GIS REGISTRY INFORMATION

SITE NAME:	Don Winkler/Kiel Mobil		
BRRTS #:	03-36-000911	**FID # (if appropriate):**	
COMMERCE # (if appropriate):	53042-1755-84		
CLOSURE DATE:	November 14, 2003		
STREET ADDRESS:	84 E Park Ave		
CITY:	Kiel		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =**	678651		**Y =**	384997		
CONTAMINATED MEDIA:	Groundwater		Soil		Both	X	
OFF-SOURCE GW CONTAMINATION >ES:		**Yes**			**No**	X	
• **IF YES, STREET ADDRESS:**							
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**			
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):		**Yes**			**No**	X	
• **IF YES, STREET ADDRESS 1:**							
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**			
CONTAMINATION IN RIGHT OF WAY:	**Yes**	X			**No**		

DOCUMENTS NEEDED

Closure Letter, and any conditional closure letter issued	X
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	X
County Parcel ID number, *if used for county*, for all affected properties	X
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	X
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	
GW: Table of water level elevations, with sampling dates, and free product noted if present	X
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	X
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	X
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)	X
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	X
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	X

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

November 14, 2003

Mr. Don Winkler
P.O. Box 70
Chilton, WI 53014

RE: **Final Closure**

Commerce # 53042-1755-84 WDNR BRRTS # 03-36-000911
Don Winkler/Kiel Mobil, 84 East Park Avenue, Kiel

Dear Mr. Winkler:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5376.

Sincerely,

Linda M. Michalets
Hydrogeologist
Site Review Section

cc: Ms. Vicki Bellows, Moraine Environmental, Inc.
Case File

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
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Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

September 15, 2003

Mr. Don Winkler
P.O. Box 70
Chilton, WI 53014

RE: **Conditional Case Closure**

Commerce # 53042-1755-84 WDNR BRRTS # 03-36-000911
Kiel Mobil, 84 East Park Avenue, Kiel

Dear Mr. Winkler:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Moraine Environmental, Inc., for the site referenced above. It is understood that residual soil and groundwater contamination remains on-site. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following conditions must be satisfied to obtain final closure:

- A deed restriction must be placed on the property deed to prevent direct contact exposure to shallow petroleum contaminated soil that remains within four feet of the ground surface. For this site, the deed restriction requires the preservation and maintenance of a surface barrier over the shallow residual soil contamination. Provide Commerce with a copy of the deed restriction showing the County Register of Deeds' recording information. The deed restriction must include Figure 3, "Extent of Impacted Soil Map" from the closure request, which indicates where residual contamination remains.

  An example "Notice of Contamination to Property" that has been prepared for your site is enclosed for your use. If you wish to modify the language, submit a draft copy to me at the letterhead address for approval before recording. If an electronic copy of the "Notice of Contamination to Property" is desired, you may contact me and a copy will be forwarded to you.

- The nine monitoring wells must be properly abandoned and the appropriate documentation forwarded to me at the letterhead address.

This letter serves as your written notice of "no further action". Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement. Costs associated with recording deed notices or other restrictions are not eligible for PECFA reimbursement, and the recording of these notices should not delay the claim submittal process.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5376.

Sincerely,

Linda M. Michalets
Hydrogeologist
Site Review Section

Enclosure: Draft "Notice of Contamination to Property"

cc: Mr. Thomas Sweet, Moraine Environmental, Inc.
Case File

Document No.

WARRANTY DEED

This Space Reserved for Recording Data

Return To:
Mr. Timothy M. Dempsey
Firstar Bank Building
P.O. Box 886
Oshkosh, WI 54902-0886

Don L. Winkler, a married man, and C. M. Thiel, a married man convey and warrant to **B. Kent Bauman** the following described real estate in Manitowoc County, State of Wisconsin:

PARCEL 1:

Lot Numbered Two (2) of a Certified Survey in Lot Numbered Seventeen (17) of Block Numbered Three (3) of Raider Heights in the City of Kiel, as recorded in the Office of the Register of Deeds for Manitowoc County, Wisconsin, in Volume 12 of Certified Survey Maps on page 31, as Document No. 655297.

PARCEL 2:

A non-exclusive driveway easement over the South One Hundred Twenty (120) feet of the East Twenty-five (25) feet of Lot 1 of Certified Survey recorded in Volume 12 of Certified Survey Maps, page 31, #655297 created by Easement recorded in the Office of the Register of Deeds for Manitowoc County, Wisconsin in Volume 871 of Records, page 339, #655548.

Tax Key No. 51-895-003-017.01

This is not homestead property.

Grantor warrants good title to the above described property, free and clear of all liens and encumbrances except municipal and zoning ordinances and all easements and restrictions of record.

Dated this 18th day of March, 1996.

DON L. WINKLER

C. M. THIEL

AUTHENTICATION

Signatures of Don L. Winkler and C. M. Thiel authenticated this 18th day of March, 1996.

JAMES P. BURNETT
Title: Member, State Bar of Wisconsin

This Instrument was Drafted by
Attorney James P. Burnett.

W B A 233 (3/31/95) F11063

©Wisconsin Bankers Association 1995

532

DOCUMENT NO.

767265

RECEIVED FOR RECORD
VOL. 1161 PAGE 532
'96 MAR 20 AM 10 33
MANITOWOC COUNTY, WI
PRESTON JONES
REGISTER OF DEEDS

SATISFACTION OF REAL ESTATE MORTGAGE - BY LENDER

The undersigned Lender certifies that the following is fully paid and satisfied:

Mortgage executed by DON L. WINKLER and C. M. THIEL

to Lender and recorded in the office of the Register of Deeds

of MANITOWOC (Rest) County, Wis., as Doc. No. 656855 (Records) (Image),
in (Vol.) 874 of (Mtgs), on (page) 341,
covering the real estate described below:

Recording Area 10,000#

Name and Return Address

~~C.M. THIEL~~
~~F & M BANK - KIEL~~
~~514 FREMONT ST.~~
~~KIEL, WI 53042~~

Atty. Jim Burnett
P.O. Box 146
Chilton, WI 53014

ENV

Parcel Identifier No.

Lot Numbered Two (2) of a Certified Survey in Lot Numbered Seventeen (17) of Block Numbered Three (3) of Raider Heights in the City of Kiel, as recorded in the Office of the Register of Deeds for Manitowoc County, Wisconsin, in Volume 12 of Certified Survey Maps on page 31, as Document No. 655297.

☒ If checked here, real estate description continues or appears on attached sheet.

