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 Region Annex
4041 North Richards Street
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-229-0800
FAX 414-229-0810

July 19, 1999

Maurine Herbst
Route 2, Box 1844
Silver Lake Road
Wautoma, WI 54982

Dear Ms. Herbst:

Subject: Former Herbst Service, N168, W21330 State Highway 60, Jackson, file reference FID #267123340 ERR-LUST

Thank you for conducting additional work at the site. I do not require groundwater use restrictions on the offsite properties since your consultant's recent sampling has determined that groundwater is not contaminated above standards off your property.

This case will be listed as having closed status on our database after you have the wells abandoned and file a groundwater use restriction on your property.

Sincerely,

John Feeney
Hydrogeologist

Cc: Arcadis Geraghty & Miller, Inc.
SER File

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Southeast Region Annex
4041 North Richards Street
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-229-0800
FAX 414-229-0810

April 16, 1999

Maurine Herbst
Route 2, Box 1844
Silver Lake Road
Wautoma, WI 54982

Subject: Case closure, underground storage tank release, former Herbst Service, N168, W21330 State Highway 60, Jackson, file reference FID #267123340 ERR-LUST

I have reviewed your case file based on documents submitted by your consultant, Arcadis, Geraghty & Miller, Inc. Based on this information I agree with your consultant in that no further work is needed. 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.

You must complete the following additional tasks before I can list the case as closed in our database:

- Conduct a vapor survey with a photoionization detector at the bank and under sewer manhole covers on Highway 60 to confirm that petroleum vapors are no longer a problem. If petroleum vapors are still present, the case will remain open.

- A groundwater use restriction must also be applied to the adjacent property across the street to the west because it is apparent that groundwater contamination above the enforcement

standard has likely migrated onto this property. Alternately, you may show that this is not the case by conducting additional sampling of the wells near the property line, and I will drop this requirement.

- Abandon all of the groundwater monitoring and recovery wells at the site in accordance with Wisconsin Administrative Code NR 141. Submit the abandonment forms to me.

- Submit a notarized copy of the groundwater use restriction.

If you have any questions about this letter, please call me at 414-229-0850.

Sincerely,

John Feeney
Hydrogeologist

cc: Arcadis Geraghty & Miller, Inc.
SER File

843593

RECORDED
DEC. 02, 1999 AT 02:00PM

DOROTHY C. GONNERING
REGISTER OF DEEDS

WASHINGTON COUNTY, WI

Fee Amount: $14.00

Return To: Ed Buc
ARCADIS, GERAGHTY & Miller
126 N. Jefferson St. Ste 400
Milwaukee WI 53202

Groundwater Use Restriction

In Re: -

PARCEL I:

14-3

That part of the Southwest Quarter (SW ¼) of Section Eighteen (18), Township Ten (10) North, Range Twenty (20) East, Village of Jackson, Washington County, Wisconsin, bounded and described as follows:
Commencing at the South ¼ corner, thence West, 390.02 feet; thence North 01 degrees 40 minutes 30 seconds West, 60.02 feet to the point of beginning; thence continuing North 01 degrees 40 minutes 30 seconds West, 300.00 feet; thence West, 209.98 feet; thence South 1 degree 40 minutes 30 seconds East, 300.00 feet; thence East, 209.98 feet to the point of beginning.

PARCEL II:

That part of the SW-1/4 of Section 18, Township 10 North, Range 20 East, Village of Jackson. Washington County, Wisconsin, bounded and described as follows:
Commencing at the South quarter corner of Section 18-10-20, thence West, along the Section line 610 feet to the point of beginning of the land to be described; thence North 1° 36' East 350.93 feet; thence South 88° 24' East approximately 10 feet to the West line of the parcel described in Volume 472 of Records on page 277; thence South 1° 40' 30" East along the West line of said parcel to the South line of Section 18, 360.02 feet; thence West approximately 10 feet to the point of beginning.

Tax Key No. V3-0074

STATE OF WISCONSIN)
) ss
COUNTY OF WASHINGTON)

WHEREAS, Maurine L. Herbst, is the owner of the above-described property; and

WHEREAS, one or more petroleum discharges have occurred at this property. Petroleum contaminated groundwater above ch. NR 140, Wis. Adm. Code enforcement standards exists on this property at the following location(s):

Benzene was detected at the following monitoring wells in samples collected on May 18, 1998:

GMMW-4	76 micrograms per liter (µg/L)
GMMW-9	10 µg/L
GMMW-14	220µg/L
GMMW-16	73 µg/L

Xylene was detected at the following monitoring wells in samples collected on May 18, 1998:

GMMW-14 1,400 µg/L

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

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

WHEREAS, construction of wells where the water quality exceeds the drinking water standards in ch. NR 809, Wis. Adm. Code is restricted by ch. NR 811, Wis. Adm. Code and ch. 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 its successor agency, to determine what specific prohibitions or requirements are applicable and to obtain Department approval, prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

This restriction is hereby declared to be a convenant 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 and 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 the restrictions set forth in this covenant are no longer required. Upon 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 can be recorded to give notice that this groundwater use restriction is no longer binding.

IN WITNESS WHEREOF, the owner of the property has executed this Groundwater Use Restriction, this 24 day of November, 1999.

