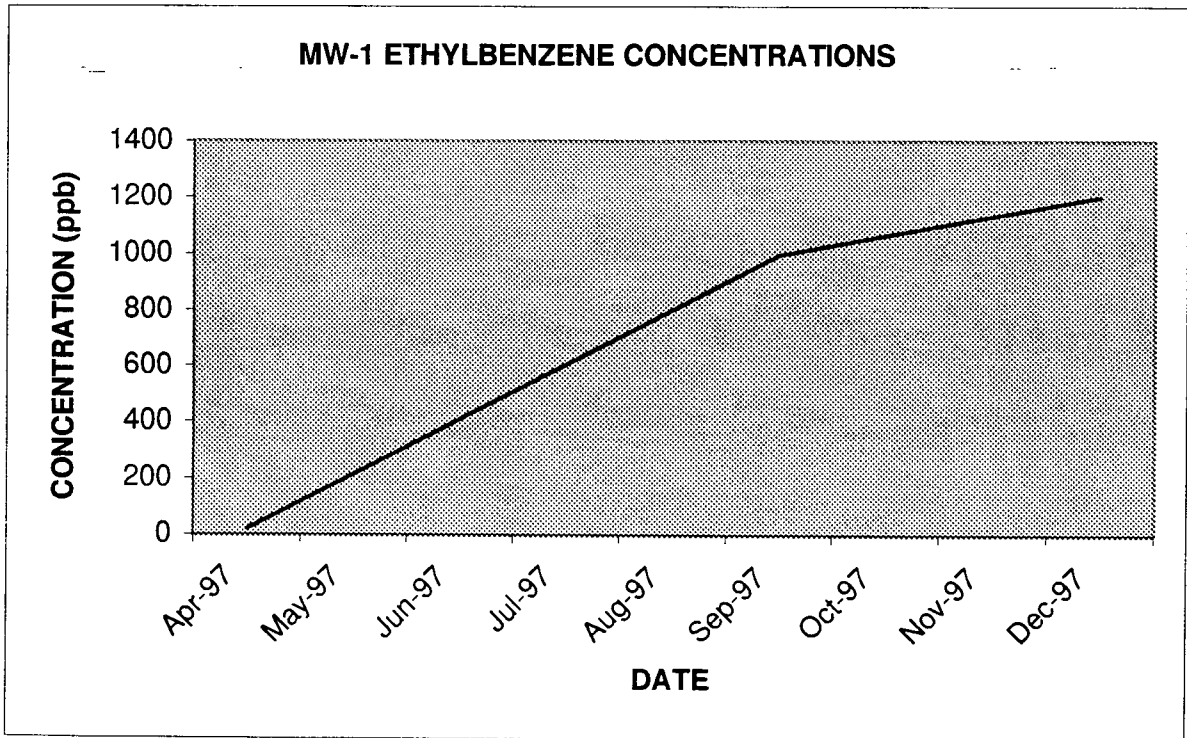
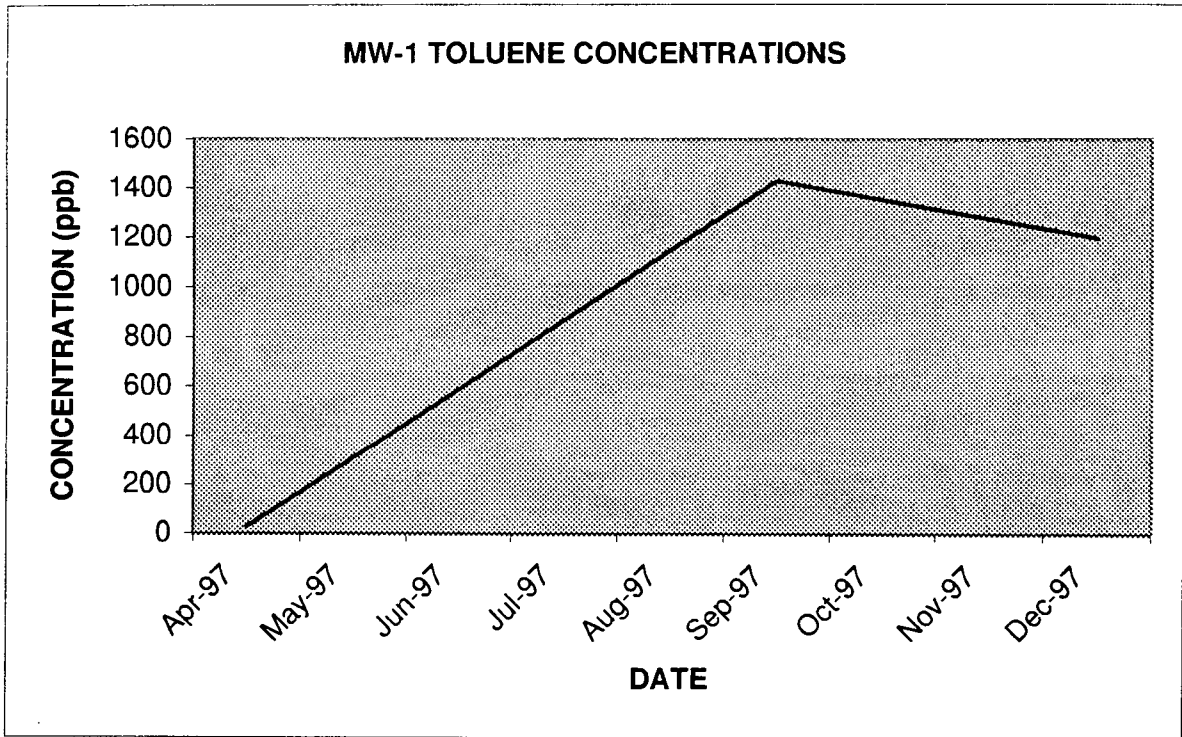


