WISCONSIN
DEPT. OF NATURAL RESOURCES

**State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES**

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Regional Headquarters
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8483
TDD 414-263-8713

December 14, 1999

Mr. Bill Immich
Director of Public Works
P.O. Box 107
Plymouth, Wisconsin 53073

SUBJECT: Request for closure, City of Plymouth Municipal Garage, 1004 Valley Road, Plymouth, Wisconsin. BRR-LUST FID#460153870.

Dear Mr. Immich:

At the request of your environmental consultant, we have reviewed the referenced case file for closure. Based on the information presented, we concur with environmental consultant's recommendation that no further action is necessary. The department reserves the right to reopen this case pursuant to s. NR726.09, Wisconsin Administrative Code (WAC), should additional information regarding site conditions indicate contamination on or from the site poses a threat to public health, safety or welfare or the environment.

To complete the closure of this site, you must place a groundwater use restriction on the property deed at the county register of deeds office which specifies the legal description of the property, the location, type, and concentration of the contaminants and includes the following language:

> Natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property. Construction of wells where water quality exceeds the drinking water standards in ch. NR809 is restricted by chs. NR811 and NR812. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply. Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater to determine what specific requirements are applicable prior to constructing or reconstructing a well on this property.

Within 60 days all of the groundwater monitoring wells at the site must be abandoned in accordance with WAC NR 141 and the completed abandonment forms must be submitted to the department. Once the department receives the abandonment forms and confirmation the restriction was placed on the deed, this case will be tracked as closed on our computer tracking system. If you have any questions about this letter, please call me at 414-263-8589.

Sincerely,

Gina Keenan
Hydrogeologist

c: Kapur & Associates, Inc.
SER case file

VOL 1741 PAGE 203

1572407

SHEBOYGAN COUNTY, WI
RECORDED ON
06-08-2000 11:25 AM
DARLENE J. NAVIS
REGISTER OF DEEDS
RECORDING FEE: 22.00
TRANSFER FEE:
038413 6

Document Number | GROUNDWATER USE RESTRICTION

Declaration of Restrictions

In Re: See Description Attached Hereto

Recording Area

Name and Return Address

**RONALD W. DAMP**
**ATTORNEY AT LAW**
**PLYMOUTH, WISCONSIN 53073**

Parcel Identification Number (PIN)

STATE OF WISCONSIN )
) ss
COUNTY OF SHEBOYGAN )

WHEREAS, the City of Plymouth is the owner of the above-described property.

WHEREAS, one or more [see Tables 1 and 2 for type of contaminant(s)] discharges have occurred on this property. Benzene (see Table 2 for Type of contaminants)-contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards existed on this property at the following location(s) on the following date(s): see Table 1 for description of type and concentration of groundwater contamination and with the date and location or locations on the property where this groundwater contamination was found and soil contamination existed on the property at the following location(s) on the following dates: see Table 2 description of type and concentration of residual soil contamination with the date and location where samples were taken. See attached maps (Figures 1 and 2) that show monitoring well and boring/sampling locations.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further groundwater or soil remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140 groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809 is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

> Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or it successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

[Optional Provision:] If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

[Optional provision only required if the property is owned by a corporation, partnership or governmental entity:] By signing this document, William B. Kiley, Mayor asserts that he/she is duly authorized to sign this document on behalf of the City of Plymouth.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 6th day of June, 2000.

Signature: _____

Printed Name: William B. Kiley, Mayor

Subscribed and sworn to before me
this 6th day of June, 2000

_____
Notary Public, State of Wisconsin
Ronald W. Damp
My commission is permanent

This document was drafted by the Wisconsin Department of Natural Resources.
Publication: RR606

F:\COMP3-D.DL5\PLYMOUTH\CITYGARG\Closure\gw_use_restrct.doc

Description of Municipal Garage Property

Part of the Southeast ¼ of the Northeast ¼ Section 27, Township 15 North, Range 21 East, City of Plymouth, Sheboygan County, Wisconsin.

Commencing at the intersection of the North right of way line of Valley Road and the West Right of way line of Commerce Street, said point marking the point of beginning, thence North along said Westerly right of way line a distance of 570.58 feet, thence S 89° 38' 25"W a distance of 747.18 feet to a point 150 feet East of the East right of way line of South Street, thence S 0° 27' 16" W parallel with the East right of way line of South Street a distance of 192.00 feet, thence N 89° 56' 18" E a distance of 339.77 feet, thence South 307.92 feet to the north right of way line of Valley Road, thence along said north right of way line to the point of beginning.

**Legibility Impaired**

**Table 1. Residual Groundwater Contamination**
City of Plymouth-Municipal Garage
1004 Valley Road
Plymouth, Wisconsin

| Description | Concentration | Sample Location/Description | Date |
|---|---|---|---|
| DRO (ppm) | | | |
| | 110 | MW-1/ UST Location B | 10/28/98 |
| | 41 | MW-2/Southwest-UST Location B | 10/29/98 |
| | 78 | MW-4/ Northwest-UST Location B | 10/28/98 |
| | 63 | MW-6/South of Valley Road | 10/29/98 |
| | 57 | MW-8/South of Valley Road | 10/29/98 |
| | 110 | MW-9/UST Location B | 10/28/98 |
| | 65 | MW-11/Southeast-UST Location B | 10/28/98 |
| | 250 | MW-1A/UST Location A | 7/23/98 |
| GRO (ppm) | | | |
| | 420 | MW-1/ UST Location B | 10/28/98 |
| | 97 | MW-3/South-UST Location B | 10/29/98 |
| | 39 | MW-9/UST Location B | 10/28/98 |
| Benzene (ppb) | | | |
| | 18 | MW-1/ UST Location B | 10/28/98 |
| | 24 | MW-3/ South-UST Location B | 10/29/98 |
| | 17 | MW-9/ UST Location B | 10/28/98 |
| Toluene (ppb) | | | |
| | 4.50 | MW-1/ UST Location B | 10/28/98 |
| | 0.70 | MW-3/ South-UST Location B | 10/29/98 |
| | 0.80 | MW-9/ UST Location B | 10/28/98 |
| | 0.30 | MW-10/Southeast-UST Location B | 10/29/98 |
| Ethylbenzene (ppb) | | | |
| | 20 | MW-1/ UST Location B | 10/28/98 |
| | 18 | MW-3/ South-UST Location B | 10/29/98 |
| | 5.8 | MW-9/ UST Location B | 10/28/98 |
| O-xylenes (ppb) | | | |
| | 3.0 | MW-1/ UST Location B | 10/28/98 |
| | 0.90 | MW-9/ UST Location B | 10/28/98 |
| p,m-xylenes (ppb) | | | |
| | 33.0 | MW-1/ UST Location B | 10/28/98 |
| | 5.6 | MW-9/ UST Location B | 10/28/98 |
| 1,2,4-Trimethylbenzene (ppb) | | | |
| | 37 | MW-1/ UST Location B | 10/28/98 |
| | 9.9 | MW-3/ South-UST Location B | 10/29/98 |
| | 4.5 | MW-9/ UST Location B | 10/28/98 |
| 1,3,5-Trimethylbenzene (ppb) | | | |
| | 11 | MW-1/ UST Location B | 10/28/98 |
| | 1.1 | MW-9/ UST Location B | 10/28/98 |

Notes:

GRO = Gasoline Range Organics; DRO = Diesel Range Organic Organics; ppm = parts per million; ppb = parts per billion.