STATE OF WISCONSIN

County of MANITOWOC

This instrument was acknowledged before me

on March 18, 1996,

by AUDREY MERTENS and MILDRED THIELMAN
(Names of person(s))

as PRESIDENT and LOAN OFFICER
(Type of authority, e.g., officer, trustee, etc. if any)

of F & M BANK - KIEL
(Name of party on behalf of whom instrument was executed)

Mary Olm

* MARY OLM

Notary Public, Wisconsin
My Commission (Expires) (Is) MAY 25, 1997.

Dated March 18, 1996.

F & M BANK - KIEL
NAME OF LENDER

By Audrey Mertens

Title PRESIDENT

* AUDREY MERTENS

Attest Mildred Thielman

Title LOAN OFFICER

* MILDRED THIELMAN

This instrument was drafted by:

F & M BANK - KIEL
(TYPE OR PRINT)

*Type or print name signed above.

STATE OF WISCONSIN)
MANITOWOC COUNTY) SS

SURVEYOR'S CERTIFICATE:

I, Patrick L. Worden, Wisconsin Registered Land Surveyor of Aero-Metric Engineering, Inc., certify that, under the direction of Mr. William McCardell, I have surveyed, divided, and mapped all of Lot 17, Block 3 of Raider Heights Subdivision of Section 19, Township 17 North, Range 21 East, City of Kiel, Manitowoc County, Wisconsin, containing 2.086 acres of land and being described as:

All of said Lot 17, as recorded in Cabinet "C", Page 70 of Plats, Manitowoc County Records, Document Number 651132.

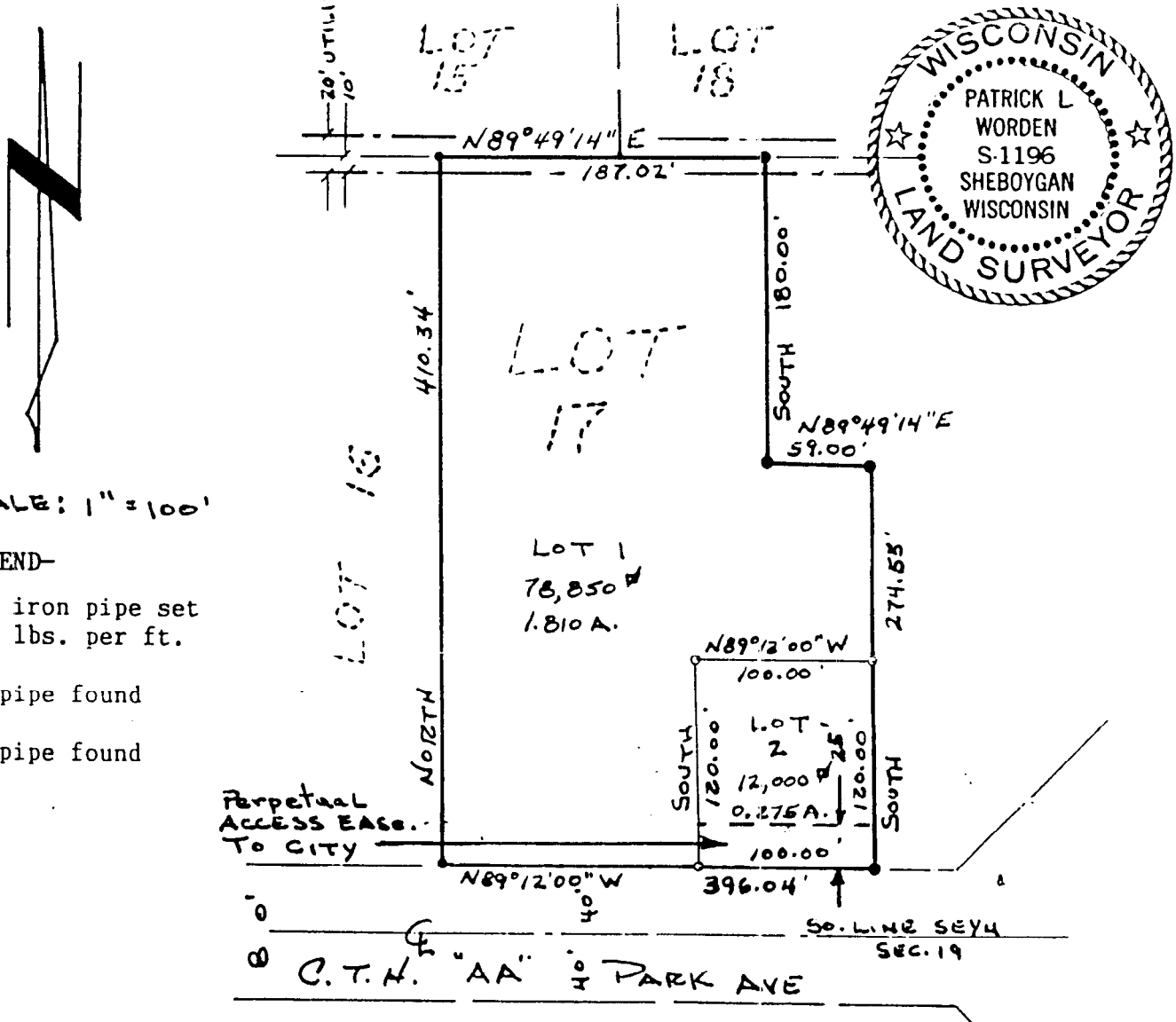
That such is a correct representation of all exterior boundaries of the land surveyed.

That I have fully complied with the provisions of Chapter 236.34 of the Wisconsin Statutes and the Land Subdivision Ordinance of Manitowoc County in surveying and mapping the same.

Dated this 8TH day of MAY, 1989.

Patrick L. Worden
Wisconsin Registered Land Surveyor, S-1196
Patrick L. Worden

WISCONSIN
PATRICK L
WORDEN
S-1196
SHEBOYGAN
WISCONSIN
LAND SURVEYOR



SCALE: 1" = 100'