APPENDIX B

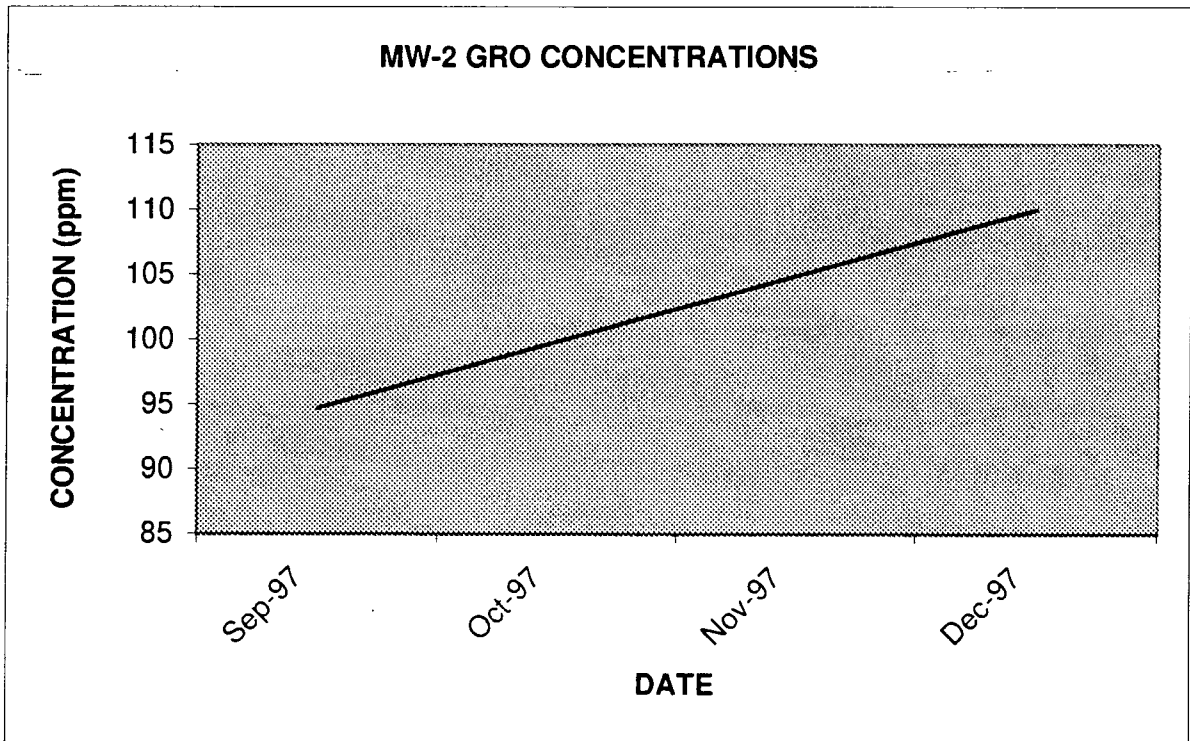
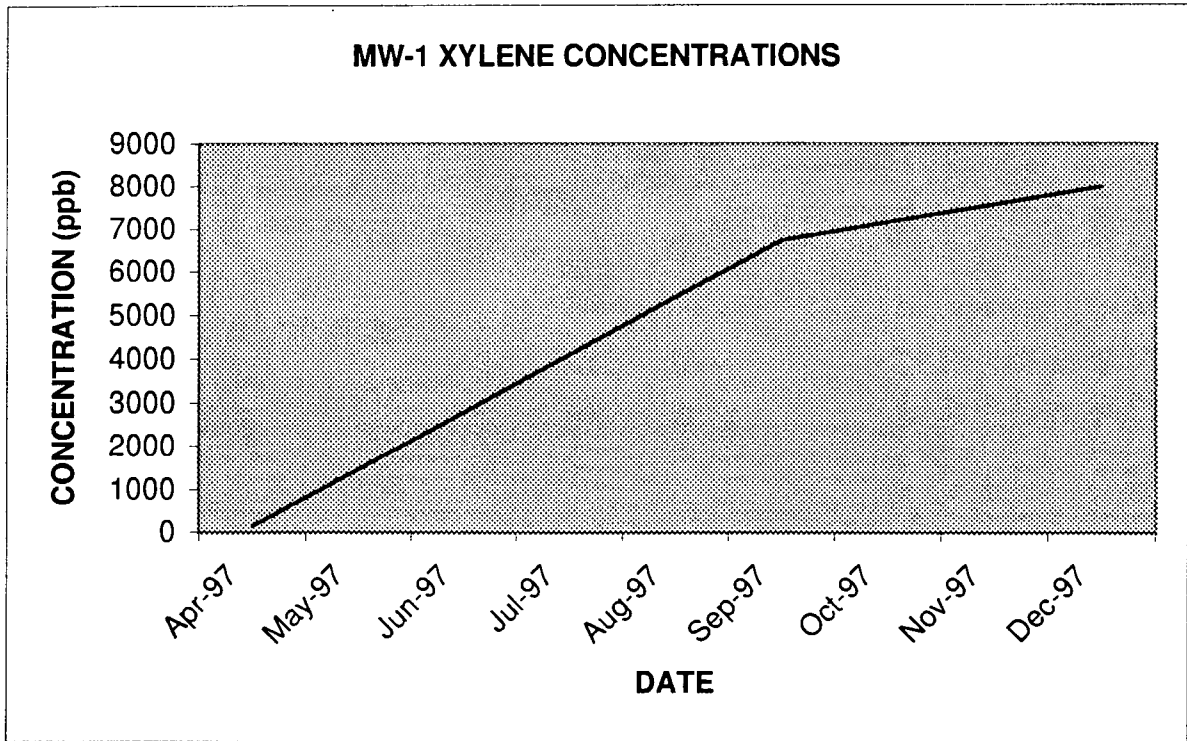
CONTAMINANT CONCENTRATION GRAPHS