Signature: Maurine Herbst

Printed Name: MAURINE HERBST

Subscribed and sworn to before me

this 24th day of November, 1999

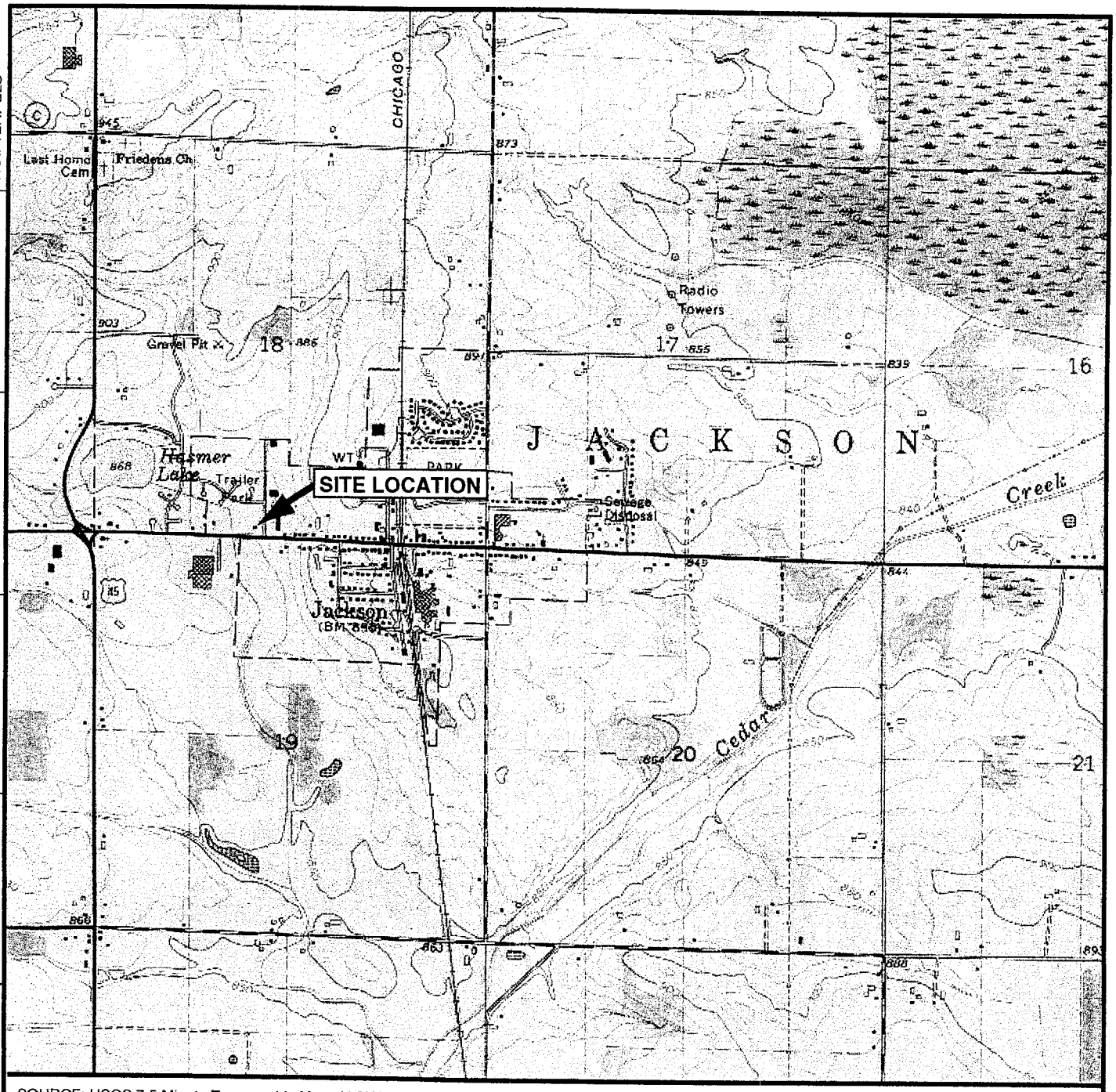
Kathy Mitchell

Kathy Mitchell

Notary Public, State of Wisconsin

My commission Feb 6, 00

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



SOURCE: USGS 7.5 Minute Topographic Map, JACKSON, WISCONSIN Quadrangle, 1976

N

0 1000 2000 4000

SCALE IN FEET

WISCONSIN

ARCADIS

GERAGHTY & MILLER

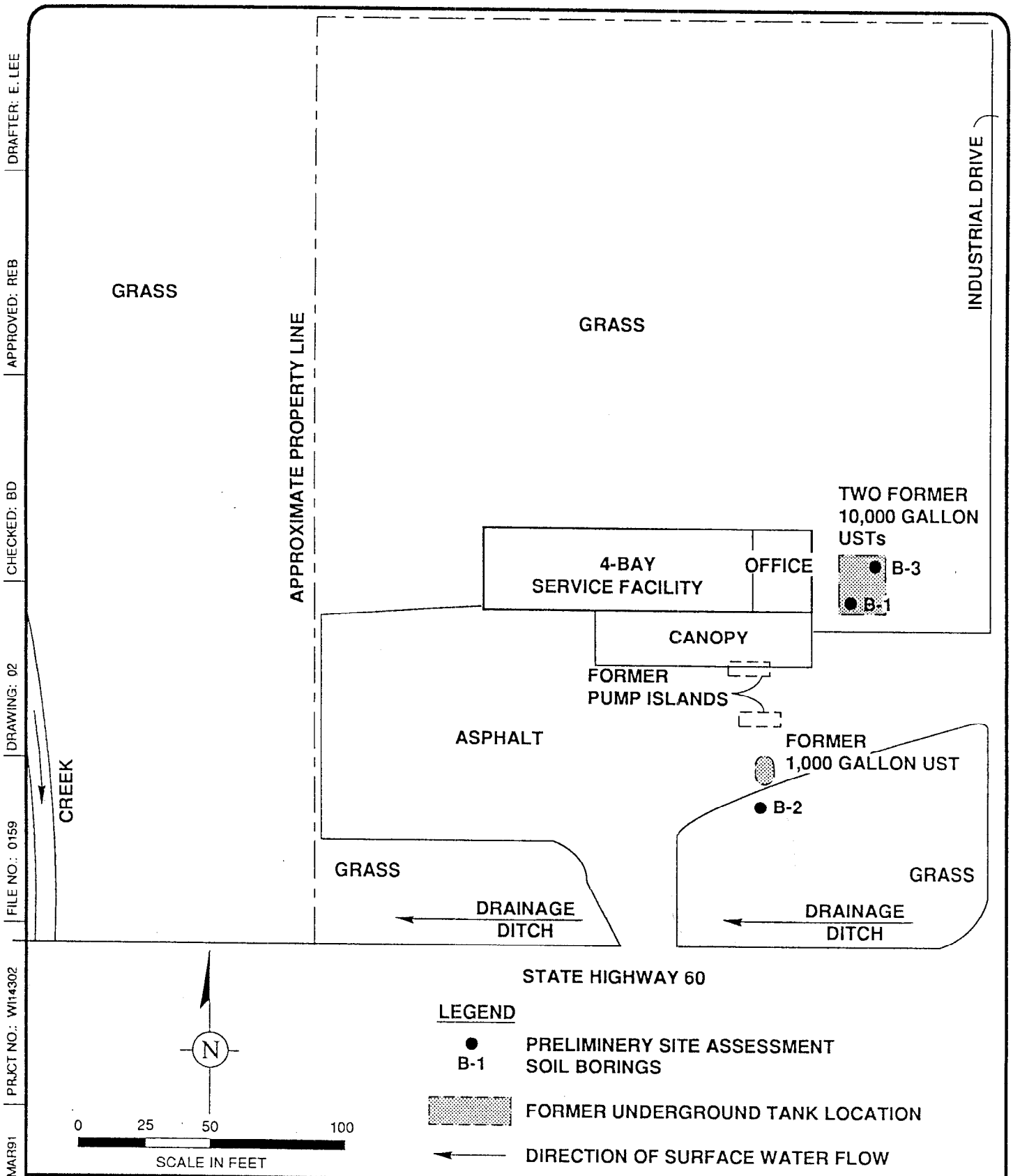
SITE LOCATION MAP

FORMER HERBST SERVICE
JACKSON, WISCONSIN

FIGURE

1

DRAFTER: ELS | APPROVED: | CHECKED: BDEAB | DRAWING: SITE_LOC.AI | FILE NO.: GRAPHICS | PN: HERBSTSEWI0143198O&M | DWG DATE: 29DEC98



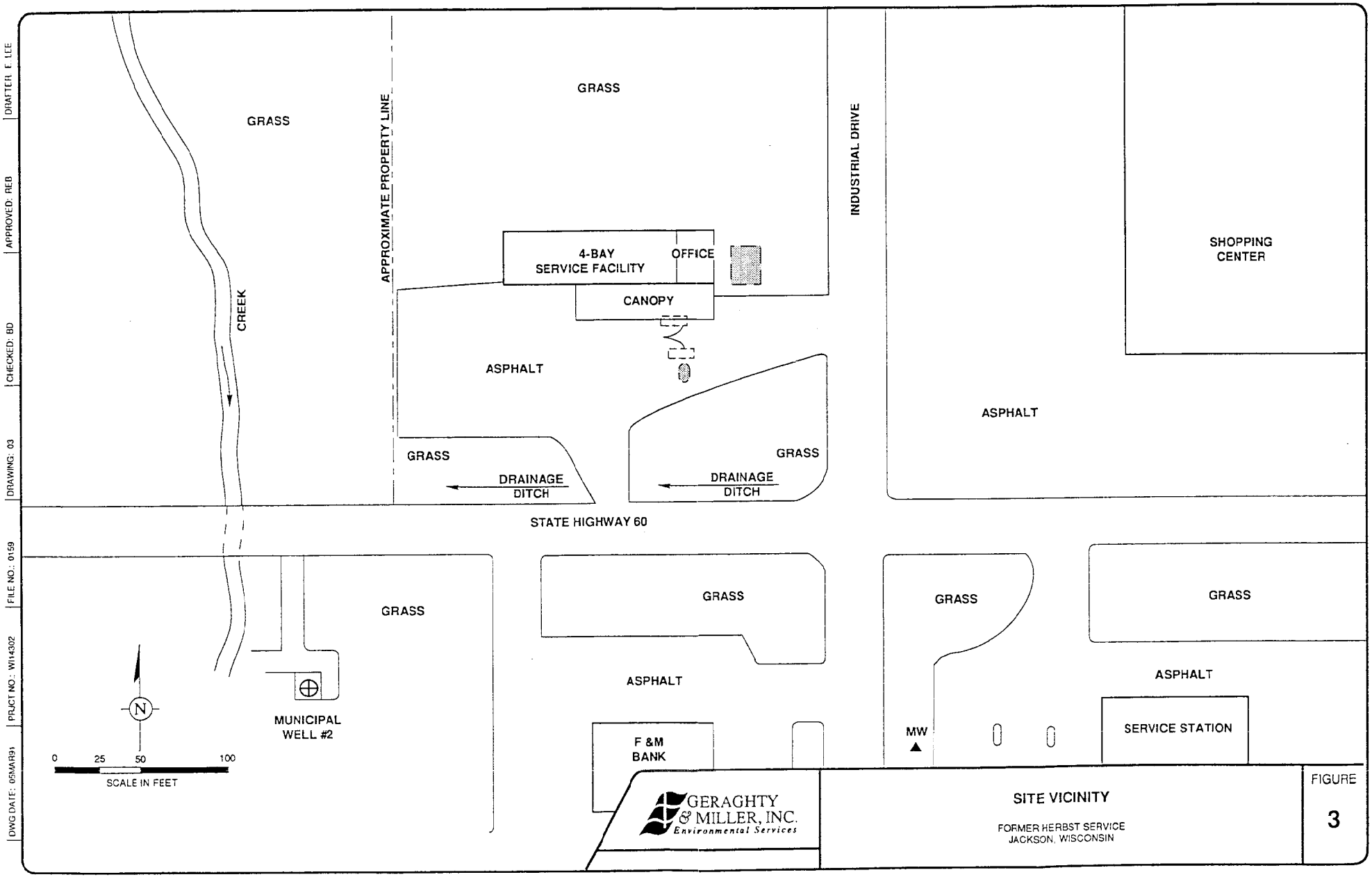
DRAFTER: E. LEE
APPROVED: REB
CHECKED: BD
DRAWING: 02
FILE NO.: 0159
PRJCT NO.: WI14302
DWG DATE: 05MAR91