-LEGEND-

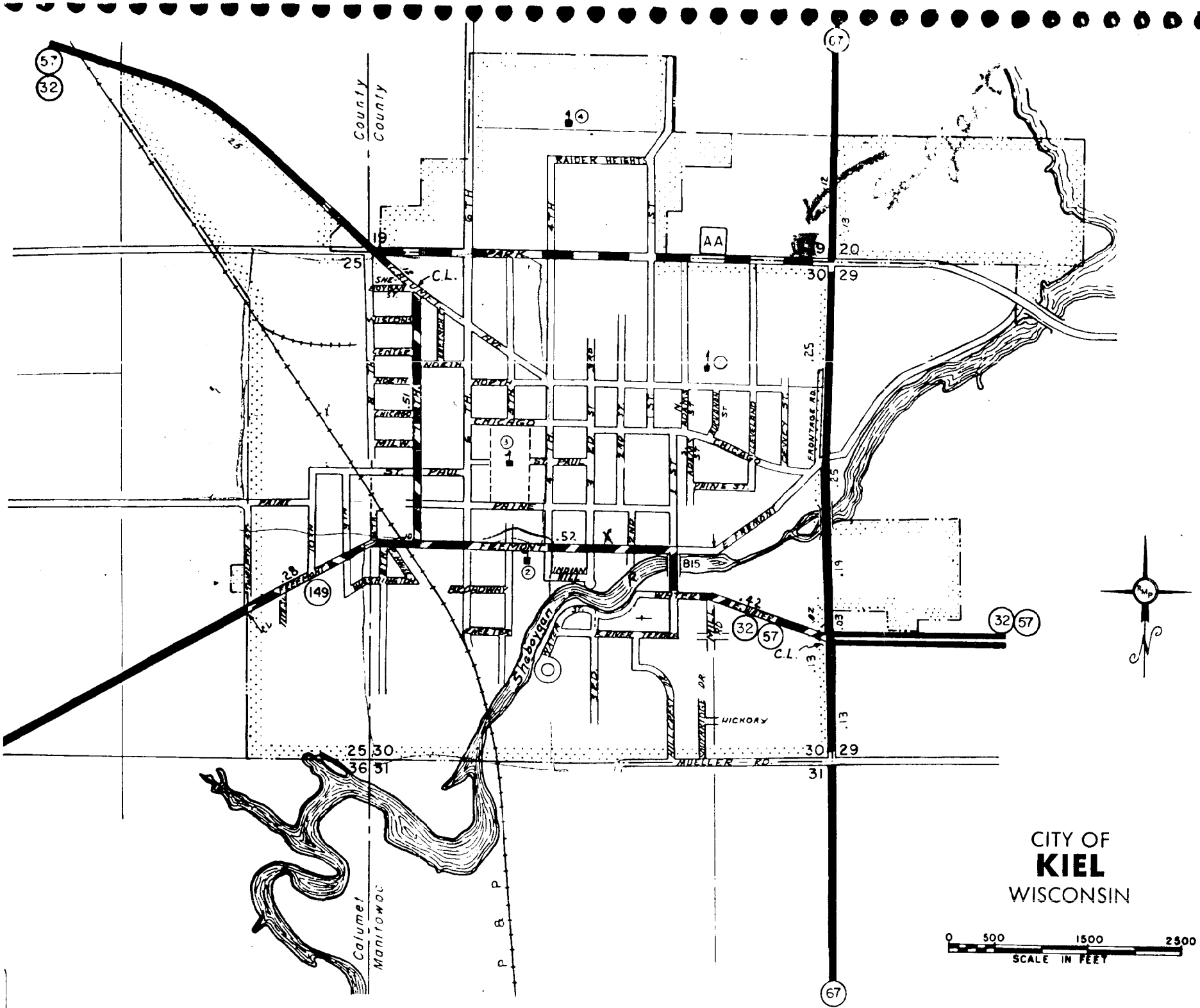
= 1" X 24" iron pipe set wt. 1.13 lbs. per ft.