JUNCTION FOOD N FUEL
604-96E.RI

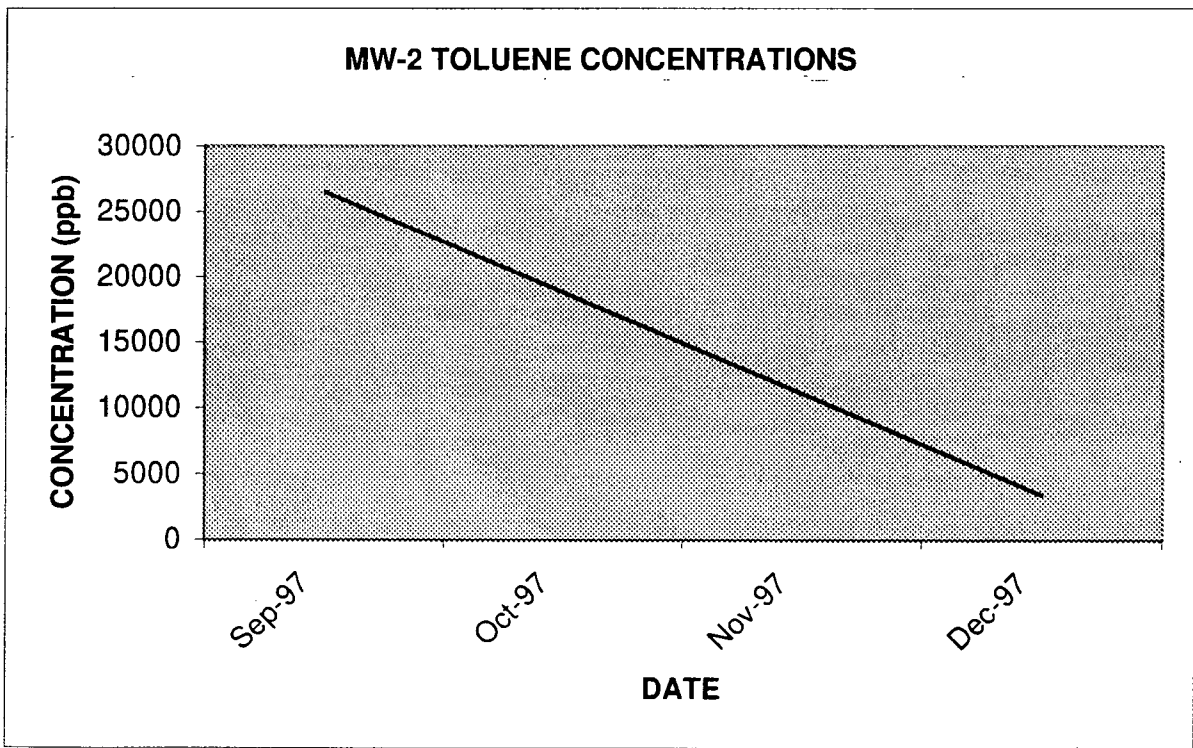
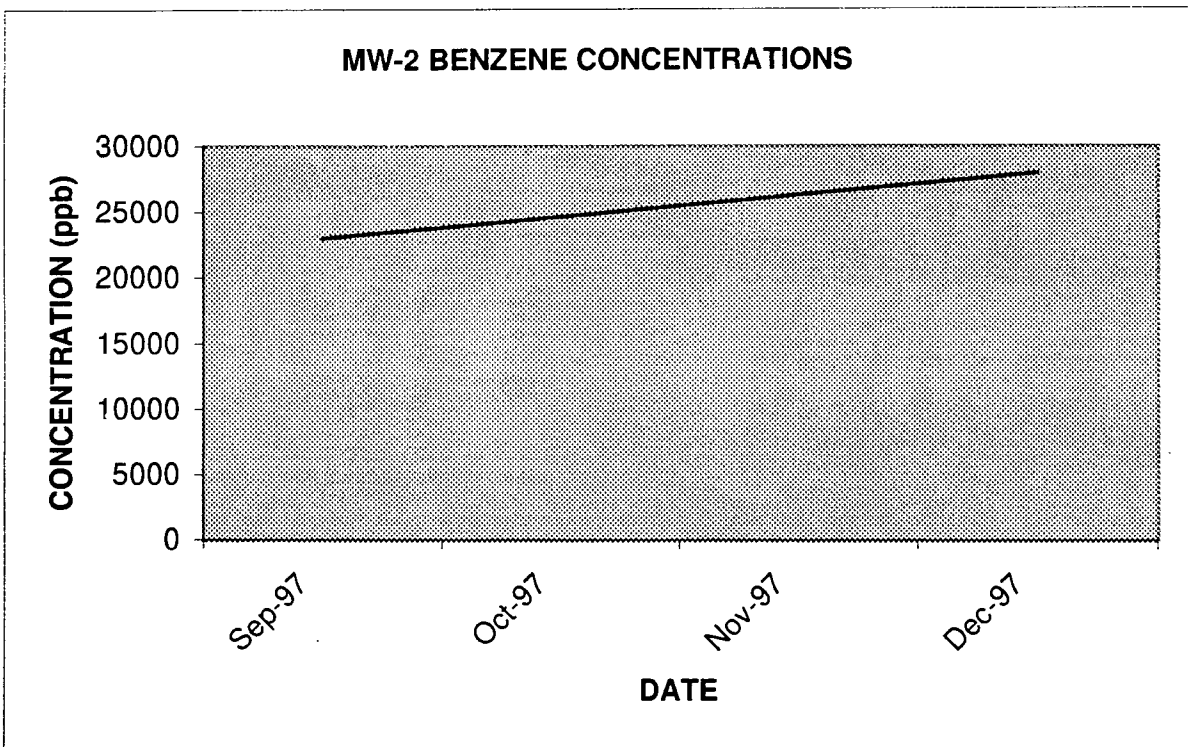




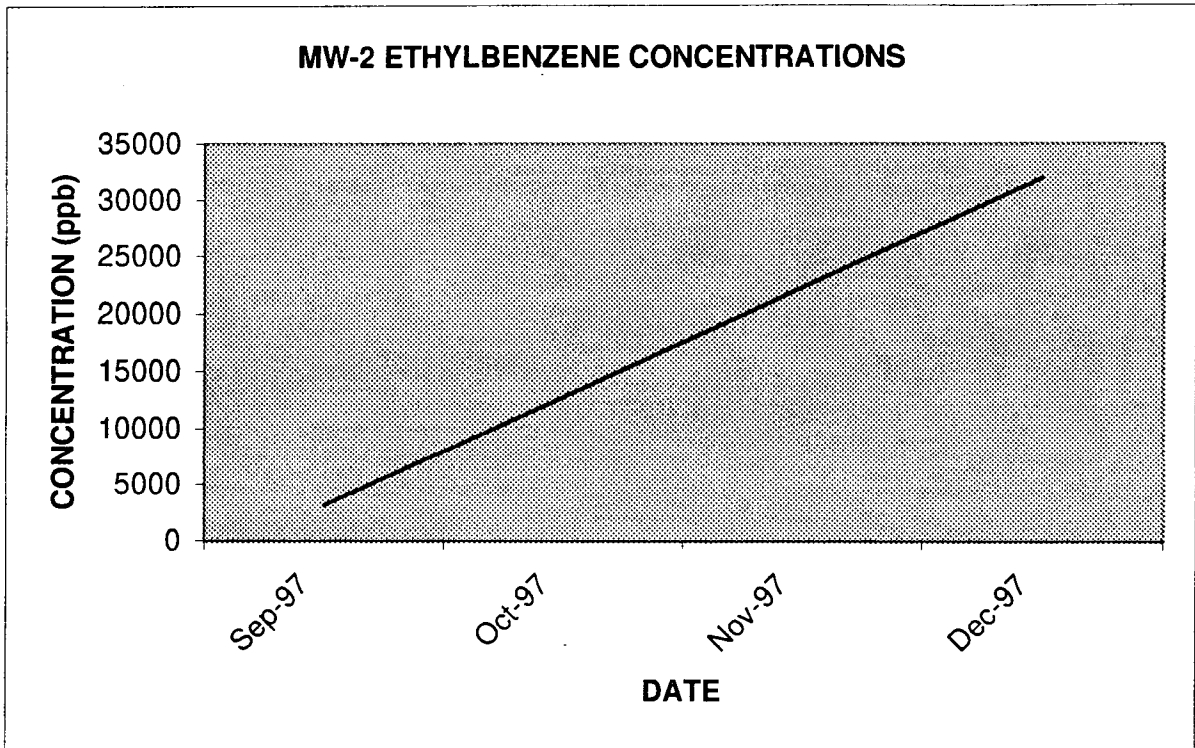
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604-96E.RI