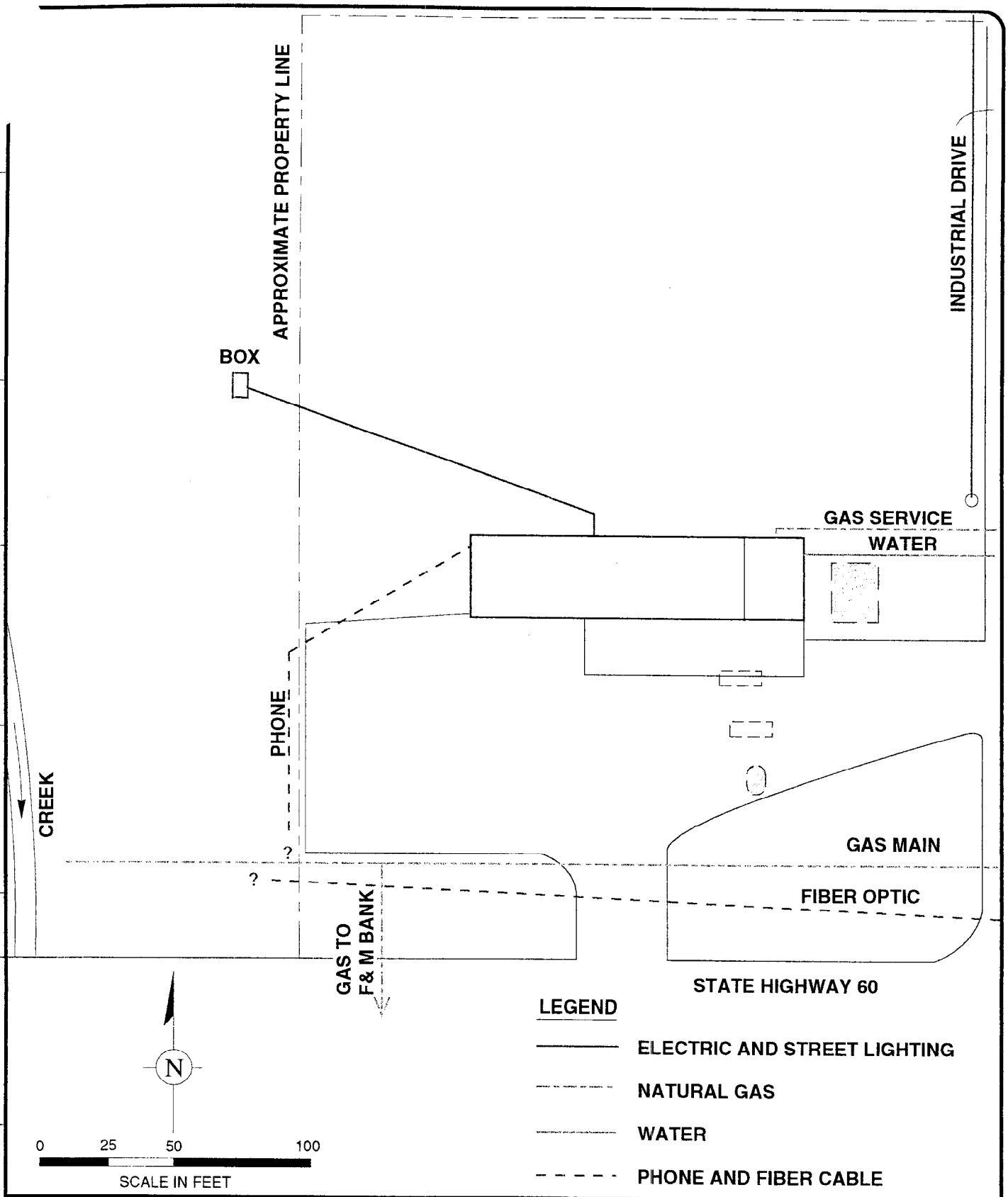
GERAGHTY & MILLER, INC.
Environmental Services

SITE FEATURES

FORMER HERBST SERVICE
JACKSON, WISCONSIN

FIGURE
2


GRASS
CREEK
APPROXIMATE PROPERTY LINE
GRASS
4-BAY
SERVICE FACILITY
OFFICE
CANOPY
ASPHALT
GRASS
DRAINAGE
DITCH
GRASS
DRAINAGE
DITCH
INDUSTRIAL DRIVE
ASPHALT
SHOPPING
CENTER
STATE HIGHWAY 60
GRASS
MUNICIPAL
WELL #2
N
0 25 50 100
SCALE IN FEET
GRASS
ASPHALT
F &M
BANK
GRASS
MW
GRASS
ASPHALT
SERVICE STATION
GERAGHTY
& MILLER, INC.
Environmental Services
SITE VICINITY
FORMER HERBST SERVICE
JACKSON, WISCONSIN
FIGURE
3
DRAFTER: E. LEE
APPROVED: REB
CHECKED: BD
DRAWING: 03
FILE NO.: 0159
PRJCT NO.: W14302
DWG DATE: 05MAR91



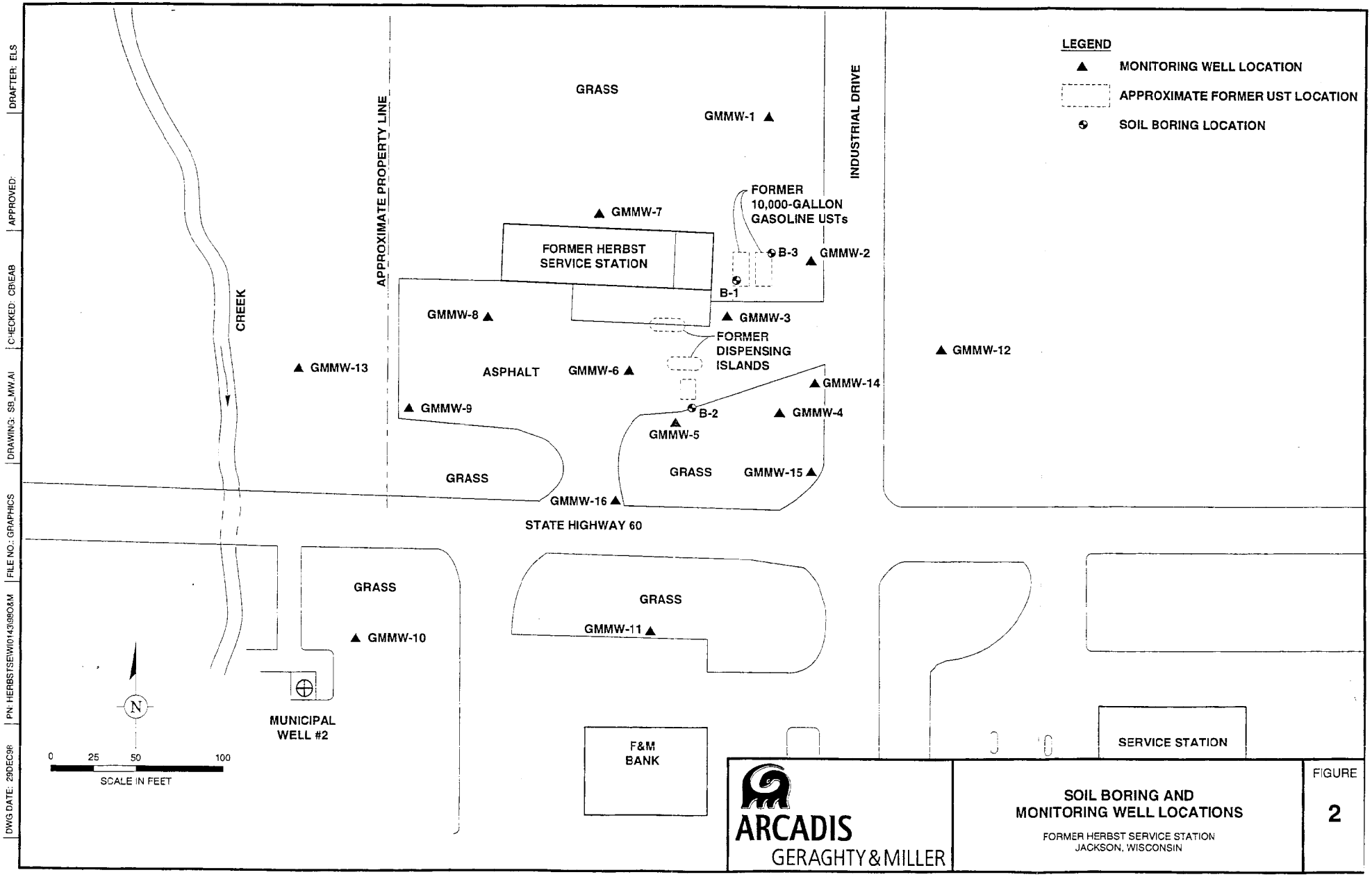
DRAI | APPROVED: | CHECKED: BD \EAB | DRAWING: UTIL.AI | FILE NO.: GRAPHICS | PN: HERBSTSEWI0143'97OM | DWG DATE: 06MAR97