| Table 2. Residual Soil Contamination<br>City of Plymouth-Municipal Garage<br>1004 Valley Road<br>Plymouth, Wisconsin | | |
|---|---|---|
| **Description** | **Sample Location/Description** | **Date** |
| PAHs | Boring A-1/UST Location A | 12/12/95 |
| PAHs | Boring A-4/ UST Location A | 12/12/95 |
| PAHs | Boring B-1A/UST Location A | 5/16/96 |
| PAHs | Boring B-1/South-UST Location B | 12/11/95 |
| PAHs | Boring B-2/East-UST Location B | 12/11/95 |
| GRO, VOCs, PAHs | Boring B-3/North-USTLocation B | 12/11/95 |
| GRO, DRO, VOC, PAHs | Boring B-4/West-USTLocation B | 12/11/95 |
| Total VOCs* | Boring B-5/South-UST Location B | 12/11/95 |
| Total VOCs* | Boring B-6/West-UST Location B | 12/12/95 |
| VOCs | Boring B-9/Southeast-UST Location B | 5/16/96 |
| PAHs | Boring B-10/Southwest-UST Location B | 5/16/96 |
| GRO, DRO, VOC, PAHs | Boring B-11/South-UST Location B | 5/16/96 |
| GRO, VOCs | Boring B-12/West-UST Location B | 5/16/96 |
| DRO | Boring B-13/Northwest-UST Location B | 5/16/96 |
| DRO, VOCs, PAHs, | Boring B-14/UST Location B | 5/16/96 |
| GRO, DRO, VOCs, PAHs | Boring B-15/Northwest-UST Location B | 5/16/96 |
| VOCs | Boring B-16/North-UST Location B | 5/16/96 |
| GRO, DRO, VOCs, PAHs | Boring B-17/Southwest-UST Location B | 5/16/96 |
| DRO, VOCs | Boring B-18/South of Valley Road | 10/31/96 |
| GRO, VOCs | Boring B-19/South of Valley Road | 10/31/96 |
| GRO, DRO, PVOCs | Post-Excavation Sample B-1/Northwest-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample B-2/Northwest-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample B-3/West-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample B-4/West-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample B-5/West-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample W-1/Northwest-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample W-2/Northwest-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample W-3/UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample W-4/Southwest-UST Location B | 11/18/97 |
| GRO, DRO, PVOCs | Post-Excavation Sample W-5/ Southwest-UST Location B | 11/18/97 |
| DRO | Post-Excavation Sample W-6/West-UST Location B | 11/18/97 |

Notes:

* = Maximum Photoionization Detector Values; GRO = Gasoline Range Organics; DRO = Diesel Range Organic Organics; VOCs = Volatile Range Organic Compounds; PVOCs = Petroleum Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons.

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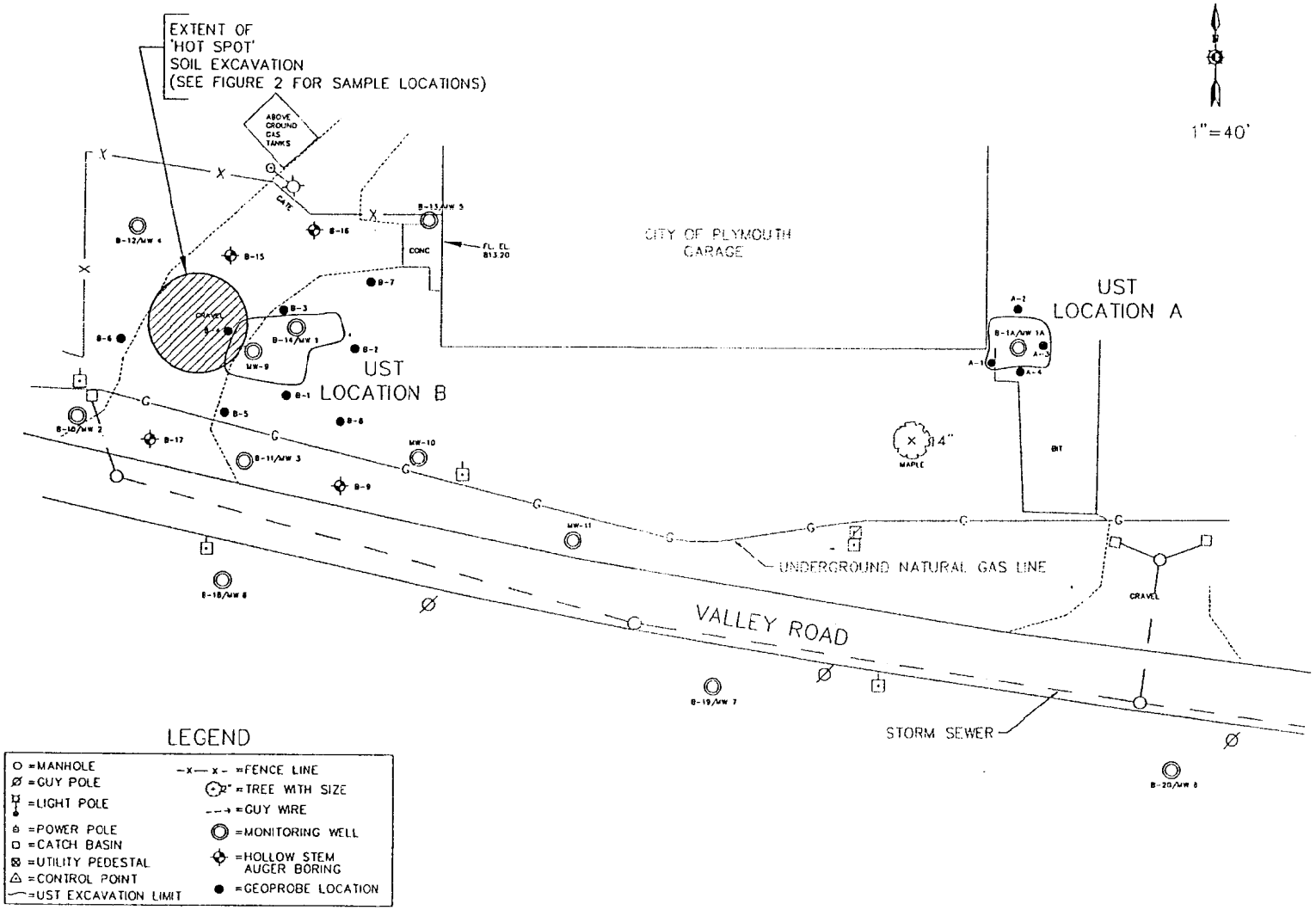


FIGURE 1: SOIL BORING AND MONITORING WELL LOCATION MAP

DESIGNED BY:
DRAWN BY: K.S.
CHECKED BY: C.C.
APPROVED BY:
DATE: 11/13/98
SCALE: 1"=40'

NO. | REVISIONS | DATE

SCALE
BAR ON ORIGINAL DRAWING IS 40 SCALE
0 20 40

K&A
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
(414) 351-6855
FAX 414-351-4117

CITY OF PLYMOUTH MUNICIPAL GARAGE
1004 VALLEY ROAD
PLYMOUTH, WI 53073

PROJECT NO.
SHEET NO.

F:\V-DELLSON\PLYMOUTH\330GARAG

FILENAME: \Plymouth\330GARAG\CADAT\330fig1 DATE & TIME LAST EDIT 03/30/00 Time 18:08 PLOT DATE & TIME: 07/10/98 Time 09:20 DWGSCALE: 1= 20.00