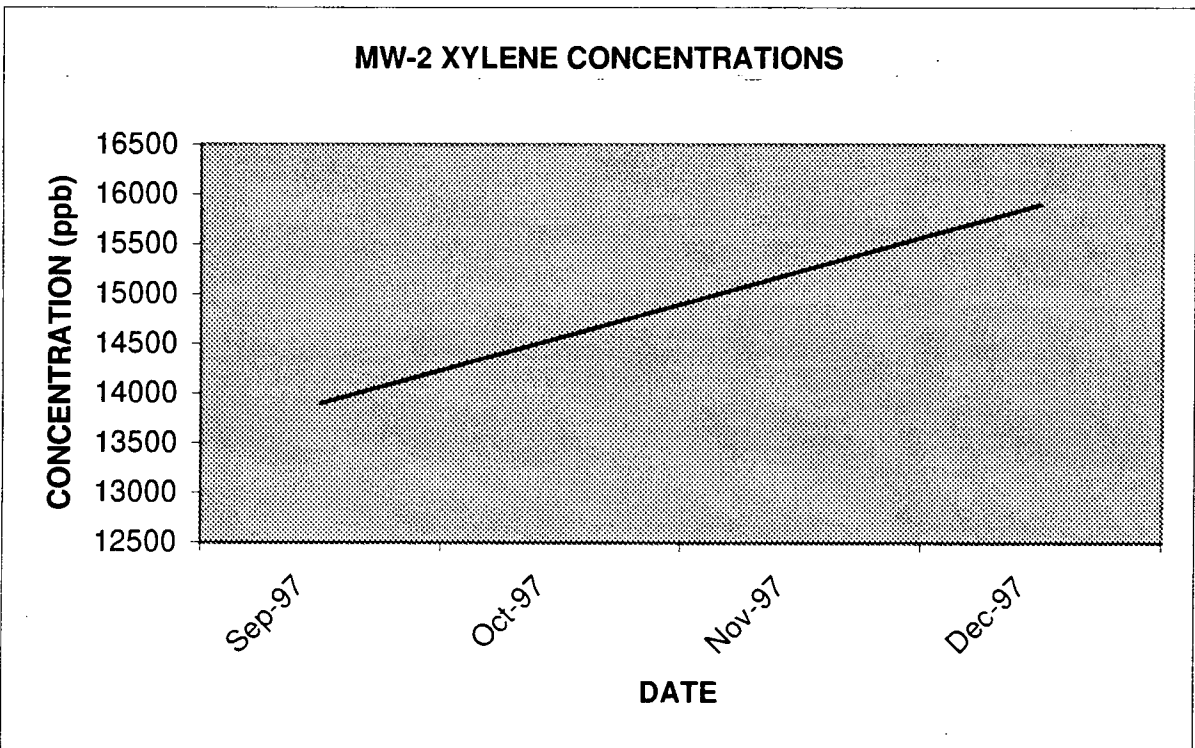
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604-96E.RI



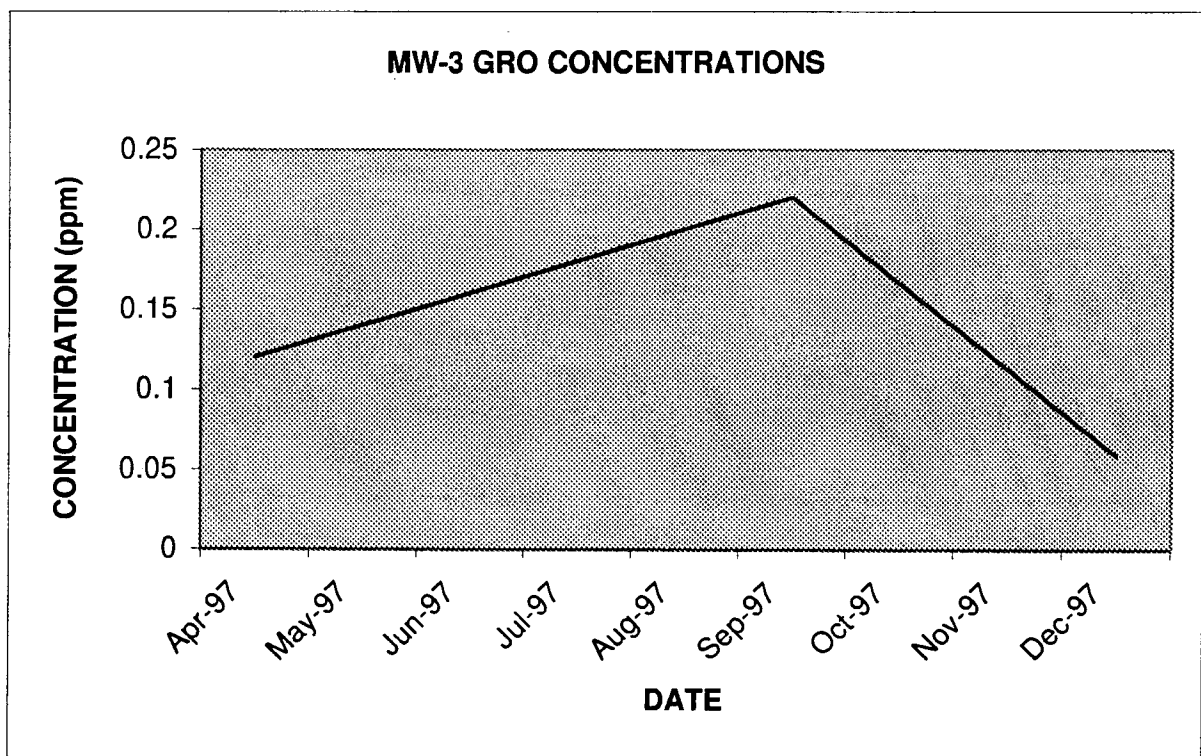
MW-2 ETHYLBENZENE CONCENTRATIONS



MW-2 XYLENE CONCENTRATIONS



JUNCTION FOOD N FUEL
604-96E.RI



APPENDIX C

LABORATORY ANALYTICAL REPORTS



728 GARFIELD AVENUE ■ DULUTH, MINNESOTA 55802
MN (218) 722-1911 ■ FAX (218) 722-3295

LAKE SUPERIOR LABORATORIES

A DIVISION OF TWIN PORTS TESTING, INC.