GERAGHTY & MILLER, INC.
Environment and Infrastructure
a heidemij company

UNDERGROUND UTILITIES MAP

FORMER HERBST SERVICE
JACKSON, WISCONSIN

FIGURE
2



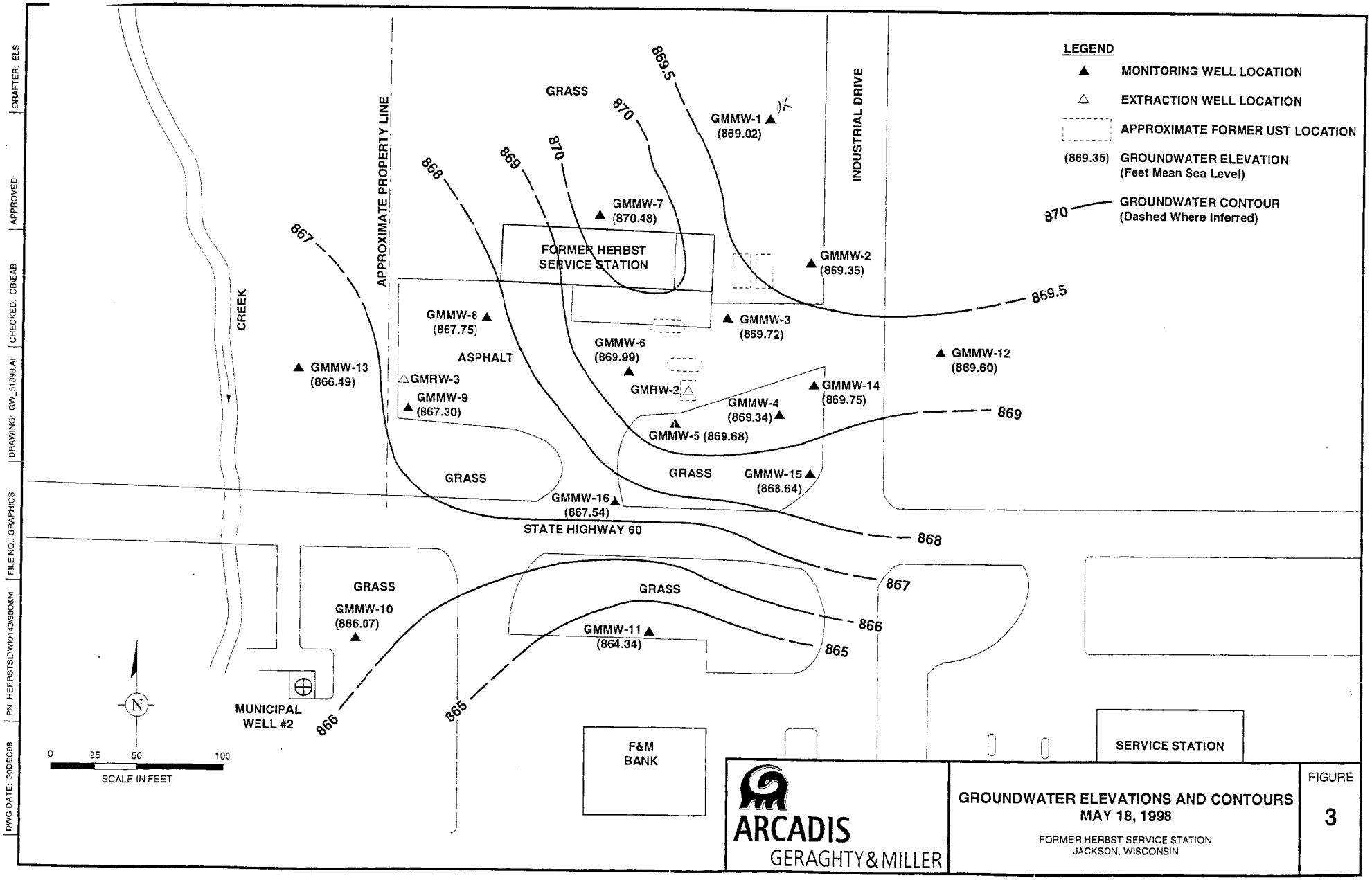
ARCADIS GERAGHTY & MILLER

SOIL BORING AND MONITORING WELL LOCATIONS

FORMER HERBST SERVICE STATION
JACKSON, WISCONSIN

FIGURE 2

DRAFTER: ELS | APPROVED: | CHECKED: CB/EAB | DRAWING: SB_MW.AI | FILE NO.: GRAPHICS | PN: HERBSTSEW\01439\O&M | DWG DATE: 29DEC96


LEGEND
MONITORING WELL LOCATION
EXTRACTION WELL LOCATION
APPROXIMATE FORMER UST LOCATION
(869.35) GROUNDWATER ELEVATION (Feet Mean Sea Level)
870 GROUNDWATER CONTOUR (Dashed Where Inferred)
GRASS
870
869.5
GMMW-1 (869.02)
INDUSTRIAL DRIVE
APPROXIMATE PROPERTY LINE
868
869
870
GMMW-7 (870.48)
FORMER HERBST SERVICE STATION
GMMW-2 (869.35)
867
869.5
GMMW-8 (867.75)
GMMW-3 (869.72)
CREEK
GMMW-6 (869.99)
ASPHALT
GMMW-12 (869.60)
GMMW-13 (866.49)
GMRW-3
GMRW-2
GMMW-14 (869.75)
GMMW-9 (867.30)
GMMW-4 (869.34)
869
GMMW-5 (869.68)
GRASS
GRASS
GMMW-15 (868.64)
GMMW-16 (867.54)
STATE HIGHWAY 60
868
867
GRASS
GRASS
GMMW-10 (866.07)
866
GMMW-11 (864.34)
865
N
MUNICIPAL WELL #2
866
865
0 25 50 100
SCALE IN FEET
F&M BANK
SERVICE STATION
ARCADIS
GERAGHTY & MILLER
GROUNDWATER ELEVATIONS AND CONTOURS
MAY 18, 1998
FORMER HERBST SERVICE STATION
JACKSON, WISCONSIN
FIGURE
3
DRAFTER: ELS
APPROVED:
CHECKED: OBEAB
DRAWING: GW_51898.AI
FILE NO.: GRAPHICS
PN: HERBSTSEWI0143980&M
DWG DATE: 30DEC98