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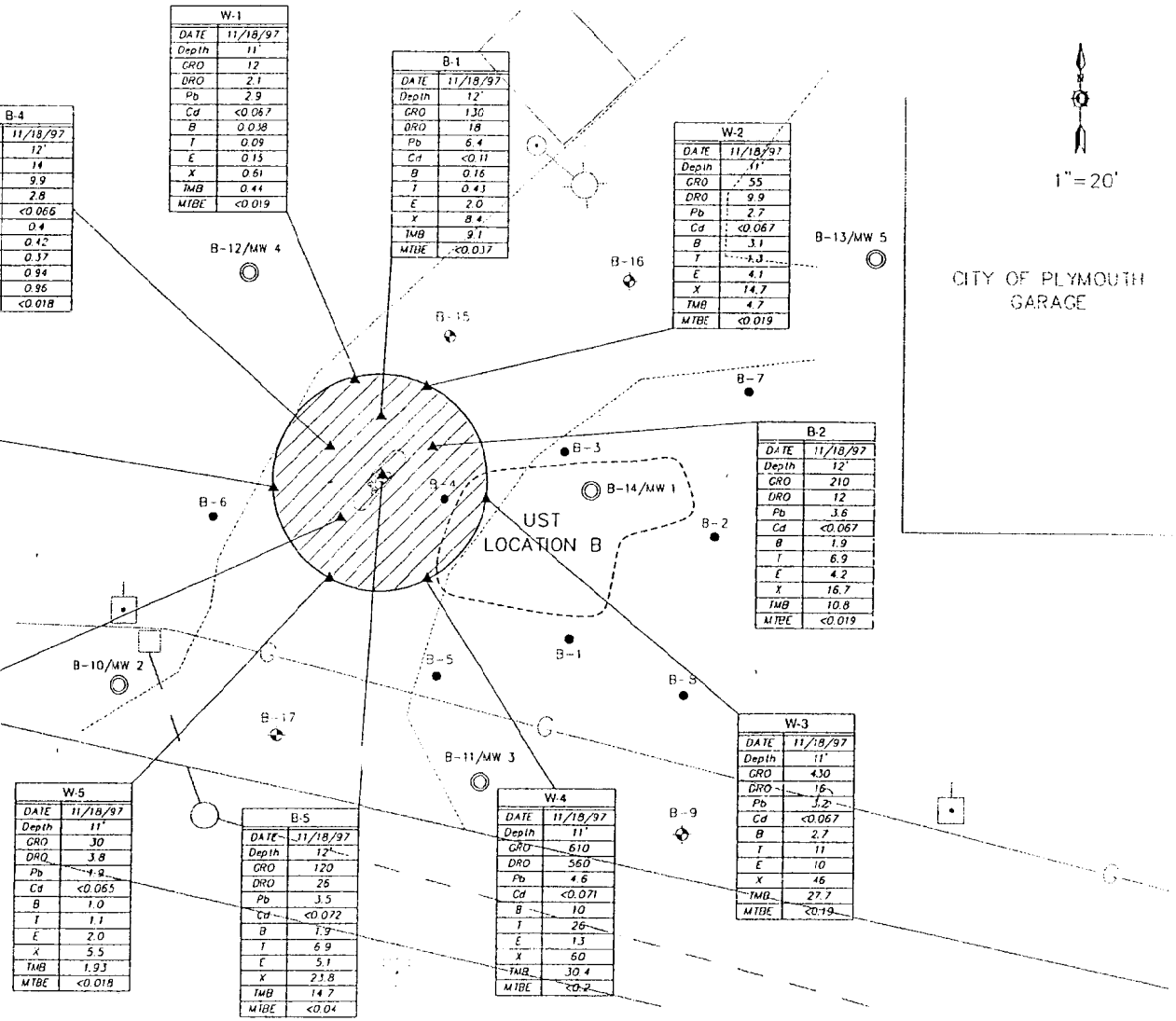
## ABBREVIATIONS:

GRO = Gasoline Range Organics (ppm)
DRO = Diesel Range Organics (ppm)
Pb = Total Lead (ppm)
Cd = Cadmium (ppm)
B = Benzene (ppm)
T = Toluene (ppm)
E = Ethylbenzene (ppm)
X = Total Xylenes (ppm)
TMB = Total Trimethylbenzenes (ppm)
MTBE = Methyl Tertiary Butyl Ether (ppm)
ppm = Parts Per Million

NOTE: PAH Results are not shown




| W-1 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 11' |
| GRO | 12 |
| DRO | 2.1 |
| Pb | 2.9 |
| Cd | <0.067 |
| B | 0.038 |
| T | 0.09 |
| E | 0.13 |
| X | 0.61 |
| TMB | 0.44 |
| MTBE | <0.019 |

| B-1 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 12' |
| GRO | 130 |
| DRO | 18 |
| Pb | 6.4 |
| Cd | <0.11 |
| B | 0.16 |
| T | 0.43 |
| E | 2.0 |
| X | 8.4 |
| TMB | 9.1 |
| MTBE | <0.037 |

| W-2 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 11' |
| GRO | 55 |
| DRO | 9.9 |
| Pb | 2.7 |
| Cd | <0.067 |
| B | 3.1 |
| T | 4.3 |
| E | 4.1 |
| X | 14.7 |
| TMB | 4.7 |
| MTBE | <0.019 |

| B-4 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 12' |
| GRO | 14 |
| DRO | 9.9 |
| Pb | 2.8 |
| Cd | <0.066 |
| B | 0.4 |
| T | 0.42 |
| E | 0.37 |
| X | 0.94 |
| TMB | 0.96 |
| MTBE | <0.018 |

| W-6 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 11' |
| GRO | NA |
| DRO | 3.7 |
| Pb | 3.7 |
| Cd | <0.068 |
| B | NA |
| T | NA |
| E | NA |
| X | NA |
| TMB | NA |
| MTBE | NA |

| B-2 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 12' |
| GRO | 210 |
| DRO | 12 |
| Pb | 3.6 |
| Cd | <0.067 |
| B | 1.9 |
| T | 6.9 |
| E | 4.2 |
| X | 16.7 |
| TMB | 10.8 |
| MTBE | <0.019 |

| B-3 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 12' |
| GRO | 180 |
| DRO | 11 |
| Pb | 5.6 |
| Cd | <0.07 |
| B | 1.2 |
| T | 3.4 |
| E | 3.8 |
| X | 15.5 |
| TMB | 14.6 |
| MTBE | <0.2 |

| W-3 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 11' |
| GRO | 430 |
| DRO | 16 |
| Pb | 3.2 |
| Cd | <0.067 |
| B | 2.7 |
| T | 11 |
| E | 10 |
| X | 46 |
| TMB | 27.7 |
| MTBE | <0.19 |

| W-5 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 11' |
| GRO | 30 |
| DRO | 3.8 |
| Pb | 4.2 |
| Cd | <0.065 |
| B | 1.0 |
| T | 1.1 |
| E | 2.0 |
| X | 5.5 |
| TMB | 1.93 |
| MTBE | <0.018 |

| B-5 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 12' |
| GRO | 120 |
| DRO | 26 |
| Pb | 3.5 |
| Cd | <0.072 |
| B | 1.9 |
| T | 6.9 |
| E | 5.1 |
| X | 23.8 |
| TMB | 14.7 |
| MTBE | <0.04 |

| W-4 | |
|---|---|
| DATE | 11/18/97 |
| Depth | 11' |
| GRO | 610 |
| DRO | 560 |
| Pb | 4.6 |
| Cd | <0.071 |
| B | 10 |
| T | 26 |
| E | 13 |
| X | 60 |
| TMB | 30.4 |
| MTBE | <0.2 |

## LEGEND

- O = MANHOLE
- Ø = GUY POLE
- = LIGHT POLE
- = POWER POLE
- = CATCH BASIN
- = UTILITY PEDESTAL
- = CONTROL POINT
- = UST EXCAVATION LIMIT
- —x— = FENCE LINE
- = TREE WITH SIZE
- --→ = GUY WIRE
- = MONITORING WELL
- = HOLLOW STEM AUGER BORING
- ● = GEOPROBE LOCATION

FIGURE 2: LABORATORY VERIFICATION SAMPLE RESULTS MAP

SCALE: BAR ON ORIGINAL DRAWING IS 40 SCALE (0 10 20 40)