= 1" iron pipe found

= 2" iron pipe found

Aero-metric

Patrick L. Worden



CITY OF
KIEL
WISCONSIN

0 500 1500 2500
SCALE IN FEET

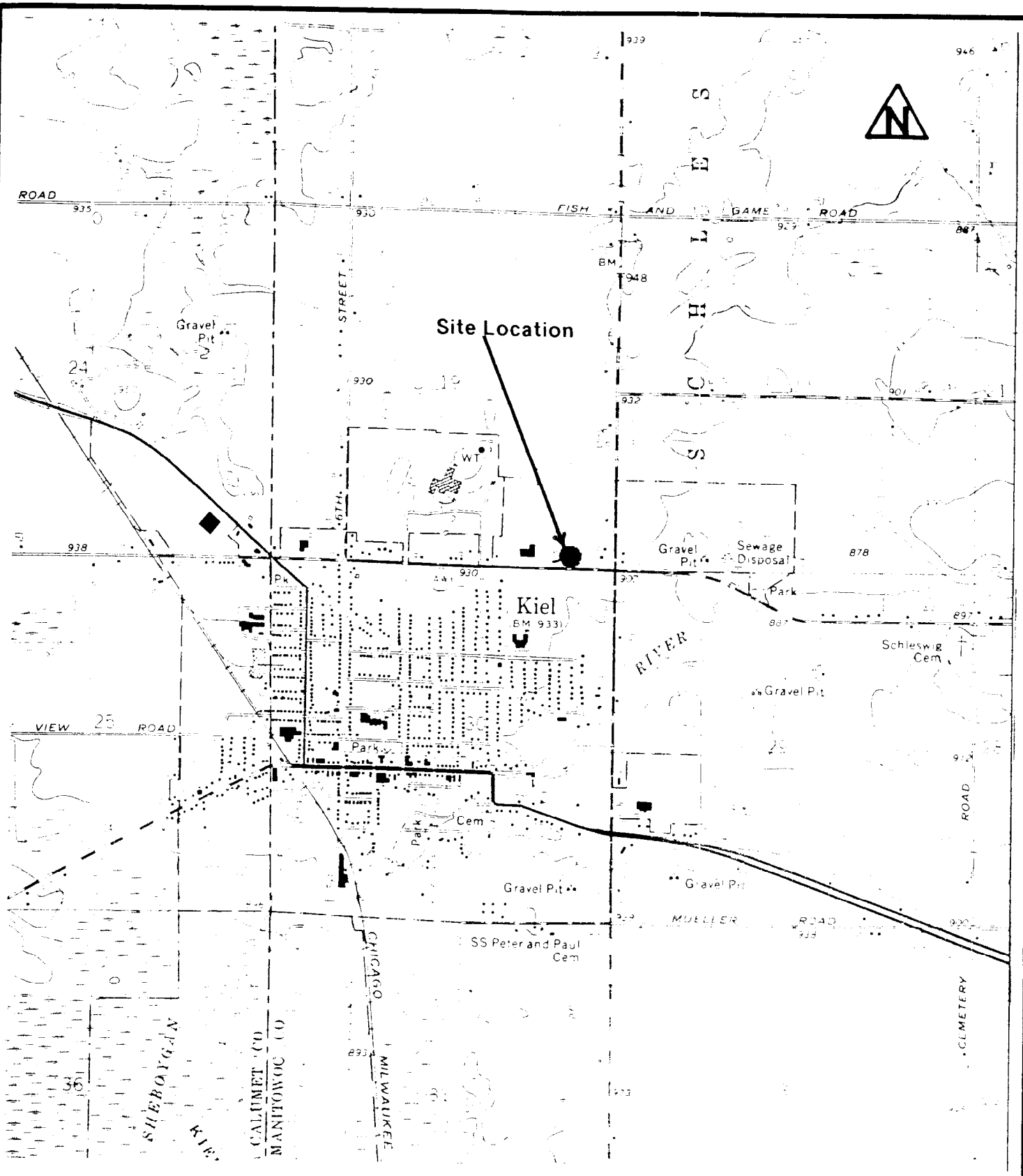


Figure 1–1

SITE LOCATION

Kiel Mobil

84 East Park Avenue

Kiel, Wisconsin

scale: 1 : 24 000

date: 10/22/92

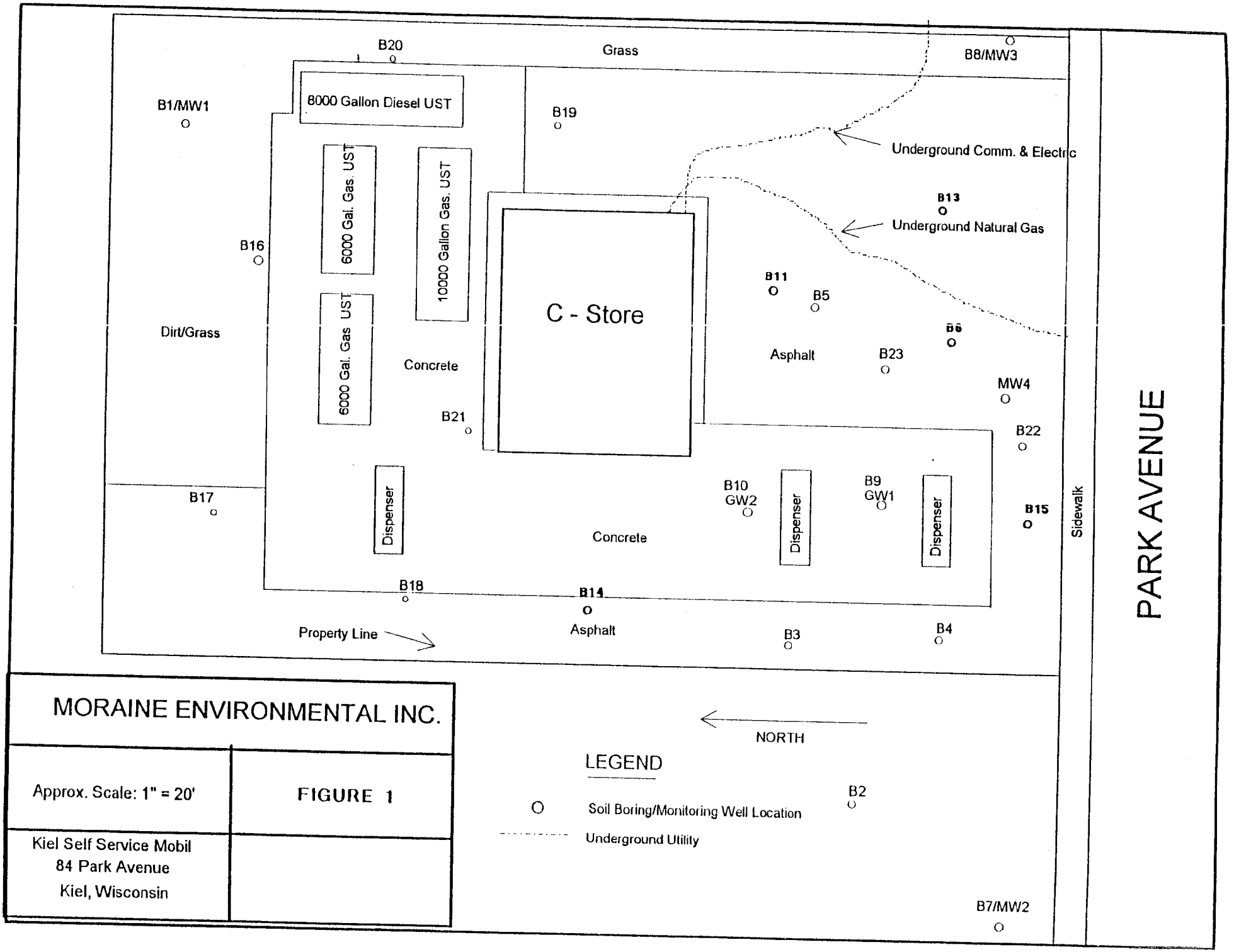
source: Kiel WI 15' Quadrangle, 1974

Cooper

ENVIRONMENTAL RESOURCES INC

1411 North Main Street West Bend, Wisconsin

drawn by PDF



MORAINE ENVIRONMENTAL INC.	
Approx. Scale: 1" = 20'	FIGURE 1
Kiel Self Service Mobil 84 Park Avenue Kiel, Wisconsin	