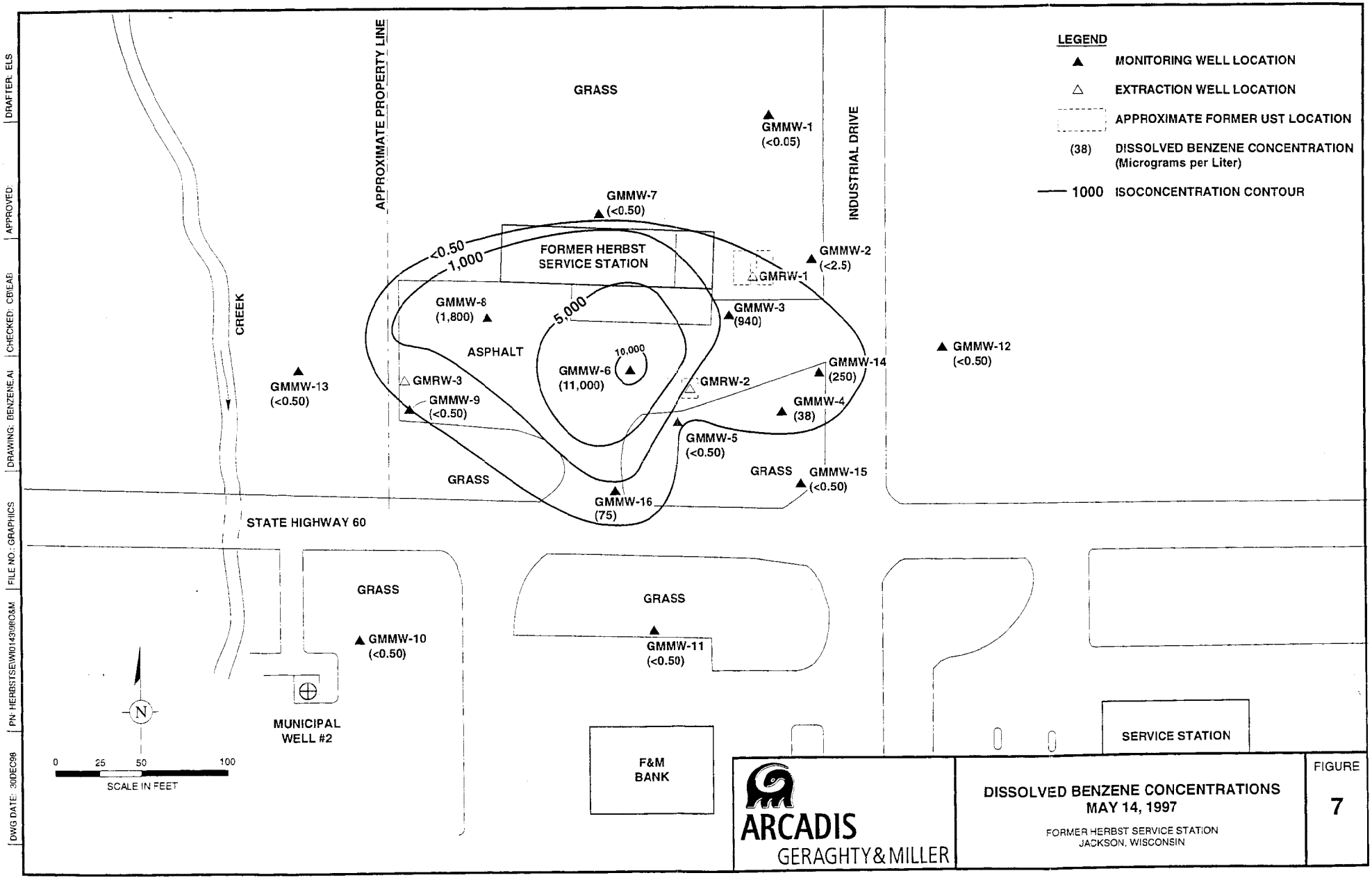

LEGEND
MONITORING WELL LOCATION
EXTRACTION WELL LOCATION
APPROXIMATE FORMER UST LOCATION
(38) DISSOLVED BENZENE CONCENTRATION (Micrograms per Liter)
1000 ISOCONCENTRATION CONTOUR
GRASS
GMMW-1 (<0.05)
INDUSTRIAL DRIVE
APPROXIMATE PROPERTY LINE
GMMW-7 (<0.50)
<0.50
1,000
FORMER HERBST SERVICE STATION
GMMW-2 (<2.5)
GMRW-1
GMMW-8 (1,800)
5,000
GMMW-3 (940)
ASPHALT
10,000
GMMW-6 (11,000)
GMMW-12 (<0.50)
GMMW-14 (250)
GMRW-3
GMRW-2
GMMW-13 (<0.50)
GMMW-9 (<0.50)
GMMW-4 (38)
GMMW-5 (<0.50)
CREEK
GRASS
GRASS
GMMW-15 (<0.50)
GMMW-16 (75)
STATE HIGHWAY 60
GRASS
GRASS
GMMW-10 (<0.50)
GMMW-11 (<0.50)
N
MUNICIPAL WELL #2
0 25 50 100
SCALE IN FEET
F&M BANK
SERVICE STATION
ARCADIS
GERAGHTY & MILLER
DISSOLVED BENZENE CONCENTRATIONS
MAY 14, 1997
FORMER HERBST SERVICE STATION
JACKSON, WISCONSIN
FIGURE
7
DRAFTER: ELS
APPROVED:
CHECKED: CB/EAB
DRAWING: BENZENE.AI
FILE NO.: GRAPHICS
PN: HERBSTSEWI014398/O&M
DWG DATE: 30DEC98

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number / Parameters	Sample Date							
	10/17/91	10/21/92	3/24/93	6/22/93	9/22/93	12/08/93	3/15/94	6/8/94
GMMW-1								
Benzene	<1	<1	<1	<0.7	1.4	<0.7	<0.7	<1.0
Toluene	<5	<1	<1	<1	1.3	<1	<1	<1.0
Ethylbenzene	<1	<1	<1	<0.9	1.4	<0.9	<0.9	<1.0
Total Xylenes	<2	<1	<1	<2.4	4.4	<2.4	<2.4	<3.0
1,2,4-Trimethylbenzene	<1	<1	<1	<1.8	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	<1	<1	<1	<0.9	1.5	<0.9	<0.9	<1.0
Methyl tert-butyl ether	<1	<5	<5	<4.6	<4.6	<4.6	<4.6	<1.0
GRO	1,600	--	<100	<100	<100	<100	<100	<20
GMMW-2								
Benzene	230	19	1	3.4	1.5	0.9	7	41
Toluene	<5	<1	2	1.5	3.2	1.9	<1	<1.0
Ethylbenzene	51	2	1	<0.9	1.1	<0.9	<0.9	2.2
Total Xylenes	190	13	10	<2.4	<2.4	<2.4	2.9	<3.0
1,2,4-Trimethylbenzene	40	2	9	<1.8	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	6	<1	3	<0.9	1.1	<0.9	<0.9	<1.0
Methyl tert-butyl ether	240	110	72	39	48	34	38.8	40
GRO	1,400	--	100	<100	<100	<100	<100	100
GMMW-3								
Benzene	740	980	600	750	600	110	452	820
Toluene	63	18	150	67	48	2.8	11	<10
Ethylbenzene	350	63	120	260	200	26	168	210
Total Xylenes	140	135	460	970	340	48	900	980
1,2,4-Trimethylbenzene	40	29	150	360	240	25	300	320
1,3,5-Trimethylbenzene	16	20	37	220	80	11	21.9	40
Methyl tert-butyl ether	<50	53	<50	72	<115	<4.6	19.4	29
GRO	<5,000	--	5,600	6,800	5,000	400	2,900	4,800
GMMW-4								
Benzene	93	390	140	64	86	53	105	110
Toluene	6	23	<25	2.5	10	3.2	10	3.8
Ethylbenzene	35	200	68	51	78	47	64	62
Total Xylenes	87	1,400	340	160	330	240	548	260
1,2,4-Trimethylbenzene	46	510	220	100	200	140	264	100
1,3,5-Trimethylbenzene	9	220	67	16	56	54	68	26
Methyl tert-butyl ether	17	28	<125	7.4	23	<4.6	<46	7.8
GRO	830	--	2,500	1,300	4,000	1,100	1,600	540

Footnotes included on Page 9.

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date										
Parameters	9/15/94	12/12-13/94	3/14/95	6/8, 7/10/95	9/12/95	12/28/95	3/8/96	6/13/96	5/14/97	11/13/97	5/18/98
GMMW-1											
Benzene	--	--	--	<1.0	--	--	--	<0.50	<0.50	--	--
Toluene	--	--	--	<1.0	--	--	--	<1.0	<0.5	--	--
Ethylbenzene	--	--	--	<1.0	--	--	--	<1.0	0.54	--	--
Total Xylenes	--	--	--	<3.0	--	--	--	<3.0	<0.5	--	--
1,2,4-Trimethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<1.0	--	--
1,3,5-Trimethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<1.0	--	--
Methyl tert-butyl ether	--	--	--	<1.0	--	--	--	<1.0	<0.2	--	--
GRO	--	--	--	<50	--	--	--	<50	<50	--	--
GMMW-2											
Benzene	<1.0	<1.0	<1.0	1.0	<0.50	1.5	<0.50	2.1	<2.5	<0.50	<0.50
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<0.50	<0.50
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<0.50	0.82
Total Xylenes	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<5.0	<0.50	2.4
1,2,4-Trimethylbenzene	<1.8	<1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	1.3
1,3,5-Trimethylbenzene	<0.9	<0.9	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0
Methyl tert-butyl ether	15.5	16.0	12.0	13	8.6	13	9.1	4.7	11	12	3.4
GRO	<100	<100	<50	<50	<50	<50	<50	<50	<25	--	--
GMMW-3											
Benzene	--	--	--	<1.0	--	--	--	440	940	--	--
Toluene	--	--	--	<1.0	--	--	--	3.8	40	--	--
Ethylbenzene	--	--	--	<1.0	--	--	--	42	40	--	--
Total Xylenes	--	--	--	<3.0	--	--	--	150	52	--	--
1,2,4-Trimethylbenzene	--	--	--	<1.0	--	--	--	72	38	--	--
1,3,5-Trimethylbenzene	--	--	--	<1.0	--	--	--	15	<3.3	--	--
Methyl tert-butyl ether	--	--	--	<1.0	--	--	--	40	100	--	--
GRO	--	--	--	<50	--	--	--	1,200	1,600	--	--
GMMW-4											
Benzene	11.7	93	130	44	16	--	--	100	38	34	76
Toluene	1.2	6	8.6	2.5	1.6	--	--	6.6	1.9	<25	<25
Ethylbenzene	3.4	46	63	33	7.8	--	--	120	46	58	130
Total Xylenes	9.6	385	290	170	26	--	--	640	220	280	570
1,2,4-Trimethylbenzene	5.0	169	31	100	13	--	--	380	180	250	<50
1,3,5-Trimethylbenzene	1.4	45	17	<80	2.8	--	--	<290	26	52	<50
Methyl tert-butyl ether	4.8	<23	<20	<1.0	<5.0	--	--	<1.0	10	<10	<10
GRO	200	1,800	1,500	800	210	--	--	3,000	1,300	--	--

Footnotes included on Page 10.