Date: 04/29/97

Client: Twin Ports Testing
Environmental Dept.
728 Garfield Avenue
Duluth, MN 55802

Attn: Eric Ealy

Phone: (218) 722-1911

Fax: (218) 722-3295

Chain of Custody #: 15219

Project: Junction Food & Fuel

Project ID: 604-96E.RI

LAB ID #	SAMPLE ID
1691-97LS	MW-1
1692-97LS	MW-3
1693-97LS	MW-4
1694-97LS	MW-5
1695-97LS	MW-6
1696-97LS	MW-7
1697-97LS	PW
1698-97LS	Field Blank (FB)
1699-97LS	Trip

Signature

Linda Thiry, Director
Tim Buck, Lab Manager

Wis. Certification Number: 998032310

Minn. Certification Number: 027-137-307

This cover page is the first of _____ pages

LABORATORY ANALYSIS REPORT

Client

Twin Ports Testing
 Environmental Dept.
 728 Garfield Avenue
 Duluth, MN 55802

Project: Junction Food & Fuel
Project ID: 604-96E.RI

Collected By: Eric Ealy
Delivered By: Eric Ealy

Chem. Lab ID

Sample Type

**Collected
 Received
 Reported**

**Sample
 Description**

1691-97LS	1692-97LS	1693-97LS
Water	Water	Water
04/17/97 04/17/97 04/29/97	04/17/97 04/17/97 04/29/97	04/17/97 04/17/97 04/29/97
MW-1	MW-3	MW-4

Analysis	Date Analyzed	RL	1691-97LS	1692-97LS	1693-97LS
Gasoline Range Organics	04/23/97	0.10 mg/l	0.40 mg/l	0.12 mg/l	ND
MTBE	04/23/97	0.0050 mg/l	ND	ND	ND
Benzene	04/23/97	0.0050 mg/l	0.070 mg/l	ND	ND
Toluene	04/23/97	0.0050 mg/l	0.026 mg/l	ND	ND
Ethylbenzene	04/23/97	0.0050 mg/l	0.018 mg/l	ND	ND
Total Xylenes	04/23/97	0.015 mg/l	0.14 mg/l	ND	ND

Remarks

RL ⇒ Reporting Limit
 ND ⇒ Not Detected at or above RL

LABORATORY ANALYSIS REPORT

Client

Twin Ports Testing
 Environmental Dept.
 728 Garfield Avenue
 Duluth, MN 55802

Project: Junction Food & Fuel
Project ID: 604-96E.RI

Collected By: Eric Ealy
Delivered By: Eric Ealy

Chem. Lab ID	1694-97LS	1695-97LS	1696-97LS
Sample Type	Water	Water	Water
Collected	04/17/97	04/17/97	04/17/97
Received	04/17/97	04/17/97	04/17/97
Reported	04/29/97	04/29/97	04/29/97
Sample Description	MW-5	MW-6	MW-7
Analysis	Date Analyzed	RL	
Gasoline Range Organics	04/23/97	0.10 mg/l	ND
MTBE	04/23/97	0.0050 mg/l	ND
Benzene	04/23/97	0.0050 mg/l	ND
Toluene	04/23/97	0.0050 mg/l	ND
Ethylbenzene	04/23/97	0.0050 mg/l	ND
Total Xylenes	04/23/97	0.015 mg/l	ND

Remarks

RL ⇒ Reporting Limit
 ND ⇒ Not Detected at or above RL

LABORATORY ANALYSIS REPORT

Client

Twin Ports Testing
 Environmental Dept.
 728 Garfield Avenue
 Duluth, MN 55802

Project: Junction Food & Fuel
Project ID: 604-96E.RI

Collected By: Eric Ealy
Delivered By: Eric Ealy

Chem. Lab ID	1697-97LS	1698-97LS	1699-97LS
Sample Type	Water	Water	Water
Collected	04/17/97	04/17/97	04/17/97
Received	04/17/97	04/17/97	04/17/97
Reported	04/29/97	04/29/97	04/29/97
Sample Description	PW	Field Blank (FB)	Trip

Analysis	Date Analyzed	RL	1697-97LS	1698-97LS	1699-97LS
Gasoline Range Organics	04/23/97	0.10 mg/l	0.43 mg/l	ND	ND
MTBE	04/23/97	0.0050 mg/l	ND	ND	ND
Benzene	04/23/97	0.0050 mg/l	0.24 mg/l	ND	ND
Toluene	04/23/97	0.0050 mg/l	0.10 mg/l	ND	ND
Ethylbenzene	04/23/97	0.0050 mg/l	ND	ND	ND
Total Xylenes	04/23/97	0.015 mg/l	ND	ND	ND

Remarks

RL ⇒ Reporting Limit
 ND ⇒ Not Detected at or above RL

LAKE SUPERIOR LABORATORIES

SAMPLE CONDITION UPON RECEIPT CHECKLIST

Project: June FdE

Client: TPT-E

Date Received: 4/17/97

COC #: 15219

Samples Received By: 4

A. Hanson
(Signature)

- | | | Yes | No |
|----|---|--------------|----------|
| 1. | Is there a chain of custody (COC) or letter stating information contained on a COC? | <u>←</u> | <u>—</u> |
| 2. | Is the date and time relinquished in agreement with that written on the letter or COC? | <u>X</u> | <u>—</u> |
| 3. | Do the samples received agree with the COC or accompanying paperwork (i.e. number of samples, matrices, sample tags, sample containers, analyses, etc.)? | <u>X</u> | <u>—</u> |
| 4. | Are all the samples within the holding times for requested analyses? Communicate any lapse of greater than 4 days beyond date of collection for VOA analysis. | <u>X</u> | <u>—</u> |
| 5. | Are all the sample containers intact (i.e., not broken, leaking, etc.)? | <u>X</u> | <u>—</u> |
| 6. | Did the samples arrive on ice? | <u>—</u> | <u>X</u> |
| | a) What temperature did the samples arrive at? | <u>3.3 c</u> | <u>—</u> |
| | b) Are the samples at the proper temperature? | <u>X</u> | <u>—</u> |
| 7. | Is there enough sample to do all the analyses? | <u>X</u> | <u>—</u> |
| 8. | Are the samples preserved correctly? | <u>X</u> | <u>—</u> |
| 9. | Are the VOA vials head-space free? | <u>X</u> | <u>—</u> |

'NO' Items Explained:

330 SO. CLEVELAND ST.
P.O. BOX 349
CAMBRIDGE, MN 55008

MIDWEST ANALYTICAL SERVICES

LAB
METRO
FAX

(612) 689-2175
(612) 444-9270
(612) 689-3660

MINNESOTA CERTIFIED LABORATORY
NUMBER 027-059-156



October 8, 1997

Hans Wronka
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

Project ID: 604-96E.RI
Chain of Custody: 22488
Date Sampled: 09-19-97
Date Received: 09-23-97
Matrix: Water

Sample Identification:

Lab ID:	20904	PW
	20905	Field Blank
	20906	Trip Blank
	20907	MW-1
	20908	MW-2
	20909	MW-3
	20910	MW-4
	20911	MW-5
	20912	MW-6
	20913	MW-7

Samples were analyzed for GRO by the Wisconsin Modified GRO procedure. The results are reported on the following page.