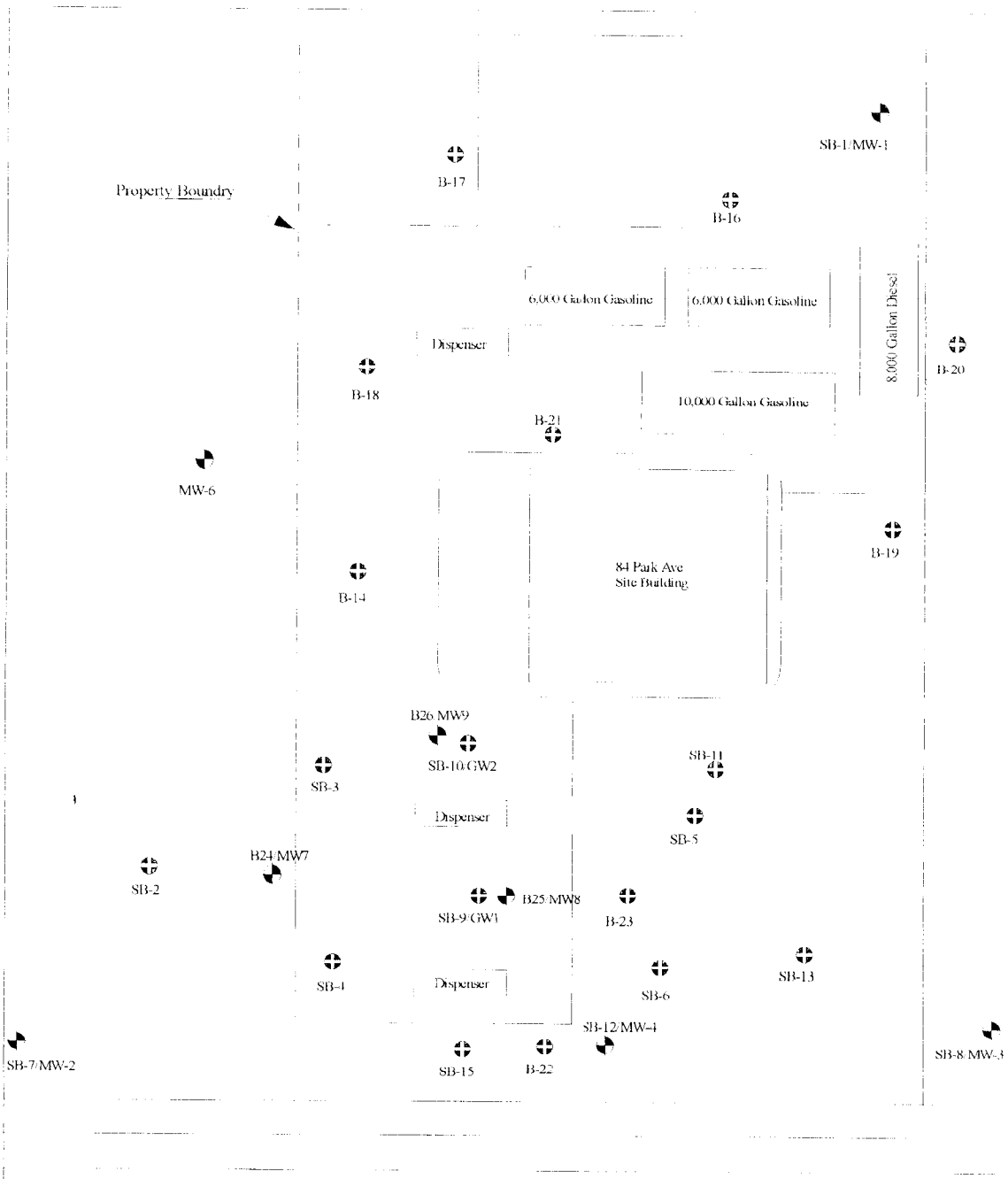

SB-1/MW-1
B-17
Property Boundry
B-16
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
B-20
B-18
10,000 Gallon Gasoline
B-21
MW-6
B-19
84 Park Ave
Site Building
B-14
B26/MW9
SB-10/GW2
SB-11
SB-3
Dispenser
SB-5
B24/MW7
SB-2
B25/MW8
SB-9/GW1
B-23
SB-13
SB-4
Dispenser
SB-6
SB-12/MW-4
SB-7/MW-2
SB-15
B-22
SB-8/MW-3
Park Avenue
MW-5
0
10
20
Scale 1" = 20'
Soil Boring
Monitoring Well
N
Boring/Monitoring Well Location Map
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
1106
1" – 20'
4/3/03
Moraine Environmental, Inc
Figure 1

TABLE 2
GROUNDWATER QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D.	GW-1							GW-2							NR140	NR140
Collection Date	10/5/94	2/12/97	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	10/5/94	2/12/97	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	ES	PAL
GRO (mg/L)	58,000	NA	NA	NA	NA	NA	NA	6,100	NA	NA	NA	NA	NA	NA	**NSE**	***NSE***
DRO (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NSE**	***NSE***
Lead, Total (ug/L)	ND	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	**15.0**	***1.5***
Detected VOC's (ug/L)																
Benzene	**9,100**	**3,600**	**480**	**1,200**	**620**	**3,000**	**2,400**	**4,400**	**4,500**	**5,000**	**4,700**	**7,900**	**4,400**	**4,600**	**5.0**	***0.5***
Ethylbenzene	**3,700**	**2,400**	***160***	**730**	**530**	**2,600**	**1,600**	***490***	**1,400**	**1,600**	**1,300**	**2,400**	**2,000**	**1,000**	**700**	***140***
Methyl-tert-butyl-ether	ND	ND	ND	**110**	**36**	**200**	**190**	ND	ND	ND	**900**	**620**	**640**	**550**	**60**	***12***
Naphthalene	**890**	**700**	**48**	**180**	**130**	**770**	**630**	***30***	**240**	**290**	**190**	**350**	**600**	**220**	**40**	***8***
Toluene	**5,900**	**6,800**	**400**	**540**	**360**	**1,300**	**600**	***85***	**3,200**	**1,500**	**2,500**	**5,800**	**1,700**	**750**	**343**	***69***
Trimethylbenzenes (1,2,4-1,3,5-)	**3,450**	**2,800**	**115**	**650**	**510**	**2,790**	**2,720**	ND	**820**	**1,080**	**730**	**2,520**	**3,400**	**1,020**	**480**	***96***
Total Xylenes (m,p,o)	***19,000***	***13,600***	**910**	**4,400**	**2,640**	**13,600**	**10,300**	108	**3,400**	**4,800**	**3,600**	**11,100**	**9,100**	**3,800**	**620**	***124***

Notes

mg/L = milligrams per liter = parts per million (ppm)

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

NA - Not Analyzed Q - parameter detected below quantitative limit (qualified results)

NSE - No Standard Established ND - No Detect

ES = NR140.10 Enforcement Standard

PAL = NR140.10 Preventative Action Limit

OUTLINED and BOLD results indicate concentrations exceeding WDNR NR140 ES

***ITALICIZED* and BOLD** results indicate concentrations exceeding WDNR NR140 PAL

TABLE 2
GROUNDWATER QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D	MW-1							MW-2							NR140	NR140
Collection Date	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	1/19/00	2/18/02	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	1/19/00	2/18/02	ES	PAL
Benzene	<0.6	<0.16	<0.27	<0.26	<0.26	<0.26	<0.45	<0.6	<0.16	<0.27	<0.26	<0.26	<0.26	<0.45	**5.0**	***0.5***
Ethylbenzene	<1.0	<0.29	<0.32	<0.24	<0.24	<0.24	<0.82	<1.0	<0.29	<0.32	<0.24	<0.24	<0.24	<0.82	**700.0**	***140.0***
Methyl-tert-butyl-ether	<1.0	<0.20	<0.32	<0.22	<0.22	<0.22	<0.43	<1.0	<0.20	<0.32	<0.22	<0.22	<0.22	<0.43	**60.0**	***12.0***
Naphthalene	<1.0	<0.81	<0.35	<0.89	<0.89	<0.89	<0.89	<1.0	<0.81	<0.35	<0.89	<0.89	<0.89	<0.89	**40.0**	***8.0***
Toluene	<1.0	<0.36	<0.27	<0.21	<0.21	<0.21	<0.68	<1.0	<0.36	<0.27	<0.21	<0.21	<0.21	<0.68	**343.0**	***68.6***
Trimethylbenzenes (1,2,4-1,3,5-)	<2.0	<0.64	<0.49	<1.40	<1.40	<1.40	<1.86	<2.0	<0.64	<0.49	<1.40	<1.40	<1.40	<1.86	**480.0**	***96.0***
Total Xylenes (m,p,o)	<2.0	<1.15	<0.67	<1.30	<1.34	<1.34	<2.47	<2.0	<1.15	<0.67	<1.30	<1.34	<1.34	<2.47	**620.0**	***124.0***