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date							
Parameters	10/17/91	10/21/92	3/24/93	6/22/93	9/22/93	12/08/93	3/15/94	6/8/94
GMMW-5								
Benzene	1,900	2,500	680	920	550	660	370	540
Toluene	1,100	180	47	33	84	36	93	29
Ethylbenzene	410	470	260	450	360	300	270	350
Total Xylenes	1,200	770	770	810	500	580	903	80
1,2,4-Trimethylbenzene	320	240	250	370	310	270	420	410
1,3,5-Trimethylbenzene	82	65	220	180	160	15	68	69
Methyl tert-butyl ether	53	510	190	190	130	65	87.3	74
GRO	8,300	--	8,200	7,800	7,000	3,100	3,900	4,800
GMMW-6								
Benzene	10,000	15,000	15,000	8,900	6,800	15,000	13,400	13,000
Toluene	1,500	810	2,400	600	280	1,700	778	950
Ethylbenzene	450	280	1,700	570	480	870	489	520
Total Xylenes	1,300	2,900	5,000	1,700	1,300	3,100	1,390	1,800
1,2,4-Trimethylbenzene	240	380	1,100	200	260	550	320	76
1,3,5-Trimethylbenzene	<100	<250	630	100	130	24	71	260
Methyl tert-butyl ether	420	420	560	320	470	70	15	380
GRO	<50,000	--	49,000	13,000	14,000	25,000	18,000	20,000
GMMW-7								
Benzene	<1	<1	<1	<0.7	<0.7	<0.7	<0.7	2.3
Toluene	<5	<1	<1	<1	<1	<1	<1	<1.0
Ethylbenzene	<1	<1	<1	<0.9	<0.9	<0.9	<0.9	<1.0
Total Xylenes	<2	<1	<1	<2.4	<2.4	<2.4	<2.4	<3.0
1,2,4-Trimethylbenzene	<1	<1	<1	<1.8	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	<1	<1	<1	<0.9	<0.9	<0.9	<0.9	<1.0
Methyl tert-butyl ether	<5	<5	<5	<4.6	<4.6	<4.6	<4.6	<1.0
GRO	1,500	--	<100	<100	<100	<100	<100	<20
GMMW-8								
Benzene	2,300	5,500	2,200	2,800	3,300	2,500	2,850	2,800
Toluene	130	60	48	87	86	150	90	110
Ethylbenzene	450	390	630	850	1,700	480	739	710
Total Xylenes	1,600	590	930	1,500	5,300	980	2,120	1,800
1,2,4-Trimethylbenzene	710	180	380	520	780	380	670	480
1,3,5-Trimethylbenzene	160	63	220	120	220	80	175	140
Methyl tert-butyl ether	<50	130	<125	<230	70	<230	27.4	<50
GRO	9,200	--	14,000	9,800	16,000	5,100	8,500	10,000

Footnotes included on Page 9.

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date										
Parameters	9/15/94	12/12-13/94	3/14/95	6/8, 7/10/95	9/12/95	12/28/95	3/8/96	6/13/96	5/14/97	11/13/97	5/18/98
GMMW-5											
Benzene	489	614	350	410	420	510	670	390	<0.50	--	--
Toluene	54.9	<50	120	48	25	110	360	230	<0.5	--	--
Ethylbenzene	445	362	270	320	300	370	560	430	270	--	--
Total Xylenes	836.8	581	520	990	360	1,100	2,000	2,400	290	--	--
1,2,4-Trimethylbenzene	538	329	250	440	290	370	670	790	460	--	--
1,3,5-Trimethylbenzene	57.9	<45	42	<300	<120	230	160	180	<1.0	--	--
Methyl tert-butyl ether	76.3	<230	64	<70	<75	71	65	<18	<0.2	--	--
GRO	6,800	6,000	4,000	4,000	2,900	5,500	8,000	7,800	39,000	--	--
GMMW-6											
Benzene	--	--	--	13,000	--	--	--	14,000	11,000	--	--
Toluene	--	--	--	1,400	--	--	--	7,000	620	--	--
Ethylbenzene	--	--	--	1,000	--	--	--	950	480	--	--
Total Xylenes	--	--	--	3,700	--	--	--	4,300	1,600	--	--
1,2,4-Trimethylbenzene	--	--	--	620	--	--	--	490	230	--	--
1,3,5-Trimethylbenzene	--	--	--	180	--	--	--	110	110	--	--
Methyl tert-butyl ether	--	--	--	370	--	--	--	210	1,700	--	--
GRO	--	--	--	27,000	--	--	--	28,000	12,000	--	--
GMMW-7											
Benzene	--	--	--	<1.0	--	--	--	<0.50	<0.50	<0.50	<0.50
Toluene	--	--	--	<1.0	--	--	--	<1.0	<0.50	<0.50	<0.50
Ethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<0.50	<0.50	<0.50
Total Xylenes	--	--	--	<3.0	--	--	--	<3.0	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	--	--	--	<1.0	--	--	--	<1.0	<0.20	<0.20	<0.20
GRO	--	--	--	<50	--	--	--	<50	<50	--	--
GMMW-8											
Benzene	2,700	3,290	1,500	2,400	2,200	1,600	2,600	2,100	1,800	--	--
Toluene	91.4	83	43	110	60	38	58	120	67	--	--
Ethylbenzene	769	829	310	770	610	480	720	1,000	870	--	--
Total Xylenes	1,860.5	1,830	730	1,900	1,200	1,000	1,700	2,900	1,800	--	--
1,2,4-Trimethylbenzene	569	527	280	520	360	320	530	750	510	--	--
1,3,5-Trimethylbenzene	156	112	62	120	95	61	150	170	150	--	--
Methyl tert-butyl ether	<46	<230	<10	<20	<10	130	<10	<13	70	--	--
GRO	10,200	9,000	4,400	7,300	5,000	6,200	7,000	10,000	7,400	--	--

Footnotes included on Page 10.

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date							
Parameters	10/17/91	10/21/92	3/24/93	6/22/93	9/22/93	12/08/93	3/15/94	6/8/94
GMMW-8 Duplicate								
Benzene	--	5,600	3,100	2,700	3,200	2,900	2,440	2,700
Toluene	--	57	57	73	73	7.2	106	100
Ethylbenzene	--	400	650	870	1,300	630	860	650
Total Xylenes	--	580	1,100	1,500	3,400	1,100	2,160	1,700
1,2,4-Trimethylbenzene	--	140	450	510	500	460	775	450
1,3,5-Trimethylbenzene	--	140	260	120	210	31	205	130
Methyl tert-butyl ether	--	130	<125	<230	74	<4.6	46	<50
GRO	--	--	12,000	9,400	7,000	6,600	8,600	9,200
GMMW-9								
Benzene	<1	<1	5	<0.7	<0.7	<0.7	<0.7	<1.0
Toluene	<5	<1	<1	1.5	<1	2.0	<1	<1.0
Ethylbenzene	<1	<1	2	1.0	<0.9	<0.9	<0.9	<1.0
Total Xylenes	<2	<1	5	<2.4	<2.4	<2.4	<2.4	<3.0
1,2,4-Trimethylbenzene	<1	<1	5	5.7	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	<1	<1	5	1.1	<0.9	<0.9	<0.9	<1.0
Methyl tert-butyl ether	<5	<5	<5	<4.6	<4.6	<4.6	<4.6	<1.0
GRO	<500	--	200	690	<100	<100	<100	25
GMMW-10								
Benzene	<1	<1	<1	<0.7	<0.7	<0.7	8.3	<1.0
Toluene	<5	<1	<1	<1	<1	<1	2.1	<1.0
Ethylbenzene	<1	<1	<1	<0.9	<0.9	<0.9	1.5	<1.0
Total Xylenes	<2	<1	<1	<2.4	<2.4	<2.4	3.8	<3.0
1,2,4-Trimethylbenzene	<1	<1	<1	<1.8	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	<1	<1	<1	<0.9	<0.9	<0.9	<0.9	<1.0
Methyl tert-butyl ether	<5	<5	<5	<4.6	<4.6	<4.6	<4.6	<1.0
GRO	<500	--	<100	<100	<100	<100	<100	<20
GMMW-11								
Benzene	<1	<1	<1	<0.7	<0.7	<0.7	<0.7	<1.0
Toluene	<5	<1	<1	<1	<1	<1	<1	<1.0
Ethylbenzene	<1	<1	<1	<0.9	<0.9	<0.9	<0.9	<1.0
Total Xylenes	<2	<1	<1	<2.4	<2.4	<2.4	<2.4	<3.0
1,2,4-Trimethylbenzene	<1	<1	<1	<1.8	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	<1	<1	<1	<0.9	<0.9	<0.9	<0.9	<1.0
Methyl tert-butyl ether	<5	<5	<5	<4.6	<4.6	<4.6	<4.6	<1.0
GRO	<500	--	<100	<100	<100	<100	<100	<20

Footnotes included on Page 9.