Sincerely,

A handwritten signature in black ink that reads "Chad Holznagel" with the date "10/8" written below it.

Chad Holznagel
Chemist

A handwritten signature in black ink that reads "Deb Marlton" with the date "10/10" written below it.

Deb Marlton
Biologist

A handwritten signature in black ink that reads "Brian Anderson" with the date "10/8" written below it.

Brian Anderson
Inorganic Group Leader

MIDWEST ANALYTICAL SERVICES

October 8, 1997

Page 2

COC 22488

Date Analyzed: 09-25-97

Parameter:	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Hydrocarbons as GRO
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
MDL:	10.0	1.0	1.0	1.0	3.0	0.1
20904 PW	BDL	27.3	BDL	BDL	BDL	BDL*
20905 Field Blank	BDL	BDL	BDL	BDL	BDL	BDL
20906 Trip Blank	BDL	BDL	BDL	BDL	BDL	BDL
20907 MW-1	< 250	4400	1430	994	6740	21.8
20908 MW-2	< 1000	23000	26500	3170	13900	94.7
20909 MW-3	BDL	8.4	1.2	9.7	10.2	0.22
20910 MW-4	BDL	BDL	BDL	BDL	BDL	BDL*
20911 MW-5	BDL	BDL	BDL	BDL	BDL	BDL
20912 MW-6	BDL	BDL	BDL	BDL	BDL	BDL
20913 MW-7	BDL	BDL	BDL	BDL	BDL	BDL

BDL = Below Detection Limit, MDL = Method Detection Limit

* = Peaks present in range but below detection limit.

MIDWEST ANALYTICAL SERVICES

October 8, 1997

Page 3

COC 22488

Parameter	20907 MW-1	20908 MW-2	20909 MW-3	20910 MW-4	Date Analyzed
Nitrate:N (mg/L)	< 0.5	< 0.5	< 0.5	< 0.5	09-23-97
Sulfate (mg/L)	< 0.5	< 0.5	< 0.5	< 0.5	09-23-97
Sulfide (mg/L)	0.010	0.018	0.012	< 0.010	09-25-97
Iron, Dissolved (mg/L)	156	142	42.1	50.6	10-07-97

Parameter	20911 MW-5	20912 MW-6	20913 MW-7	Date Analyzed
Nitrate:N (mg/L)	< 0.5	< 0.5	< 0.5	09-23-97
Sulfate (mg/L)	< 0.5	< 0.5	31.0	09-23-97
Sulfide (mg/L)	0.012	< 0.010	< 0.010	09-25-97
Iron, Dissolved (mg/L)	107	44.1	5.65	10-07-97

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

MN LAB ID : 055-999-334


Client: TWIN PORTS TESTING

Report Date : 12/30/97

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
770401-001	MW-1	12/17/97			
770401-002	MW-2	12/17/97			
770401-003	MW-3	12/17/97			
770401-004	MW-4	12/17/97			
770401-005	MW-6	12/17/97			
770401-006	MW-7	12/17/97			
770401-007	POTABLE WATER	12/17/97			
770401-008	FIELD BLANK	12/17/97			
770401-009	TRIP BLANK	12/17/97			

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 narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.


Approval Signature

12-30-97
Date

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Lab#:	TestGroupID:	Comment:
770401-001	GRO-W	Sample exhibits hydrocarbon pattern resembling gasoline. Early and late peaks were present outside of window.
770401-002	GRO-W	Sample exhibits hydrocarbon pattern resembling gasoline. Early and late peaks were present outside of window.
770401-003	GRO-W	Sample exhibits hydrocarbon pattern resembling gasoline. Early and late peaks were present outside of window.
770401-004	BTEX-W	Low level peaks present in chromatogram.

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : MW-1

Lab Sample Number : 770401-001

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Ferrous Iron-Dissolved	84000	5000	ug/L		12/22/97	HACH 8146	HACH 8146
Nitrogen, nitrate	< 0.050	0.050	mg/L		12/23/97	EPA 353.2	EPA 353.2
Sulfate	< 10	10	mg/L		12/24/97	EPA 375.2	EPA 375.2

Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	98	---	%Recov		12/19/97	SW846 8020
Benzene	5700	50	ug/l		12/19/97	SW846 8020
Ethylbenzene	1200	50	ug/l		12/19/97	SW846 8020
Toluene	1200	50	ug/l		12/19/97	SW846 8020
Xylenes, -m, -p	5900	100	ug/l		12/19/97	SW846 8020
Xylene, -o	2100	50	ug/l		12/19/97	SW846 8020

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	27000	1300	ug/l		12/19/97	WI Mod GRO
Blank Spike	105	---	%Recov		12/19/97	WI Mod GRO
Blank Spike Duplicate	100	---	%Recov		12/19/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/19/97	WI Mod GRO

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : MW-2

Lab Sample Number : 770401-002

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Ferrous Iron-Dissolved	62000	5000	ug/L		12/22/97	HACH 8146	HACH 8146
Nitrogen, nitrate	< 0.050	0.050	mg/L		12/23/97	EPA 353.2	EPA 353.2
Sulfate	< 10	10	mg/L		12/24/97	EPA 375.2	EPA 375.2

Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	98	---	%Recov		12/19/97	SW846 8020
Benzene	28000	200	ug/l		12/19/97	SW846 8020
Ethylbenzene	3400	200	ug/l		12/19/97	SW846 8020
Toluene	32000	200	ug/l		12/19/97	SW846 8020
Xylenes, -m, -p	11000	400	ug/l		12/19/97	SW846 8020
Xylene, -o	4900	200	ug/l		12/19/97	SW846 8020

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	110000	2500	ug/l		12/19/97	WI Mod GRO
Blank Spike	105	---	%Recov		12/19/97	WI Mod GRO
Blank Spike Duplicate	100	---	%Recov		12/19/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/19/97	WI Mod GRO