Notes:
mg/L = milligrams per liter = parts per million (ppm)
ug/L = micrograms per liter = parts per billion (ppb)
NA - Not Analyzed Q - parameter detected below quantitative limit (qualified results)
NSE - No Standard Established ND - No Detect
ES = NR140.10 Enforcement Standard
PAL = NR140.10 Preventative Action Limit

OUTLINED and BOLD results indicate concentrations exceeding WDNR NR140 ES

***ITALICIZED* and BOLD** results indicate concentrations exceeding WDNR NR140 PAL

TABLE 2
GROUNDWATER QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D	MW-3							MW-4											NR140	NR140
Collection Date	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	1/19/00	2/18/02	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	6/10/99	9/17/99	1/19/00	5/7/00	2/5/01	2/18/02	9/16/02	ES	PAL
Benzene	<0.6	<0.16	<0.27	<0.26	<0.26	<0.26	<0.45	**20.0**	**16.0**	**82.0**	**27.0**	***1.8***	**45.0**	<0.54	**5.4**	**20.0**	<1.7	**6.0**	<0.45	**5.0**	***0.5***
Ethylbenzene	<1.0	<0.29	<0.32	<0.24	<0.24	<0.24	<0.82	***140.0***	56.0	***610.0***	***310.0***	63.0	***310.0***	12.0	51.0	***190.0***	16.0	***220.0***	43.0	**700.0**	***140.0***
Methyl-tert-butyl-ether	<1.0	<0.20	<0.32	<0.22	<0.22	<0.22	<0.43	**200.0**	**290.0**	**410.0**	**430.0**	**460.0**	**420.0**	**310.0**	**420.0**	**430.0**	**360.0**	**310.0**	**230.0**	**60.0**	***12.0***
Naphthalene	<1.0	<0.81	<0.35	<0.89	<0.89	<0.89	<0.89	**23.0**	6.0	**81.0**	**56.0**	**10.0**	**58.0**	3.0	***15.0***	***38.0***	5.2	**58.0**	***18.0***	**40.0**	***8.0***
Toluene	<1.0	<0.36	<0.27	<0.21	<0.21	<0.21	<0.68	7.5	2.7	8.5	5.4	<0.84	6.6	<0.54	<0.84	<0.68	<1.9	<1.4	<0.68	**343.0**	***68.6***
Trimethylbenzenes (1,2,4-1,3,5-)	<2.0	<0.64	<0.49	<1.40	<1.40	<1.40	<1.86	22.0	11.0	***134.7***	76.0	7.7	***151.0***	0.56Q	19.0	56.6	3.0 Q	***212.0***	46.4 Q	**480.0**	***96.0***
Total Xylenes (m,p,o)	<2.0	<1.15	<0.67	<1.30	<1.34	<1.34	<2.47	38.1	32.0	***345.0***	103.0	8.6	***305.0***	<1.34	26.0	103.2	<5.7	***225.0***	20 Q	**620.0**	***124.0***

Notes:
mg/L = milligrams per liter = parts per million (ppm)
ug/L = micrograms per liter = parts per billion (ppb)
NA - Not Analyzed Q - parameter detected below quantitative limit (qualified results)
NSE - No Standard Established ND - No Detect
ES = NR140.10 Enforcement Standard
PAL = NR140.10 Preventative Action Limit

OUTLINED and BOLD results indicate concentrations exceeding WDNR NR140 ES

***ITALICIZED* and BOLD** results indicate concentrations exceeding WDNR NR140 PAL

TABLE 2
GROUNDWATER QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D	MW-5							MW-6							NR140	NR140
Collection Date	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	1/19/00	2/18/02	8/7/97	1/20/98	6/24/98	9/16/98	1/14/99	1/19/00	2/18/02	ES	PAL
Benzene	<0.6	<0.16	<0.27	<0.26	<0.26	<0.26	<0.45	<0.6	<0.16	<0.27	<0.26	<0.26	<0.26	<0.45	5.0	*0.5*
Ethylbenzene	<1.0	<0.29	<0.32	<0.24	<0.24	<0.24	<0.82	<1.0	<0.29	<0.32	<0.24	<0.24	<0.24	<0.82	700.0	*140.0*
Methyl-tert-butyl-ether	<1.0	<0.20	<0.32	<0.22	<0.22	<0.22	<0.43	<1.0	<0.20	<0.32	<0.22	<0.22	<0.22	<0.43	60.0	*12.0*
Naphthalene	<1.0	<0.81	<0.35	<0.89	<0.89	<0.89	<0.89	<1.0	<0.81	<0.35	<0.89	<0.89	<0.89	<0.89	40.0	*8.0*
Toluene	<1.0	<0.36	<0.27	<0.21	<0.21	<0.21	<0.68	<1.0	<0.36	<0.27	<0.21	<0.21	<0.21	<0.68	343.0	*68.6*
Trimethylbenzenes (1,2,4-1,3,5-)	<2.0	<0.64	<0.49	<1.40	<1.40	<1.40	<1.86	<1.0	<0.64	<0.49	<1.40	<1.40	<1.40	<1.86	480.0	*96.0*
Total Xylenes (m,p,o)	<2.0	<1.15	<0.67	<1.30	<1.30	<1.34	<2.47	<1.0	<1.15	<0.67	<1.30	<1.34	<1.34	<2.47	620.0	*124.0*

Notes:

mg/L = milligrams per liter = parts per million (ppm)

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

NA - Not Analyzed Q - parameter detected below quantitative limit (qualified results)