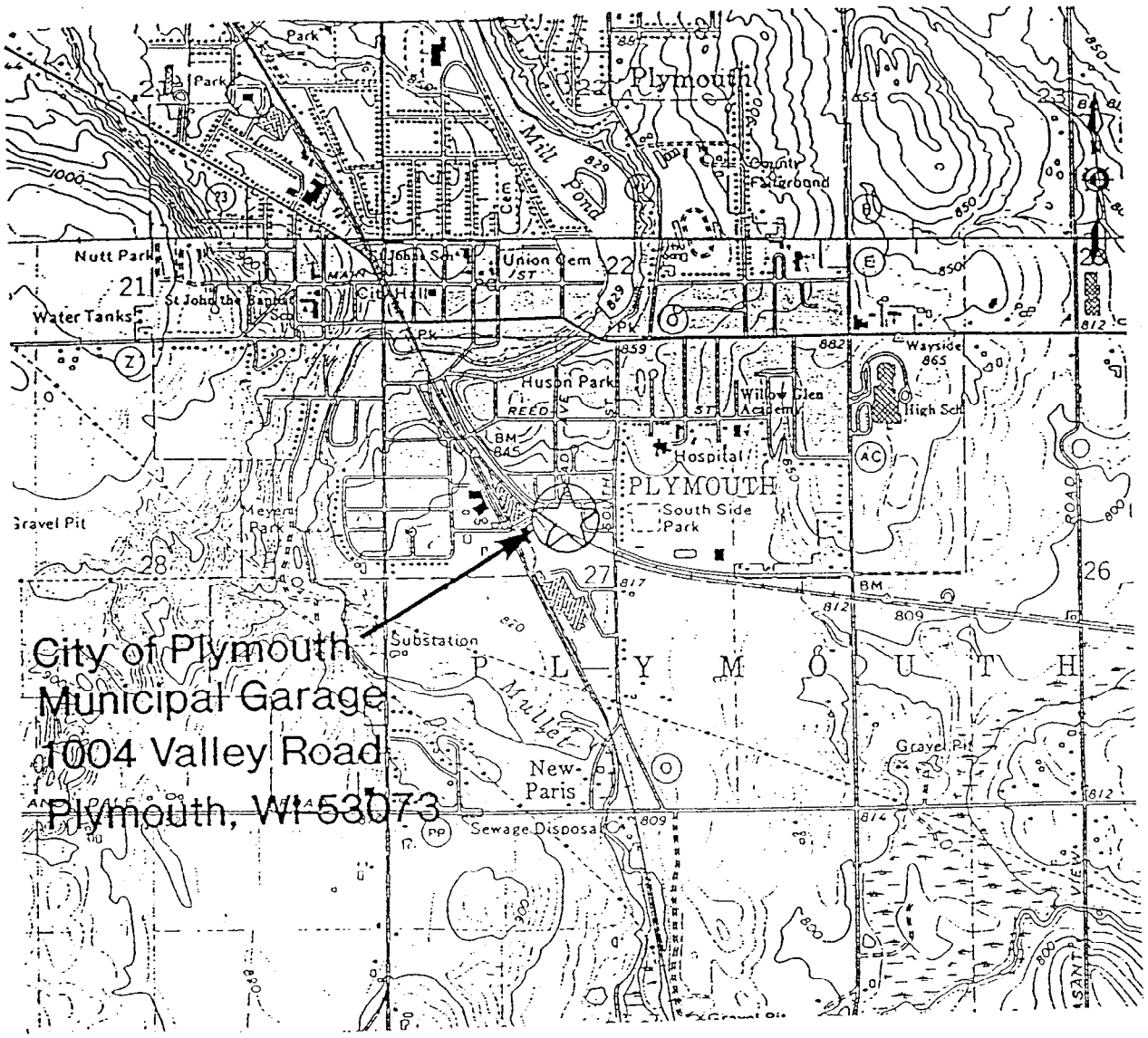
DESIGNED BY: DRAWN BY: CHECKED BY: TG APPROVED BY: DATE: 12/2/98 SCALE: 1"=40'

REVISIONS | NO | DATE

KAPUR & ASSOCIATES, INC. CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN (414) 351-6868 FAX 414-351-4117

CITY OF PLYMOUTH MUNICIPAL GARAGE
1004 VALLEY ROAD
PLYMOUTH, WI 53073

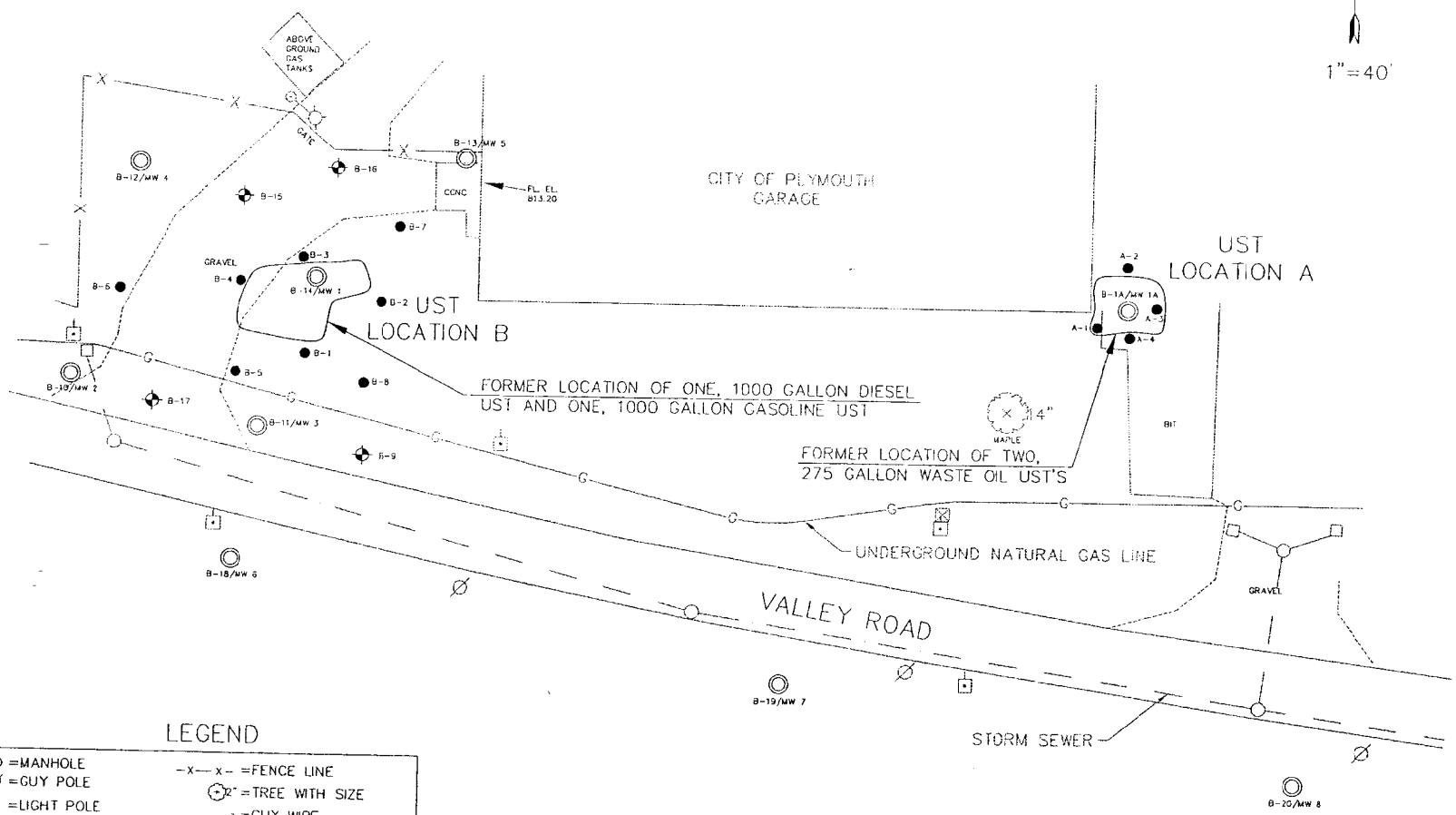
PROJECT NO.
SHEET NO.




# SITE LOCATION MAP AND LOCAL TOPOGRAPHY

FIGURE 1

| SITE LOCATION MAP | SCALE: 1"=2000' 0 2000 4000 | K&A KAPUR & ASSOCIATES CONSULTING ENGINEERS MILWAUKEE, WISCONSIN |
|---|---|---|




LEGEND

- O =MANHOLE
- Ø =GUY POLE
- =LIGHT POLE
- =POWER POLE
- =CATCH BASIN
- =UTILITY PEDESTAL
- =CONTROL POINT
- =UST EXCAVATION LIMIT
- -X— X- =FENCE LINE
- =TREE WITH SIZE
- --→ =GUY WIRE
- =MONITORING WELL
- =HOLLOW STEM AUGER BORING
- ● =GEOPROBE LOCATION

FIGURE 2: SITE PLAN

DESIGNED BY:
DRAWN BY: KS
CHECKED BY: EG
APPROVED BY:
DATE: 11/13/96
SCALE: 1"=40'

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

F:\1-DELLSD\PLYMOUTH\330GAMAG

SCALE
BAR ON ORIGINAL DRAWING IS 40 SCALE
0 10 20 40

KAPUR & ASSOCIATES, INC.
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(414) 351-6668
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CITY OF PLYMOUTH MUNICIPAL GARAGE
1004 VALLEY ROAD
PLYMOUTH, WI 53073

PROJECT NO.

SHEET NO.