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date										
Parameters	9/15/94	12/12-13/94	3/14/95	6/8, 7/10/95	9/12/95	12/28/95	3/8/96	6/13/96	5/14/97	11/13/97	5/18/98
GMMW-8 Duplicate											
Benzene	3,430	3,280	2,000	2,600	2,000	1,600	--	--	--	--	--
Toluene	90.8	75	63	120	56	38	--	--	--	--	--
Ethylbenzene	696	829	600	560	630	490	--	--	--	--	--
Total Xylenes	2,866	1,840	1,500	2,000	1,400	1,100	--	--	--	--	--
1,2,4-Trimethylbenzene	590	549	540	450	380	340	--	--	--	--	--
1,3,5-Trimethylbenzene	166	129	130	140	110	64	--	--	--	--	--
Methyl tert-butyl ether	<46	<230	<10	<20	<10	130	--	--	--	--	--
GRO	12,100	9,000	7,900	7,800	5,800	6,200	--	--	--	--	--
GMMW-9											
Benzene	<1.0	<1.0	<1.0	<1.0	--	--	--	<0.50	<0.50	<0.50	10
Toluene	1.0	<1.0	<1.0	<1.0	--	--	--	<1.0	<0.50	<0.50	1.9
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	--	--	--	<1.0	<0.50	<0.50	<0.50
Total Xylenes	<3.0	<3.0	<3.0	<3.0	--	--	--	<3.0	<0.50	<0.50	1.3
1,2,4-Trimethylbenzene	<1.8	<1.8	<1.0	<1.0	--	--	--	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	--	--	--	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	<4.6	<4.6	<1.0	<1.0	--	--	--	<1.0	<0.20	<2.0	<0.20
GRO	<100	<100	<50	<50	--	--	--	<50	<50	--	--
GMMW-10											
Benzene	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	--	--
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	--	--
Total Xylenes	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<0.50	--	--
1,2,4-Trimethylbenzene	<1.8	<1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	--	--
Methyl tert-butyl ether	<4.6	<4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	--	--
GRO	<100	<100	<50	<50	<50	<50	<50	<50	<50	--	--
GMMW-11											
Benzene	<1.0	<1.0	<1.0	<1.0	--	--	--	<0.50	<0.50	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	--	--	--	<1.0	<0.50	--	--
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	--	--	--	<1.0	<0.50	--	--
Total Xylenes	<3.0	<3.0	<3.0	<3.0	--	--	--	<3.0	<0.50	--	--
1,2,4-Trimethylbenzene	<1.8	<1.8	<1.0	<1.0	--	--	--	<1.0	<1.0	--	--
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	--	--	--	<1.0	<1.0	--	--
Methyl tert-butyl ether	<4.6	<4.6	<1.0	<1.0	--	--	--	<1.0	<0.20	--	--
GRO	<100	<100	<50	<50	--	--	--	<50	<50	--	--

Footnotes included on Page 10.

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number / Parameters	Sample Date							
	10/17/91	10/21/92	3/24/93	6/22/93	9/22/93	12/08/93	3/15/94	6/8/94
GMMW-12								
Benzene	<1	<1	2	<0.7	0.9	<0.7	<0.7	<1.0
Toluene	<5	<1	<1	<1	1.2	<1	<4.6	<1.0
Ethylbenzene	<1	<1	<1	<0.9	<0.9	<0.9	<0.9	<1.0
Total Xylenes	<2	<1	1	<2.4	2.9	<2.4	<2.4	<3.0
1,2,4-Trimethylbenzene	<1	<1	<1	<1.8	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	<1	<1	<1	<0.9	1.2	<0.9	<0.9	<1.0
Methyl tert-butyl ether	<5	<5	<5	<4.6	<4.6	<4.6	<4.6	<1.0
GRO	<500	--	<100	<100	<100	<100	<100	<20
GMMW-13								
Benzene	--	<1	<1	<0.7	0.8	<0.7	<0.7	<1.0
Toluene	--	<1	<1	<1	<1	<1	<1	<1.0
Ethylbenzene	--	<1	<1	<0.9	<0.9	<0.9	<0.9	<1.0
Total Xylenes	--	<1	<1	<2.4	<2.4	<2.4	<2.4	<3.0
1,2,4-Trimethylbenzene	--	<1	<1	<1.8	<1.8	<1.8	<1.8	<1.0
1,3,5-Trimethylbenzene	--	<1	<1	<0.9	1.2	<0.9	<0.9	<1.0
Methyl tert-butyl ether	--	<5	<5	<4.6	<4.6	<4.6	<4.6	<1.0
GRO	--	--	<100	<100	<100	<100	<100	<20
GMMW-14								
Benzene	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Total Xylenes	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--
GRO	--	--	--	--	--	--	--	--
GMMW-15								
Benzene	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Total Xylenes	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--
GRO	--	--	--	--	--	--	--	--

Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date										
Parameters	9/15/94	12/12-13/94	3/14/95	6/8, 7/10/95	9/12/95	12/28/95	3/8/96	6/13/96	5/14/97	11/13/97	5/18/98
GMMW-12											
Benzene	--	--	--	<1.0	--	--	--	<0.50	<0.50	--	--
Toluene	--	--	--	<1.0	--	--	--	<1.0	<0.50	--	--
Ethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<0.50	--	--
Total Xylenes	--	--	--	<3.0	--	--	--	<3.0	<0.50	--	--
1,2,4-Trimethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<1.0	--	--
1,3,5-Trimethylbenzene	--	--	--	<1.0	--	--	--	<1.0	<1.0	--	--
Methyl tert-butyl ether	--	--	--	<1.0	--	--	--	<1.0	<0.20	--	--
GRO	--	--	--	<50	--	--	--	<50	<50	--	--
GMMW-13											
Benzene	<1.0	<1.0	<1.0	<1.0	--	<0.50	<0.50	<0.50	<0.50	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<0.50	--	--
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<0.50	--	--
Total Xylenes	<3.0	<3.0	<3.0	<3.0	--	<3.0	<3.0	<3.0	<0.50	--	--
1,2,4-Trimethylbenzene	<1.8	<1.8	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	--	--
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	--	--
Methyl tert-butyl ether	<4.6	<4.6	<1.0	<1.0	--	<1.0	<1.0	<1.0	<0.20	--	--
GRO	<100	<100	<50	<50	--	<50	<50	<50	<50	--	--
GMMW-14											
Benzene	--	--	--	--	--	--	--	--	250	410	220
Toluene	--	--	--	--	--	--	--	--	<50	<25	<25
Ethylbenzene	--	--	--	--	--	--	--	--	830	560	480
Total Xylenes	--	--	--	--	--	--	--	--	3,000	1,500	1,400
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--	1,600	840	820
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--	530	160	170
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	170	<10	<10
GRO	--	--	--	--	--	--	--	--	13,000	--	--
GMMW-15											
Benzene	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Toluene	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Ethylbenzene	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Total Xylenes	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	6.3	10	7.40
GRO	--	--	--	--	--	--	--	--	<50	--	--

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Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date							
Parameters	10/17/91	10/21/92	3/24/93	6/22/93	9/22/93	12/08/93	3/15/94	6/8/94
Footnotes included on Page 9.								
GMMW-16								
Benzene	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Total Xylenes	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--
GRO	--	--	--	--	--	--	--	--

-- Analyses not performed for that location on that date.

< Indicates not detected at or above the laboratory quantitation limit (the numerical value following the < symbol).

During the June 8, 1995 sampling round, samples were not collected from Monitoring Wells GMMW-1, GMMW-3, GMMW-6, GMMW-7 and GMMW-12. These wells were subsequently sampled on July 10, 1995.