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : MW-3

Lab Sample Number : 770401-003

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Ferrous Iron-Dissolved	11000	2500	ug/L		12/22/97	HACH 8146	HACH 8146
Nitrogen, nitrate	< 0.050	0.050	mg/L		12/23/97	EPA 353.2	EPA 353.2
Sulfate	< 10	10	mg/L		12/24/97	EPA 375.2	EPA 375.2

Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	109	---	%Recov		12/18/97	SW846 8020
Benzene	4.6	1.0	ug/l		12/18/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/18/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/18/97	SW846 8020

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: WI Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	59	50	ug/l		12/18/97	WI Mod GRO
Blank Spike	105	---	%Recov		12/18/97	WI Mod GRO
Blank Spike Duplicate	100	---	%Recov		12/18/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/18/97	WI Mod GRO

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : MW-4

Lab Sample Number : 770401-004

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Ferrous Iron-Dissolved	31000	2500	ug/L		12/22/97	HACH 8146	HACH 8146
Nitrogen, nitrate	< 0.050	0.050	mg/L		12/23/97	EPA 353.2	EPA 353.2
Sulfate	13	10	mg/L		12/24/97	EPA 375.2	EPA 375.2

Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	105	---	%Recov		12/19/97	SW846 8020
Benzene	< 1.0	1.0	ug/l		12/19/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/19/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/19/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/19/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/19/97	SW846 8020

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/19/97	WI Mod GRO
Blank Spike	105	---	%Recov		12/19/97	WI Mod GRO
Blank Spike Duplicate	100	---	%Recov		12/19/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/19/97	WI Mod GRO

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : MW-6

Lab Sample Number : 770401-005

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Ferrous Iron-Dissolved	15000	2500	ug/L		12/22/97	HACH 8146	HACH 8146
Nitrogen, nitrate	< 0.050	0.050	mg/L		12/23/97	EPA 353.2	EPA 353.2
Sulfate	15	10	mg/L		12/24/97	EPA 375.2	EPA 375.2

Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/22/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	102	---	%Recov		12/22/97	SW846 8020
Benzene	1.3	1.0	ug/l		12/22/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/22/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/22/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/22/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/22/97	SW846 8020

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/22/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/22/97	WI Mod GRO
Blank Spike	102	---	%Recov		12/22/97	WI Mod GRO
Blank Spike Duplicate	103	---	%Recov		12/22/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/22/97	WI Mod GRO

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : MW-7

Lab Sample Number : 770401-006

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Ferrous Iron-Dissolved	< 100	100	ug/L		12/22/97	HACH 8146	HACH 8146
Nitrogen, nitrate	< 0.050	0.050	mg/L		12/23/97	EPA 353.2	EPA 353.2
Sulfate	18	10	mg/L		12/24/97	EPA 375.2	EPA 375.2

Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/22/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	103	---	%Recov		12/22/97	SW846 8020
Benzene	< 1.0	1.0	ug/l		12/22/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/22/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/22/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/22/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/22/97	SW846 8020

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/22/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/22/97	WI Mod GRO
Blank Spike	102	---	%Recov		12/22/97	WI Mod GRO
Blank Spike Duplicate	103	---	%Recov		12/22/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/22/97	WI Mod GRO

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : POTABLE WATER

Lab Sample Number : 770401-007

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Organic Results

Preservation Date:

MDH 465E VOLATILES - WATER

Prep Method: SW846 5030 Prep Date: 12/24/97 Analyst: MAD

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 5.0	5.0	ug/L		12/24/97	SW846 8260
Allyl Chloride	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Benzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromochloromethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromodichloromethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromoform	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromomethane	< 2.0	2.0	ug/L		12/24/97	SW846 8260
2-Butanone	< 5.0	5.0	ug/L		12/24/97	SW846 8260
s-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
t-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
n-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Carbon tetrachloride	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Chloroform	1.1	1.0	ug/L		12/24/97	SW846 8260
Chlorobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Chlorodibromomethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Chloroethane	< 2.0	2.0	ug/L		12/24/97	SW846 8260
Chloromethane	< 2.0	2.0	ug/L		12/24/97	SW846 8260
2-Chlorotoluene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
4-Chlorotoluene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
1,2-Dibromo-3-chloropropane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
1,2-Dibromoethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Dibromomethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
1,3-Dichlorobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
1,4-Dichlorobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : POTABLE WATER

Lab Sample Number : 770401-007

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

1,2-Dichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dichlorodifluoromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dichlorofluoromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
1,2-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,3-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
2,2-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
cis-1,3-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Ethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Diethyl ether	< 5.0	5.0	ug/L	12/24/97	SW846 8260
Fluorotrichloromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Hexachlorobutadiene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Isopropylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
p-Isopropyltoluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Methylene chloride	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Methyl-2-pentanone	< 5.0	5.0	ug/L	12/24/97	SW846 8260
Methyl-tert-butyl-ether	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Naphthalene	< 2.0	2.0	ug/L	12/24/97	SW846 8260
n-Propylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Styrene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Tetrachloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Toluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : POTABLE WATER

Lab Sample Number : 770401-007

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

1,1,2-Trichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Trichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,3-Trichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Tetrahydrofuran	< 5.0	5.0	ug/L	12/24/97	SW846 8260
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Vinyl chloride	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Xylenes, -m, -p	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Xylene, -o	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Bromofluorobenzene	103	--	%Recov	12/24/97	SW846 8260
Dibromofluoromethane	101	--	%Recov	12/24/97	SW846 8260
Toluene-d8	109	--	%Recov	12/24/97	SW846 8260

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : FIELD BLANK

Lab Sample Number : 770401-008

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/22/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/22/97	WI Mod GRO
Blank Spike	102	---	%Recov		12/22/97	WI Mod GRO
Blank Spike Duplicate	103	---	%Recov		12/22/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/22/97	WI Mod GRO

Organic Results

Preservation Date:

MDH 465E VOLATILES - WATER

Prep Method: SW846 5030 Prep Date: 12/24/97 Analyst: MAD

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	8.8	5.0	ug/L		12/24/97	SW846 8260
Allyl Chloride	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Benzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromochloromethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromodichloromethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromoform	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromomethane	< 2.0	2.0	ug/L		12/24/97	SW846 8260
2-Butanone	< 5.0	5.0	ug/L		12/24/97	SW846 8260
s-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
t-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
n-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Carbon tetrachloride	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Chloroform	2.5	1.0	ug/L		12/24/97	SW846 8260
Chlorobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Chlorodibromomethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : FIELD BLANK