FILENAME: X:\1-DELLSD\PLYMOUTH\330GAMAG\CADADV\F2 DATE & TIME LAST EDIT: 02/04/97 Time 14:59 PLOT DATE & TIME: 02/04/97 Time 14:59 DIMSCALE: 1= 20.00

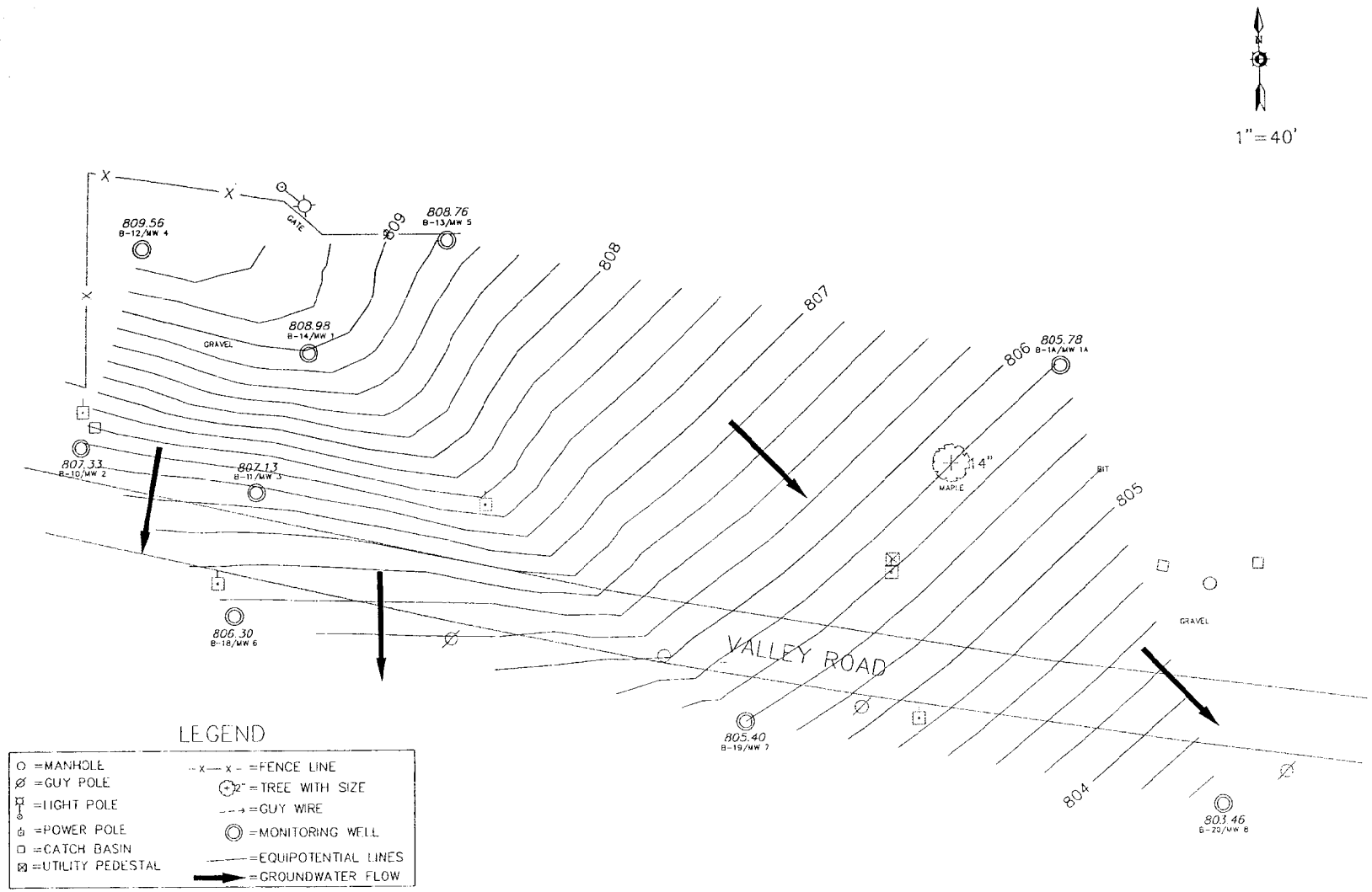


FIGURE 5: GROUNDWATER FLOW DIRECTION MAP
(groundwater levels recorded on 11/5/96)

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

DESIGNED BY:
DRAWN BY: KS
CHECKED BY: EG
APPROVED BY:
DATE: 11/13/96
SCALE: 1"=40'
F:\1-DELL50\PLYMOUTH\330GARAG

SCALE
BAR ON ORIGINAL DRAWING IS 40 SCALE
0 10 20 40

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FAX 414-351-4117

CITY OF PLYMOUTH MUNICIPAL GARAGE
1004 VALLEY ROAD
PLYMOUTH, WI 53073

PROJECT NO.
SHEET NO.

FILENAME: \1-DELL50\PLYMOUTH\330GARAG\CADMO\F5 DATE & TIME LAST EDIT: 03/11/97 Time 09:35 PLOT DATE & TIME: 03/11/97 Time 09:35 DIMSCALE: 1= 20.00

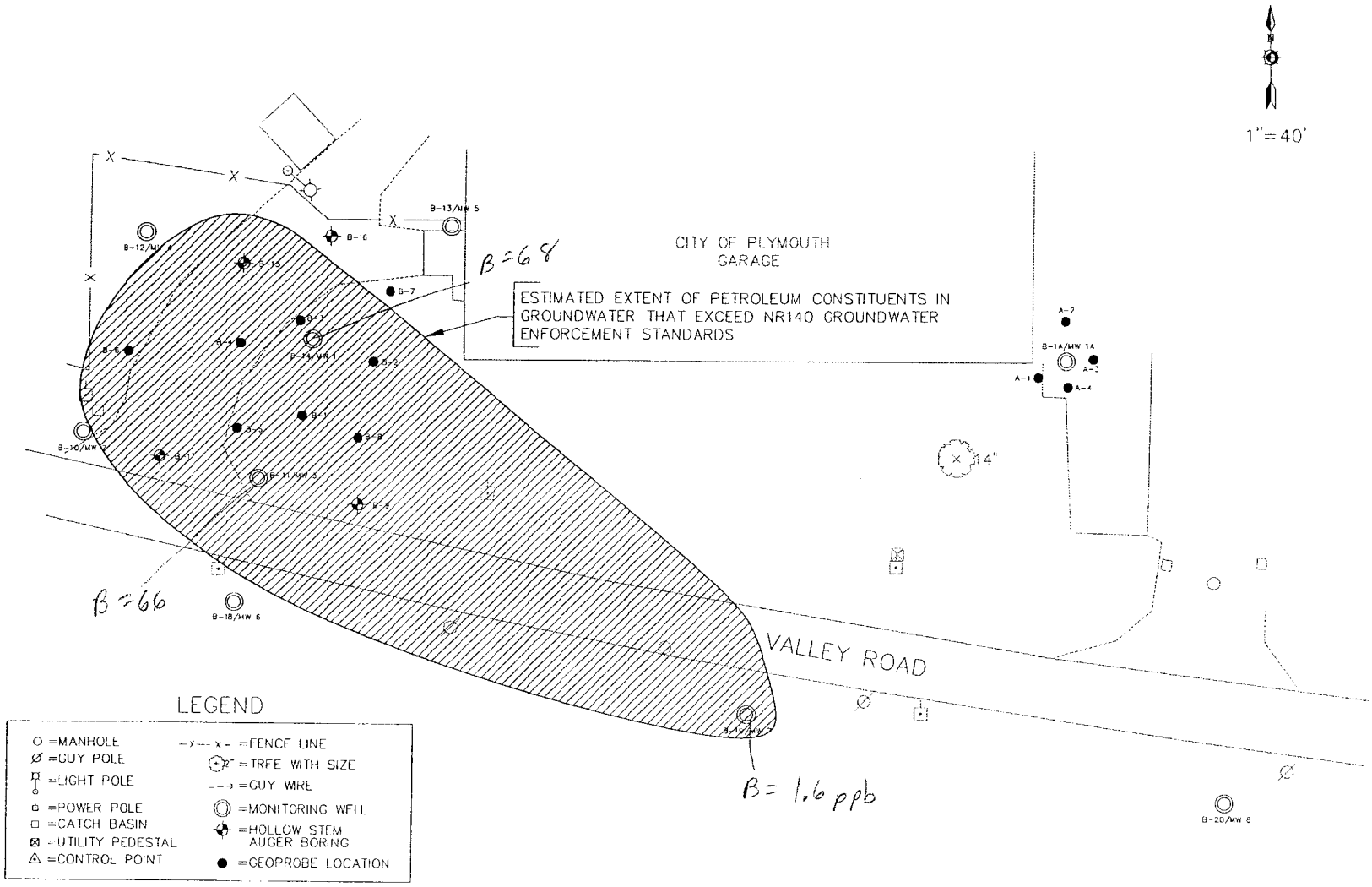


FIGURE 8: ESTIMATED EXTENT OF PETROLEUM CONSTITUENTS IN GROUNDWATER

DESIGNED BY:
DRAWN BY: KS
CHECKED BY: EC
APPROVED BY:
DATE: 11/13/96
SCALE: 1"=40'