NSE - No Standard Established ND - No Detect

ES = NR140.10 Enforcement Standard

PAL = NR140.10 Preventative Action Limit

OUTLINED and BOLD results indicate concentrations exceeding WDNR NR140 ES

***ITALICIZED* and BOLD** results indicate concentrations exceeding WDNR NR140 PAL

TABLE 2
GROUNDWATER QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D	MW-7							MW-8							MW-9					NR140	NR140
Collection Date	6/10/99	9/17/99	1/19/00	5/7/00	2/5/01	2/18/02	9/16/02	6/10/99	9/17/99	1/19/00	5/7/00	2/5/01	2/18/02	9/16/02	6/10/99	9/17/99	1/19/00	5/7/00	2/5/01	ES	PAL
Benzene	*0.9*	*3.1*	*2.0Q*	*3.2Q*	*3.4*	*3.4*	*2.8*	3,200	13,000	7,800	10,000	6,100	7,500	6,000	9.9	310	400	1,700	720	5.0	*0.5*
Ethylbenzene	22.0	***190.0***	***250.0***	***660.0***	***220.0***	***310.0***	***230.0***	*310*	3,500	2,000	4,400	2,000	2,800	3,000	5.1	*530*	*280*	810	*320*	700.0	*140.0*
Methyl-tert-butyl-ether	110.0	*43.0*	*28.0*	5.4	110.0	100.0	79.0	3,600	2,800	2,500	1,000	1,200	530	220	150	99	83	75	65	60.0	*12.0*
Naphthalene	2.7	43.0	*34.0*	130.0	*15.0*	*26.0*	*21.0*	94	680	520	1,000	490	620	900	1.0Q	89	49	110	33	40.0	*8.0*
Toluene	0.9	0.98Q	0.75Q	2.1Q	<0.76	<1.4	1.8 Q	4,600	14,000	7,000	20,000	4,400	6,600	3,500	19	18	10	51	8	343.0	*68.6*
Trimethylbenzenes (1,2,4-1,3,5-)	17.9	14.4	52.8	***212.0***	35.0	54.7	12.2 Q	*419*	2,540	1,350	3,580	1,810	2,960	3,280	4.7	*119*	78	*231*	85.6	480.0	*96.0*
Total Xylenes (m,p,o)	69.0	12.0	54.0	***403.0***	22.6	55.9	11.0	3,500	15,700	8,300	22,600	9,600	14,100	14,200	43	97	*176*	810	*190*	620.0	*124.0*

Notes:

mg/L = milligrams per liter = parts per million (ppm)

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

NA - Not Analyzed Q - parameter detected below quantitative limit (qualified results)

NSE - No Standard Established

ES = NR140.10 Enforcement Standard

PAL = NR140.10 Preventative Action Limit

OUTLINED and BOLD results indicate concentrations exceeding WDNR NR140 ES

***ITALICIZED* and BOLD** results indicate concentrations exceeding WDNR NR140 PAL

TABLE 4
NATURAL ATTENUATION RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Well I.D.	MW-1					MW-4					MW-5					GW-2 [MW-9]				
Sample Date	7/11/96	8/7/97	1/20/98	1/14/99	6/28/00	7/11/96	8/7/97	1/20/98	1/14/99	5/7/00	7/11/96	8/7/97	1/20/98	2/16/99	6/28/00	7/11/96	8/7/97	1/20/98	2/16/99	5/7/00
FERROUS IRON, mg/ Range 0-5 00 mg/L	NA	NA	0.16	0	0.05	NA	NA	0.81	4	3.04	NA	NA	0.06	0.03	0.02	NA	NA	33.27*	0.73	1.23
SULFIDE, mg/L Range 0- 600 mg/L	NA	NA	0.091	0.024	0.011	NA	NA	0.021	0.026	0.186	NA	NA	0.065	0.043	0.011	NA	NA	0.81	0.051	0.104
SULFATE mg/L Range 0-1000 mg/L	NA	NA	309.2	368.9	282.2	NA	NA	183.9	29.2	225	NA	NA	356.3	328.3	392	NA	NA	70.5	36	45.7
NITRITE, mg/L Range 0-0 350 mg/L	NA	NA	0.01	0.004	0	NA	NA	0.007	0	0.05	NA	NA	0	0.017	0.001	NA	NA	0.941	0.004	0.100
NITRATE, mg/L Range 0-30.0 mg/L	NA	NA	1	0.5	0.8	NA	NA	0.946	0	0.4	NA	NA	0.5	0.2	2.1	NA	NA	0.915	0	1.8
TEMPERATURE (°C)	11.89	14.4	7.44	6.7	16.2	13.89	14.7	8.97	5.3	13.6	11.17	14.6	5.26	8.8	15.2	NA	NA	8.34	5.1	12.3
DISSOLVED OXYGEN (ppm)	4.3	13.7	4.9	7.86	12.68	0.6	1.08	1.07	0.99	16.08	1.6	10.83	5.29	11.23	12.6	NA	1.83	4.8	12.12	15.75
pH Range (1-14)	7.01	6.79	6.87	7.43	8.32	6.57	6.73	6.87	4.38	7.74	7.01	6.75	7.12	8.72	8	NA	NA	6.96	6.5	7.37
CONDUCTIVITY (us/ms)	691	674	700	940	0.727	1242	782	451	1920	1.25	1150	168	28	370	3.1	NA	NA	71	290	1.36
SALINITY (ppt)	NA	NA	0.4	0.04	NA	NA	NA	0.2	0.08	0.05	NA	NA	0	0.18	NA	NA	NA	0	0.13	0.06
TOTAL DISSOLVED SOLIDS	NA	2	0.45	2.21	NA	NA	1.2	0.766	7.37	NA	NA	1.8	0.018	6.24	NA	NA	2	0.024	6.33	NA
ORP-REDOX (mV)	NA	NA	310	NA	NA	NA	NA	247	NA	NA	NA	NA	337	NA	NA	NA	NA	183	NA	NA

Notes:
a. All parameters collected infield on date indicated
b. Field test result above detection limit of Hach kit
NA - Not Analysed, ppm = parts per million = mg/l = mg/kg mV = millivolt

TABLE 1
SOIL QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D.	SB1/MW1	SB1/MW1	SB2	SB2	SB3	SB3	SB4	SB4	SB5	SB5	SB6	SB6	Generic
Depth (ft.)	(10 - 12)	(20 - 22)	(10 - 12)	(17.5 - 19.5)	(7.5 - 9.5)	(20 - 22)	(2.5 - 4.5)	(20 - 22)	2.5 - 4.5)	(15 - 17)	(5 - 7)	(15 - 17)	RCL's
Collection Date	6/17/91	6/17/91	6/17/91	6/17/91	6/18/91	6/18/91	6/18/91	6/18/91	6/18/91	6/18/91	6/18/91	6/18/91	[NR 720]
GRO (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**160**	<5.0	**100 (a)**
DRO (mg/kg)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**100 (a)**
Lead, Total (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**50 (b)**
Detected VOC's (ug/kg)													
Benzene	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA	NA	NA	**41**	NA	**5.5**
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.9**
Ethylbenzene	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA	NA	NA	1,100	NA	**2,900**
Methyl-tert-butyl-ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NSE**
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NSE**
Toluene	<5.0	NA	5.0	NA	5.0	NA	5.0	NA	NA	NA	**2,200**	NA	**1,500**
1,2,4-Trimethylbenzen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NSE**
1,3,5-Trimethylbenzen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NSE**
Total Xylenes (m,p,o)	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA	NA	NA	**9,100**	NA	**4,100**