Lab Sample Number : 770401-008

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Chloroethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Chloromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
2-Chlorotoluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Chlorotoluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dibromo-3-chloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dibromoethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dibromomethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dichlorodifluoromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dichlorofluoromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
1,2-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,3-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
2,2-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
cis-1,3-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Ethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Diethyl ether	< 5.0	5.0	ug/L	12/24/97	SW846 8260
Fluorotrichloromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Hexachlorobutadiene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Isopropylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
p-Isopropyltoluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Methylene chloride	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Methyl-2-pentanone	< 5.0	5.0	ug/L	12/24/97	SW846 8260
Methyl-tert-butyl-ether	< 1.0	1.0	ug/L	12/24/97	SW846 8260

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : FIELD BLANK

Lab Sample Number : 770401-008

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Naphthalene	< 2.0	2.0	ug/L	12/24/97	SW846 8260
n-Propylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Styrene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Tetrachloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Toluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Trichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,3-Trichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Tetrahydrofuran	< 5.0	5.0	ug/L	12/24/97	SW846 8260
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Vinyl chloride	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Xylenes, -m, -p	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Xylene, -o	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Bromofluorobenzene	104	--	%Recov	12/24/97	SW846 8260
Dibromofluoromethane	100	--	%Recov	12/24/97	SW846 8260
Toluene-d8	108	--	%Recov	12/24/97	SW846 8260

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- Analytical Report -

Project Name : -

Project Number : 604-96E.RI

Field ID : TRIP BLANK

Lab Sample Number : 770401-009

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/22/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/22/97	WI Mod GRO
Blank Spike	102	---	%Recov		12/22/97	WI Mod GRO
Blank Spike Duplicate	103	---	%Recov		12/22/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/22/97	WI Mod GRO

Organic Results

Preservation Date:

MDH 465E VOLATILES - WATER

Prep Method: SW846 5030 Prep Date: 12/24/97 Analyst: MAD

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 5.0	5.0	ug/L		12/24/97	SW846 8260
Allyl Chloride	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Benzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromochloromethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromodichloromethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromoform	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Bromomethane	< 2.0	2.0	ug/L		12/24/97	SW846 8260
2-Butanone	< 5.0	5.0	ug/L		12/24/97	SW846 8260
s-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
t-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
n-Butylbenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Carbon tetrachloride	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Chloroform	3.5	1.0	ug/L		12/24/97	SW846 8260
Chlorobenzene	< 1.0	1.0	ug/L		12/24/97	SW846 8260
Chlorodibromomethane	< 1.0	1.0	ug/L		12/24/97	SW846 8260

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- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : TRIP BLANK

Lab Sample Number : 770401-009

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Chloroethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Chloromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
2-Chlorotoluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Chlorotoluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dibromo-3-chloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dibromoethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dibromomethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dichlorodifluoromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Dichlorofluoromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
1,2-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,3-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
2,2-Dichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
cis-1,3-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Ethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Diethyl ether	< 5.0	5.0	ug/L	12/24/97	SW846 8260
Fluorotrichloromethane	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Hexachlorobutadiene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Isopropylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
p-Isopropyltoluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Methylene chloride	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Methyl-2-pentanone	< 5.0	5.0	ug/L	12/24/97	SW846 8260
Methyl-tert-butyl-ether	< 1.0	1.0	ug/L	12/24/97	SW846 8260

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



Corporate Office & Laboratory
1795 Industrial Drive
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
1-800-7-ENCHEM

- Analytical Report -

Project Name :

Project Number : 604-96E.RI

Field ID : TRIP BLANK

Lab Sample Number : 770401-009

MDH LAB ID : 055-999-334

Client : TWIN PORTS TESTING

Report Date : 12/30/97

Collection Date : 12/17/97

Matrix Type : WATER

Naphthalene	< 2.0	2.0	ug/L	12/24/97	SW846 8260
n-Propylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Styrene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Tetrachloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Toluene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Trichloroethene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
1,2,3-Trichloropropane	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Tetrahydrofuran	< 5.0	5.0	ug/L	12/24/97	SW846 8260
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	12/24/97	SW846 8260
Vinyl chloride	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Xylenes, -m, -p	< 2.0	2.0	ug/L	12/24/97	SW846 8260
Xylene, -o	< 1.0	1.0	ug/L	12/24/97	SW846 8260
4-Bromofluorobenzene	107	---	%Recov	12/24/97	SW846 8260
Dibromofluoromethane	105	---	%Recov	12/24/97	SW846 8260
Toluene-d8	115	---	%Recov	12/24/97	SW846 8260

Company Name: Twln Parts Testing
 Branch or Location: Superior
 Project Contact: Hans Wronka
 Telephone: 715-392-7114
 Project Number: 604-96E.RI
 Project Name: _____
 Project Location: _____
 Sampled By (Print): Hans Wronka
 Regulatory Program (circle): UST RCRA CLP SDWA
 NPDES/WPDES CAA NR _____
 Other _____
 NR720 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
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802 Deming Way
 Madison, WI 53717
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 FAX 715-392-5843

CHAIN OF CUSTODY

15823

Page 1 of 1
 P.O. # 5655 Quote # _____
 Mail Report To: Hans Wronka
 Company: Twln Parts Testing
 Address: 1301 N 3rd St.
Superior, WI 54880
 Invoice # _____
 Company: same as above
 Address: _____
 Mail Invoice To: _____

FILTERED? (YES/NO) _____
 PRESERVATION (CODE)* _____
 ANALYSES REQUESTED
TOX
12-17-97
Geo/BTEX
Fe, NO3, SO4
VOC

REC'D JAN 01 1998

FIELD ID	SAMPLE DESCRIPTION	COLLECTION		FIELD SCREEN	MATRIX	GOOD COND.	TOTAL BOTTLES	COMMENTS	LABORATORY NUMBER
		DATE	TIME						
MW-1		12/17		X	X		3.40 mLs	1-500mL	-001
MW-2				X	X		1.250 mL		-002
MW-3				X	X				-003
MW-4				X	X				-004
MW-6				X	X				-005
MW-7				X	X				-006
Potable Water					X		3.40 mL		-007
Field Blank				X					-008
Strip Blank									-009

Preservation Code
 A-Nitro B-HCl C-H2SO4
 D-None E-EnCore F-Methanol
 G-None H-Other (Indicate)

Must use En Chem's methanol.
 Include volume of methanol added and
 mark the appropriate samples.

Relinquished By: <u>[Signature]</u>	Date/Time: <u>17 Dec 1997 1610</u>	Received By: _____	Date/Time: _____	En Chem Project No. <u>770401</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Sample Receipt Temp. <u>ROI</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Sample Receipt pH (Wet/Metals) _____
Relinquished By: _____	Date/Time: _____	Received By (En Chem): <u>[Signature]</u>	Date/Time: <u>1/10/98</u>	