NO. | REVISIONS | DATE

SCALE
BAR ON ORIGINAL DRAWING IS 40' SCALE
0 10 20 40

KAPUR & ASSOCIATES, INC.
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FAX 414-351-4117

CITY OF PLYMOUTH MUNICIPAL GARAGE
1004 VALLEY ROAD
PLYMOUTH, WI 53073

PROJECT NO.
SHEET NO.

# Table 2
## Laboratory Analytical Results
Groundwater Monitoring
City of Plymouth-Municipal Garage

| Parameters | Sample ID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | | | | MW-1A | | | | NR ES | NR PAL |
| Sample Date | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | NAp | NAp |
| **Water Quality Parameters** | | | | | | | | | | |
| DRO (ppb) | 490 | <27 | 230 | 110 | 1900 | NA | 250 | NA | NS | NS |
| GRO (ppb) | 870 | 160 | 380 | 420 | <30 | <30 | NA | <30 | NS | NS |
| PVOCs (ppb) | | | | | | | | | | |
| Methyl tert-Butyl Ether | <0.58 | 2.5 | <0.20 | 8.4 | <0.29 | <0.20 | <0.20 | <0.20 | 60 | 12 |
| Benzene | 44 | 13 | 24 | 18 | <0.31 | <0.20 | <0.20 | <0.20 | 5 | 0.5 |
| Toluene | 11 | 1.5 | 5.2 | 4.5 | <0.32 | <0.20 | <0.20 | <0.20 | 343 | 68.6 |
| Ethylbenzene | 55 | 9.6 | 28 | 20 | <0.35 | <0.30 | <0.30 | <0.30 | 700 | 140 |
| o-Xylene | 7.6 | 1.0 | 3.8 | 3.0 | <0.36 | <0.30 | <0.30 | <0.30 | 620* | 124* |
| p,m-Xylenes | 110 | 10 | 49 | 33 | <0.73 | <0.60 | <0.60 | <0.60 | 620* | 124* |
| 1,2,4-Trimethylbenzene | 110 | 16 | 32 | 37 | <0.36 | <0.36 | <0.30 | <0.30 | 480** | 96** |
| 1,3,5- Trimethylbenzene | 25 | 24 | 11 | 7.9 | <0.38 | <0.38 | <0.30 | <0.30 | 480** | 96** |
| **Natural Attenuation Parameters** | | | | | | | | | | |
| Temperature ($^0$ C) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| pH | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Dissolved Oxygen (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Redox Potential (mV) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Ferrous Iron (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Chloride (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Sulfate (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Nitrate/Nitrite (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Manganese –Total (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Methane (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |
| Total Organic Carbon (ppm) | NA | NA | NA | NA | NA | NA | NA | NA | NAp | NAp |

## Table 2 (cont.)
## Laboratory Analytical Results
### Groundwater Monitoring
### City of Plymouth-Municipal Garage

| Parameters | Sample ID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-2 | | | | MW-3 | | | | NR ES | NR PAL |
| Sample Date | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | NAp | NAp |
| **Water Quality Parameters** | | | | | | | | | | |
| DRO (ppb) | 460 | <27 | <26 | 41 | 590 | 480 | 64 | 140 | NS | NS |
| GRO (ppb) | <20 | <30 | <30 | <30 | 770 | 2400 | 230 | 97 | NS | NS |
| PVOCs (ppb) | | | | | | | | | | |
| Methyl tert-Butyl Ether | <0.29 | <0.20 | <0.20 | <0.20 | <0.29 | <2.0 | 1.4 | 0.40 | 60 | 12 |
| Benzene | <0.31 | <0.20 | <0.20 | <0.20 | 92 | 88 | 62 | 24 | 5 | 0.5 |
| Toluene | <0.32 | <0.20 | <0.20 | <0.20 | 5.5 | 18 | 0.30 | 0.70 | 343 | 68.6 |
| Ethylbenzene | <0.35 | <0.30 | <0.30 | <0.30 | 99 | 310 | 22 | 18 | 700 | 140 |
| o-Xylene | <0.36 | <0.30 | <0.30 | <0.30 | 130 | 150 | <0.30 | <0.30 | 620* | 124* |
| p,m-Xylenes | <0.73 | <0.60 | <0.60 | <0.60 | 18 | 740 | <0.60 | <0.60 | 620* | 124* |
| 1,2,4-Trimethylbenzene | <0.36 | <0.30 | <0.30 | <0.30 | 72 | 2400 | 9.6 | 9.9 | 480** | 96** |
| 1,3,5- Trimethylbenzene | <0.38 | <0.30 | <0.30 | <0.30 | 12 | 310 | <0.30 | <0.30 | 480** | 96** |
| **Natural Attenuation Parameters** | | | | | | | | | | |
| Temperature ($^0$ C) | NA | NA | NA | NA | 13.6 | NA | NA | NA | NAp | NAp |
| pH | NA | NA | NA | NA | 6.84 | NA | NA | NA | NAp | NAp |
| Dissolved Oxygen (ppm) | NA | NA | NA | NA | 6.49 | NA | NA | NA | NAp | NAp |
| Redox Potential (mV) | NA | NA | NA | NA | -37.8 | NA | NA | NA | NAp | NAp |
| Ferrous Iron (ppm) | NA | NA | NA | NA | 0.41 | NA | NA | NA | NAp | NAp |
| Chloride (ppm) | NA | NA | NA | NA | 140 | NA | NA | NA | NAp | NAp |
| Sulfate (ppm) | NA | NA | NA | NA | 26 | NA | NA | NA | NAp | NAp |
| Nitrate/Nitrite (ppm) | NA | NA | NA | NA | <0.017 | NA | NA | NA | NAp | NAp |
| Manganese -Total (ppm) | NA | NA | NA | NA | 2.0 | NA | NA | NA | NAp | NAp |
| Methane (ppm) | NA | NA | NA | NA | 0.74 | NA | NA | NA | NAp | NAp |
| Total Organic Carbon (ppm) | NA | NA | NA | NA | 26 | NA | NA | NA | NAp | NAp |