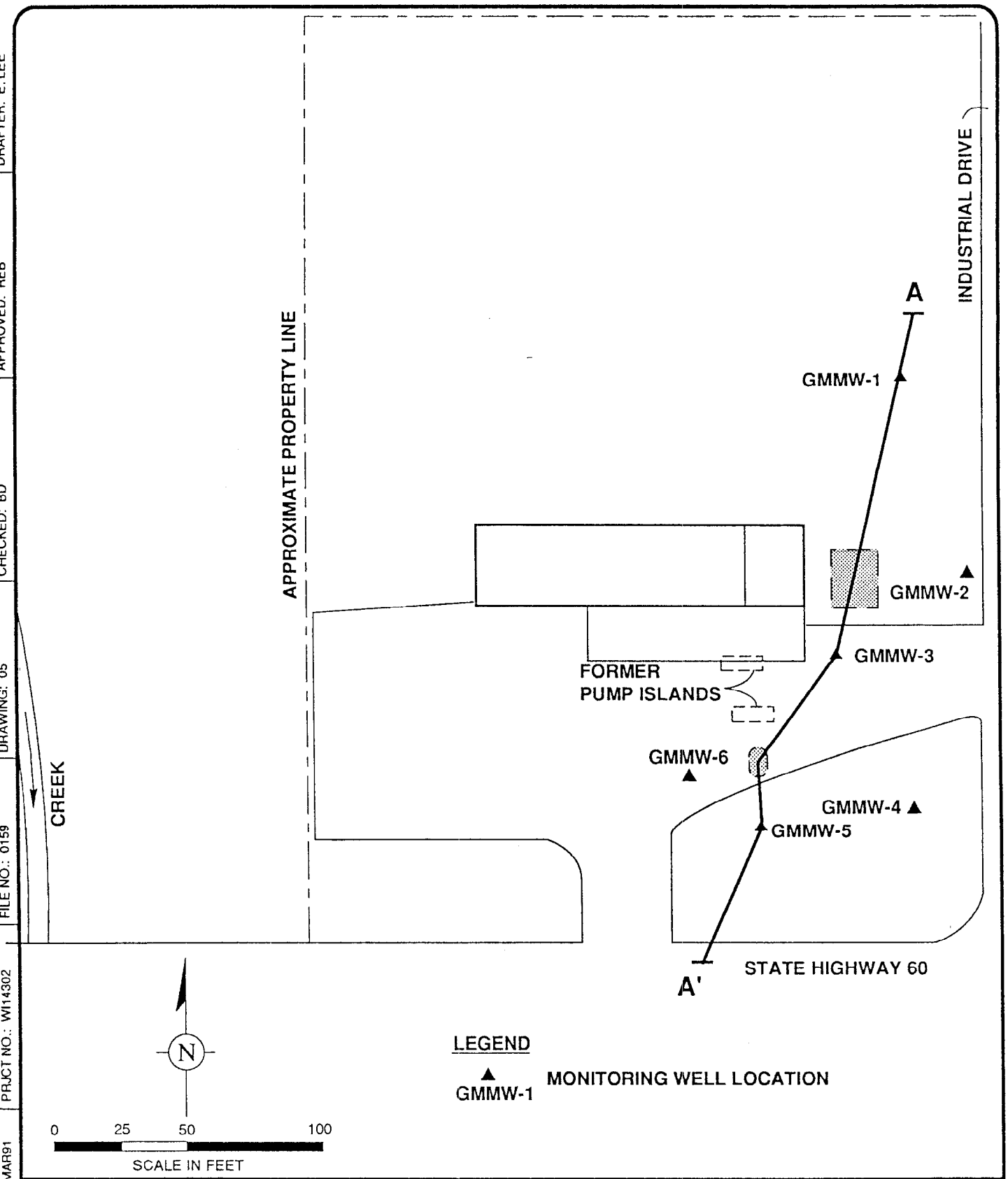
Table 2. Historical Groundwater Sample Analytical Results, Former Herbst Service Station, Jackson, Wisconsin.

Well Number	Sample Date										
Parameters	9/15/94	12/12-13/94	3/14/95	6/8, 7/10/95	9/12/95	12/28/95	3/8/96	6/13/96	5/14/97	11/13/97	5/18/98
Footnotes included on Page 10.											
GMMW-16											
Benzene	--	--	--	--	--	--	--	--	75	52	73
Toluene	--	--	--	--	--	--	--	--	3.9	2.8	8.4
Ethylbenzene	--	--	--	--	--	--	--	--	5.8	1.2	20
Total Xylenes	--	--	--	--	--	--	--	--	29	8.6	58
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--	2.8	<1.0	<10
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--	3.2	1.5	<10
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	14	7.4	<2.0
GRO	--	--	--	--	--	--	--	--	220	--	--

-- Analyses not performed for that location on that date.

< Indicates not detected at or above the laboratory quantitation limit (the numerical value following the < symbol).

During the June 8, 1995 sampling round, samples were not collected from Monitoring Wells GMMW-1, GMMW-3, GMMW-6, GMMW-7 and GMMW-12. These wells were subsequently sampled on July 10, 1995.



DRAFTER: E. LEE
APPROVED: REB
CHECKED: BD
DRAWING: 05
FILE NO.: 0159
PRJCT NO.: WI14302
DWG DATE: 05MAR91

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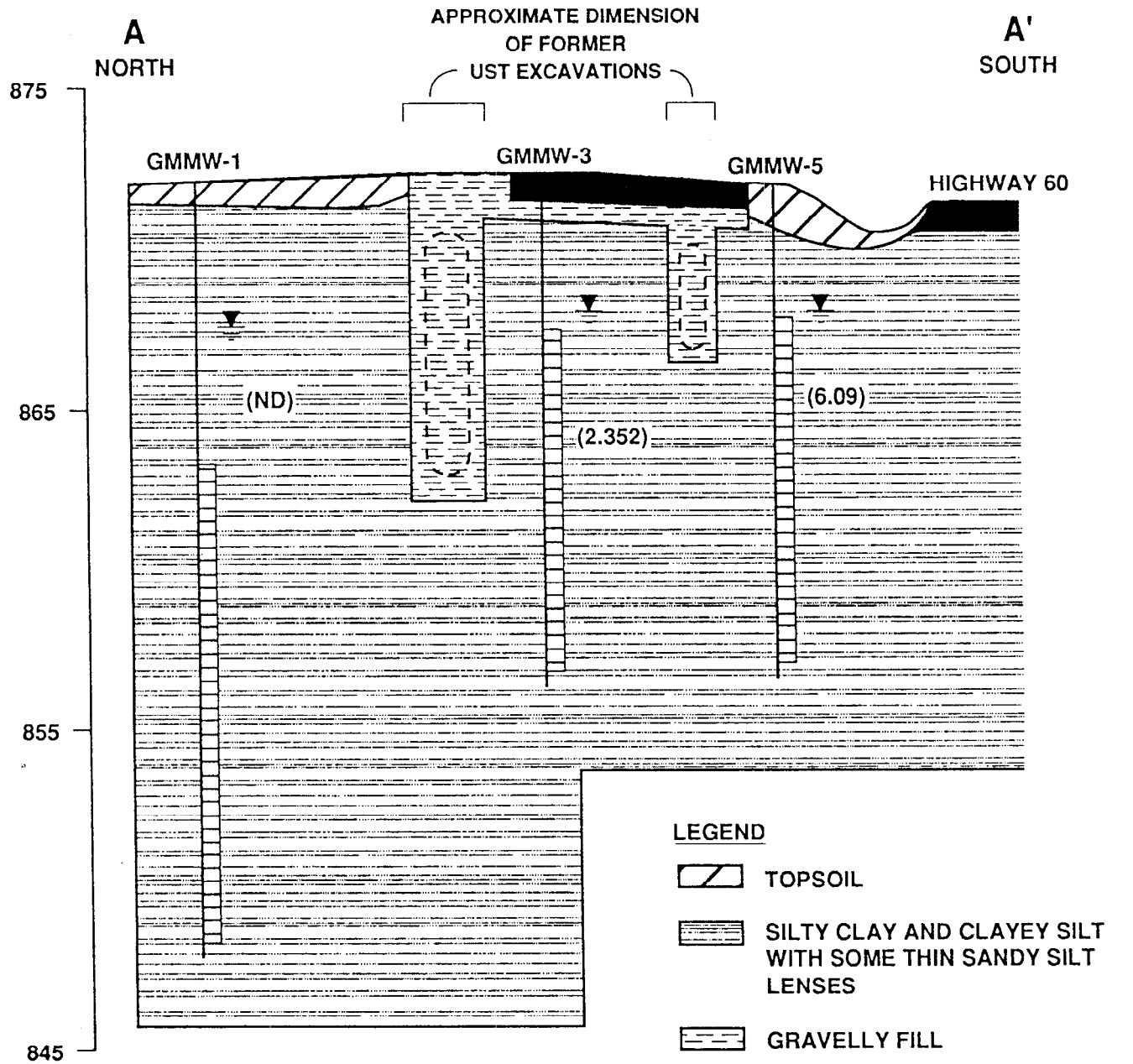
GEOLOGIC CROSS-SECTION LOCATION MAP

FORMER HERBST SERVICE
JACKSON, WISCONSIN

FIGURE
7



LEGEND

- TOPSOIL
- SILTY CLAY AND CLAYEY SILT WITH SOME THIN SANDY SILT LENSES
- GRAVELLY FILL
- ASPHALT
- WATER LEVEL JANUARY 3, 1991
- (6.09) BTEX COMPOUNDS (ppm) DETECTED DURING GROUNDWATER SAMPLING
- (ND) BTEX COMPOUNDS NOT DETECTED DURING GROUNDWATER SAMPLING

0 50 100

HORIZONTAL SCALE IN FEET
VERTICAL EXAGGERAGTION = 10x

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NORTH TO SOUTH GEOLOGIC CROSS-SECTION

FROMER HERBST SERVICE
JACKSON, WISCONSIN

FIGURE
6

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DRAWING: 10
FILE NO.: 0159
PRJCT NO.: wi14302
DWG DATE: 29APR91