## Table 2 (cont.)
## Laboratory Analytical Results
Groundwater Monitoring
City of Plymouth-Municipal Garage

| Parameters | Sample ID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-4 | | | | MW-5 | | | | NR ES | NR PAL |
| Sample Date | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | NAp | NAp |
| **Water Quality Parameters** | | | | | | | | | | |
| DRO (ppb) | 120 | <27 | <26 | 78 | 130 | <27 | <27 | <27 | NS | NS |
| GRO (ppb) | <20 | <30 | <30 | <30 | <20 | <30 | <30 | <30 | NS | NS |
| PVOCs (ppb) | | | | | | | | | | |
| Methyl tert-Butyl Ether | <0.29 | <0.20 | <0.20 | <0.20 | <0.29 | <0.20 | <0.20 | <0.20 | 60 | 12 |
| Benzene | <0.31 | <0.20 | <0.20 | <0.20 | <0.31 | <0.20 | <0.20 | <0.20 | 5 | 0.5 |
| Toluene | <0.32 | 0.20 | <0.20 | <0.20 | <0.32 | <0.20 | <0.20 | <0.20 | 343 | 68.6 |
| Ethylbenzene | 0.46 | <0.30 | <0.30 | <0.30 | <0.35 | <0.30 | <0.30 | <0.30 | 700 | 140 |
| o-Xylene | <0.36 | <0.30 | <0.30 | <0.30 | <0.36 | <0.30 | <0.30 | <0.30 | 620* | 124* |
| p,m-Xylenes | 1.0 | <0.60 | <0.60 | <0.60 | <0.73 | <0.60 | <0.60 | <0.60 | 620* | 124* |
| 1,2,4-Trimethylbenzene | 0.71 | <0.30 | <0.30 | <0.30 | <0.36 | <0.36 | <0.30 | <0.30 | 480** | 96** |
| 1,3,5- Trimethylbenzene | 0.43 | <0.30 | <0.30 | <0.30 | <0.38 | <0.38 | <0.30 | <0.30 | 480** | 96** |
| **Natural Attenuation Parameters** | | | | | | | | | | |
| Temperature ($^0$ C) | 13.3 | 9.8 | 13.73 | 14.84 | NA | NA | NA | NA | NAp | NAp |
| pH | 7.20 | 6.98 | 7.11 | 7.17 | NA | NA | NA | NA | NAp | NAp |
| Dissolved Oxygen (ppm) | 7.54 | 8.13 | 6.84 | 0 | NA | NA | NA | NA | NAp | NAp |
| Redox Potential (mV) | -62.0 | 472 | 374 | 296 | NA | NA | NA | NA | NAp | NAp |
| Ferrous Iron (ppm) | 0 | 0.6 | 0.4 | 0.7 | NA | NA | NA | NA | NAp | NAp |
| Chloride (ppm) | 30 | 23 | 23.7 | 28.4 | NA | NA | NA | NA | NAp | NAp |
| Sulfate (ppm) | 63 | 34.8 | 34.9 | 38.8 | NA | NA | NA | NA | NAp | NAp |
| Nitrate/Nitrite (ppm) | <0.017 | <0.14 | <0.14 | <0.14 | NA | NA | NA | NA | NAp | NAp |
| Manganese -Total (ppm) | 0.23 | 0.162 | 0.452 | 0.21 | NA | NA | NA | NA | NAp | NAp |
| Methane (ppm) | 0.036 | 0.038 | 0.032 | 0.0017 | NA | NA | NA | NA | NAp | NAp |
| Total Organic Carbon (ppm) | 17 | 3.0 | <3.0 | <3 | NA | NA | NA | NA | NAp | NAp |

## Table 2 (cont.)
## Laboratory Analytical Results
### Groundwater Monitoring
### City of Plymouth-Municipal Garage

| Parameters | Sample ID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-6 | | | | MW-7 | | | | NR ES | NR PAL |
| Sample Date | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | NAp | NAp |
| **Water Quality Parameters** | | | | | | | | | | |
| DRO (ppb) | 120 | <27 | <26 | 63 | 27 | <27 | <26 | <26 | NS | NS |
| GRO (ppb) | 24 | <30 | <30 | <30 | <20 | <30 | <30 | <30 | NS | NS |
| PVOCs (ppb) | | | | | | | | | | |
| Methyl tert-Butyl Ether | <0.29 | <0.20 | <0.20 | <0.20 | <0.29 | <0.20 | <0.20 | <0.20 | 60 | 12 |
| Benzene | <0.31 | <0.20 | <0.20 | <0.20 | <0.31 | <0.20 | <0.20 | <0.20 | 5 | 0.5 |
| Toluene | <0.32 | <0.20 | <0.20 | <0.20 | <0.32 | <0.20 | <0.20 | <0.20 | 343 | 68.6 |
| Ethylbenzene | <0.38 | <0.30 | <0.30 | <0.30 | <0.35 | <0.30 | <0.30 | <0.30 | 700 | 140 |
| o-Xylene | <0.36 | <0.30 | <0.30 | <0.30 | <0.36 | <0.30 | <0.30 | <0.30 | 620* | 124* |
| p,m-Xylenes | <0.73 | <0.60 | <0.60 | <0.60 | <0.73 | <0.60 | <0.60 | <0.60 | 620* | 124* |
| 1,2,4-Trimethylbenzene | 0.59 | <0.30 | <0.30 | <0.30 | <0.36 | <0.30 | <0.30 | <0.30 | 480** | 96** |
| 1,3,5- Trimethylbenzene | <0.38 | <0.30 | <0.30 | <0.30 | <0.38 | <0.30 | <0.30 | <0.30 | 480** | 96** |
| **Natural Attenuation Parameters** | | | | | | | | | | |
| Temperature (° C) | NA | NA | NA | NA | 13.1 | 7.72 | 12.83 | 14.0 | NAp | NAp |
| pH | NA | NA | NA | NA | 6.78 | 6.68 | 7.35 | 6.74 | NAp | NAp |
| Dissolved Oxygen (ppm) | NA | NA | NA | NA | 1.30 | 1.86 | 2.90 | 16.0 | NAp | NAp |
| Redox Potential (mV) | NA | NA | NA | NA | -33.4 | 341 | 399 | 329 | NAp | NAp |
| Ferrous Iron (ppm) | NA | NA | NA | NA | 1.0 | 0.8 | 0 | 1.5 | NAp | NAp |
| Chloride (ppm) | NA | NA | NA | NA | 80 | 91.1 | 119 | 181 | NAp | NAp |
| Sulfate (ppm) | NA | NA | NA | NA | 52 | 39.8 | 26.2 | 11.1 | NAp | NAp |
| Nitrate/Nitrite (ppm) | NA | NA | NA | NA | <0.017 | <0.14 | <0.14 | <0.14 | NAp | NAp |
| Manganese -Total (ppm) | NA | NA | NA | NA | 0.42 | 0.7 | 0.401 | 0.392 | NAp | NAp |
| Methane (ppm) | NA | NA | NA | NA | 0.019 | 0.015 | 0.0063 | 0.090 | NAp | NAp |
| Total Organic Carbon (ppm) | NA | NA | NA | NA | 22 | 7.0 | <3 | <3 | NAp | NAp |

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## Table 2 (cont.)
## Laboratory Analytical Results
### Groundwater Monitoring
### City of Plymouth-Municipal Garage

| Parameters | Sample ID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-8 | | | | MW-9 | | | | NR ES | NR PAL |
| Sample Date | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | NAp | NAp |
| **Water Quality Parameters** | | | | | | | | | | |
| DRO (ppb) | 37 | <27 | <26 | 57 | NA | 190 | <26 | 110 | NS | NS |
| GRO (ppb) | <20 | <30 | <30 | <30 | NA | 820 | <30 | 39 | NS | NS |
| PVOCs (ppb) | | | | | | | | | | |
| Methyl tert-Butyl Ether | <0.29 | <0.20 | <0.20 | <0.20 | NA | 7.8 | <0.20 | <0.20 | 60 | 12 |
| Benzene | <0.31 | <0.20 | <0.20 | <0.20 | NA | 80 | 3.3 | 17 | 5 | 0.5 |
| Toluene | <0.32 | <0.20 | <0.20 | <0.20 | NA | 7.3 | <0.20 | 0.80 | 343 | 68.6 |
| Ethylbenzene | <0.35 | <0.30 | <0.30 | <0.30 | NA | 14 | <0.30 | 5.8 | 700 | 140 |
| o-Xylene | <0.36 | <0.30 | <0.30 | <0.30 | NA | 11 | <0.30 | 0.90 | 620* | 124* |
| p,m-Xylenes | <0.73 | <0.60 | <0.60 | <0.60 | NA | 34 | <0.60 | 5.6 | 620* | 124* |
| 1,2,4-Trimethylbenzene | <0.36 | <0.30 | <0.30 | <0.30 | NA | 9.9 | <0.30 | 4.5 | 480** | 96** |
| 1,3,5- Trimethylbenzene | <0.38 | <0.30 | <0.30 | <0.30 | NA | 22 | <0.30 | 1.1 | 480** | 96** |
| **Natural Attenuation Parameters** | | | | | | | | | | |
| Temperature ($^0$ C) | NA | NA | 12.08 | NA | NA | 7.98 | 13.27 | 15.63 | NAp | NAp |
| pH | NA | NA | 7.21 | NA | NA | 7.3 | 7.27 | 7.23 | NAp | NAp |
| Dissolved Oxygen (ppm) | NA | NA | 3.34 | NA | NA | 2.48 | 3.34 | 0 | NAp | NAp |
| Redox Potential (mV) | NA | NA | 431 | NA | NA | 303 | 431 | 239 | NAp | NAp |
| Ferrous Iron (ppm) | NA | NA | 0.4 | NA | NA | 0 | 0.4 | 0.3 | NAp | NAp |
| Chloride (ppm) | NA | NA | 38.1 | NA | NA | 35.4 | 22.0 | 60.3 | NAp | NAp |
| Sulfate (ppm) | NA | NA | 32.2 | NA | NA | 6.7 | 16.6 | 7.6 | NAp | NAp |
| Nitrate/Nitrite (ppm) | NA | NA | <0.14 | NA | NA | <0.14 | <0.14 | <0.14 | NAp | NAp |
| Manganese -Total (ppm) | NA | NA | 0.202 | NA | NA | 0.18 | 0.415 | 0.234 | NAp | NAp |
| Methane (ppm) | NA | NA | 0.0039 | NA | NA | 0.25 | 0.10 | 0.16 | NAp | NAp |
| Total Organic Carbon (ppm) | NA | NA | <3.0 | NA | NA | 4 | <3.0 | <3.0 | NAp | NAp |

## Table 2 (cont.)
## Laboratory Analytical Results
### Groundwater Monitoring
### City of Plymouth-Municipal Garage

| Parameters | Sample ID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-10 | | | | MW-11 | | | | NR ES | NR PAL |
| Sample Date | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | 10/01/97 | 02/09/98-02/10/98 | 07/22/98-07/23/98 | 10/28/98-10/29/98 | NAp | NAp |
| **Water Quality Parameters** | | | | | | | | | | |
| DRO (ppb) | NA | 290 | <26 | 120 | NA | 88 | <26 | 65 | NS | NS |
| GRO (ppb) | NA | <30 | <30 | <30 | NA | <30 | <30 | <30 | NS | NS |
| PVOCs (ppb) | | | | | | | | | | |
| Methyl tert-Butyl Ether | NA | <0.20 | <0.20 | 1.4 | NA | <0.20 | <0.20 | <0.20 | 60 | 12 |
| Benzene | NA | <0.20 | <0.20 | <0.2 | NA | <0.20 | <0.20 | <0.20 | 5 | 0.5 |
| Toluene | NA | <0.20 | <0.20 | 0.30 | NA | <0.20 | <0.20 | <0.20 | 343 | 68.6 |
| Ethylbenzene | NA | <0.30 | <0.30 | 22 | NA | <0.30 | <0.30 | <0.30 | 700 | 140 |
| o-Xylene | NA | <0.30 | <0.30 | <0.30 | NA | <0.30 | <0.30 | <0.30 | 620* | 124* |
| p,m-Xylenes | NA | <0.60 | <0.60 | <0.60 | NA | <0.60 | <0.60 | <0.60 | 620* | 124* |
| 1,2,4-Trimethylbenzene | NA | <0.30 | <0.30 | 9.6 | NA | <0.30 | <0.30 | <0.30 | 480** | 96** |
| 1,3,5- Trimethylbenzene | NA | <0.30 | <0.30 | <0.30 | NA | <0.30 | <0.30 | <0.30 | 480** | 96** |
| **Natural Attenuation Parameters** | | | | | | | | | | |
| Temperature ($^0$ C) | NA | N/T | 15.84 | 14.30 | NA | 7.96 | 14.84 | 14.79 | NAp | NAp |
| pH | NA | N/T | 7.26 | 6.90 | NA | 7.15 | 6.85 | 7.07 | NAp | NAp |
| Dissolved Oxygen (ppm) | NA | N/T | 6.14 | 0 | NA | 4.17 | 6.06 | 25.5 | NAp | NAp |
| Redox Potential (mV) | NA | N/T | 410 | 207 | NA | 320 | 441 | 312 | NAp | NAp |
| Ferrous Iron (ppm) | NA | N/T | 0.8 | 1.5 | NA | 0.6 | 0.8 | 0.4 | NAp | NAp |
| Chloride (ppm) | NA | 147 | 236 | 71.6 | NA | 112 | 95.6 | 71.6 | NAp | NAp |
| Sulfate (ppm) | NA | 15.8 | 17.5 | 27.6 | NA | 33.6 | 20.7 | 27.6 | NAp | NAp |
| Nitrate/Nitrite (ppm) | NA | 2.31 | <0.14 | <0.14 | NA | 1.0 | <0.14 | <0.14 | NAp | NAp |
| Manganese -Total (ppm) | NA | 0.729 | 2.24 | 0.146 | NA | 6.3 | 0.455 | 0.146 | NAp | NAp |
| Methane (ppm) | NA | 0.027 | 0.014 | 0.049 | NA | 0.01 | 0.031 | 0.026 | NAp | NAp |
| Total Organic Carbon (ppm) | NA | 10.6+ | <3.0 | <3.0 | NA | 12 | <3.0 | <3.0 | NAp | NAp |

+ Sample for this parameter was collected on 02/20/98.

## Table 2 (cont.)
## Laboratory Analytical Results
### Groundwater Monitoring
### City of Plymouth Municipal Garage

| Parameters | Sample ID | | | | | |
|---|---|---|---|---|---|---|
| | MW-1D | MW-7D | MW-2D | MW-6D | NR ES | NR PAL |
| **Sample Date** | 10/01/97 | 02/10/98 | 07/23/98 | 10/29/98 | NAp | NAp |
| **Groundwater Elevation** | 2.67 | 7.39 | 4.08 | 7.24 | NAp | NAp |
| **Water Quality Parameters** | | | | | | |
| DRO (ppb) | 500 | <27 | <26 | 56 | NS | NS |
| GRO (ppb) | 880 | <30 | <30 | <30 | NS | NS |
| PVOCs (ppb) | | | | | | |
| Methyl tert-Butyl Ether | <0.58 | <0.20 | <0.20 | <0.20 | 60 | 12 |
| Benzene | 43 | <0.20 | <0.20 | <0.20 | 5 | 0.5 |
| Toluene | 10 | <0.20 | <0.20 | <0.20 | 343 | 68.6 |
| Ethylbenzene | 55 | <0.30 | <0.30 | <0.30 | 700 | 140 |
| o-Xylene | 7.3 | <0.30 | <0.30 | <0.30 | 620* | 124* |
| p,m-Xylenes | 110 | <0.60 | <0.60 | <0.60 | 620* | 124* |
| 1,2,4-Trimethylbenzene | 26 | <0.30 | <0.30 | <0.30 | 480** | 96** |
| 1,3,5- Trimethylbenzene | 110 | <0.30 | <0.30 | <0.30 | 480** | 96** |
| **Natural Attenuation Parameters** | | | | | | |
| Temperature ($^0$ C) | NA | NA | NA | NA | NAp | NAp |
| pH | NA | NA | NA | NA | NAp | NAp |
| Dissolved Oxygen (ppm) | NA | NA | NA | NA | NAp | NAp |
| Redox Potential (mV) | NA | NA | NA | NA | NAp | NAp |
| Ferrous Iron (ppm) | NA | NA | NA | NA | NAp | NAp |
| Chloride (ppm) | NA | NA | NA | NA | NAp | NAp |
| Sulfate (ppm) | NA | NA | NA | NA | NAp | NAp |
| Nitrate/Nitrite (ppm) | NA | NA | NA | NA | NAp | NAp |
| Manganese -Total (ppm) | NA | NA | NA | NA | NAp | NAp |
| Methane (ppm) | NA | NA | NA | NA | NAp | NAp |
| Total Organic Carbon (ppm) | NA | NA | NA | NA | NAp | NAp |

ES = Enforcement Standard per NR140 in ppb; PAL = Preventive Action Limit per NR 140 in ppb; NS = No Standard promulgated in NR140;
DRO = Diesel Range Organics; GRO = Gasoline Range Organics; PVOCs = Petroleum Volatile Organic Compounds; NA = Not Analyzed;
NT = Not Tested; NAp = Not Applicable; ppm = parts per million; ppb = parts per billion; mV = millivolts
* = For total xylenes, **=1,2,4-and 1,3,5-combined
Concentrations that are shaded exceed the NR 140 groundwater ES
Only compounds detected in at least one sample are shown in the table.