Notes:

mg/kg = milligrams per kilogram = parts per million (ppm)

ug/kg = micrograms per kilogram = parts per billion (ppb)

NA - Not Analyzed ; Q - parameter detected below quantitative limit (qualified results)

NSE - No Standard Established ; RCL - Residual Contaminant Level

(a) - NR 720 soil cleanup RCL for high permeable soils (sand)

(b) - NR 720 soil cleanup RCL for non-industrial sites

Highlighted and **Bold** results indicate concentrations exceeding WDNR soil cleanup guidelines, per NR 720

TABLE 1
SOIL QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D.	SB7/MW2	SB7/MW2	SB8/MW3	SB8/MW3	SB9/GW1	SB10/GW2	SB11	SB12	SB12	SB13	SB14	SB15	Generic
Depth (ft.)	(10 - 12)	(15 - 17)	(7.5 - 9.5)	(15 - 17)	(5 - 7)	(4 - 6)	(10 - 12)	(6 - 8)	10 - 12)	(8 - 10)	(4 - 6)	(6 - 8)	RCL's
Collection Date	6/19/91	6/19/91	6/19/91	6/19/91	6/19/91	6/19/91	7/13/92	7/13/92	7/13/92	7/13/92	7/13/92	7/13/92	[NR 720]
GRO (mg/kg)	<5.0	<5.0	<5.0	<5.0	**400**	**2,000**	<5.0	30.0	<5.0	<5.0	<5.0	10.0	**100 (a)**
DRO (mg/kg)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	NA	NA	NA	NA	**100 (a)**
Lead, Total (mg/kg)	NA	NA	NA	NA	NA	NA	0.77	<0.75	<0.75	1.00	1.20	<0.75	**50 (b)**
Detected VOC's (ug/kg)													
Benzene	NA	NA	NA	NA	**580**	**10,000**	<50	**1,700**	<57	<60	<60	**420**	**5.5**
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.9**
Ethylbenzene	NA	NA	NA	NA	**4,200**	**27,000**	<50	1,500	<57	<60	<60	<62	**2,900**
Methyl-tert-butyl-ether	NA	NA	NA	NA	NA	NA	<50	<65	<57	<60	<60	<62	**NSE**
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NSE**
Toluene	NA	NA	NA	NA	**12,000**	**99,000**	<50	<65	<57	<60	<60	<62	**1,500**
1,2,4-Trimethylbenzen	NA	NA	NA	NA	NA	NA	<50	3,100	<57	<60	<60	<62	**NSE**
1,3,5-Trimethylbenzen	NA	NA	NA	NA	NA	NA	<50	880	<57	<60	<60	<62	**NSE**
Total Xylenes (m,p,o)	NA	NA	NA	NA	**24,000**	**140,000**	<50	**4,100**	<57	<60	<60	<62	**4,100**

Notes:

mg/kg = milligrams per kilogram = parts per million (ppm)

ug/kg = micrograms per kilogram = parts per billion (ppb)

NA - Not Analyzed ; Q - parameter detected below quantitative limit (qualified results)

NSE - No Standard Established ; RCL - Residual Contaminant Level

(a) - NR 720 soil cleanup RCL for high permeable soils (sand)

(b) - NR 720 soil cleanup RCL for non-industrial sites

Highlighted and **Bold** results indicate concentrations exceeding WDNR soil cleanup guidelines, per NR 720

TABLE 1
SOIL QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D.	MW5	MW5	MW6	MW6	B16	B16	B17	B17	B18	B18	B19	B19	B20	Generic
Depth (ft.)	(6 - 8)	(20 - 22)	(6 - 8)	(12 - 14)	(6 - 8)	(12 - 14)	(8 - 10)	(10 - 12)	(8 - 10	(12 - 14)	(6 - 8)	(12 - 14)	(6 - 8)	RCL's
Collection Date	9/19/95	9/19/95	9/19/95	9/19/95	9/6/94	9/6/94	9/6/94	9/6/94	9/6/94	9/6/94	9/6/94	9/6/94	9/6/94	[NR 720]
GRO (mg/kg)	<2.9	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.9	<2.9	<2.8	**100 (a)**
DRO (mg/kg)	<4.1	<4.1	<4.1	<4.1	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<4.0	<4.0	<3.9	**100 (a)**
Lead, Total (mg/kg)	4.80	4.00	4.60	4.60	3.10	3.00	3.50	3.50	3.80	3.20	4.00	4.80	2.90	**50 (b)**
Detected VOC's (ug/kg)												Detected VOC's (ug/kg)		
Benzene	<0.6	<0.6	<0.6	<0.6	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**5.5**
1,2-Dichloroethane	<0.6	<0.6	<0.6	<0.6	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**4.9**
Ethylbenzene	<0.6	<0.6	<0.6	<0.6	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**2,900**
Methyl-tert-butyl-ether	<0.5	<0.5	<0.5	<0.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**NSE**
Naphthalene	<1.2	<1.1	<1.1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NSE**
Toluene	<0.5	<0.5	<0.5	<0.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**1,500**
1,2,4-Trimethylbenzen	<0.8	<0.8	<0.8	<0.8	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**NSE**
1,3,5-Trimethylbenzen	<0.8	<0.8	<0.8	<0.8	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**NSE**
Total Xylenes (m,p,o)	<1.6	<1.6	<1.6	<1.6	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	**4,100**

Notes:

mg/kg = milligrams per kilogram = parts per million (ppm)

ug/kg = micrograms per kilogram = parts per billion (ppb)

NA - Not Analyzed ; Q - parameter detected below quantitative limit (qualified results)

NSE - No Standard Established ; RCL - Residual Contaminant Level

(a) - NR 720 soil cleanup RCL for high permeable soils (sand)

(b) - NR 720 soil cleanup RCL for non-industrial sites

Highlighted and **Bold** results indicate concentrations exceeding WDNR soil cleanup guidelines, per NR 720

TABLE 1
SOIL QUALITY RESULTS
KIEL MOBIL SITE, KIEL, WISCONSIN

Sample I.D.	B20	B21	B21	B22	B22	B23	B24	B24	B25	B25	B26	B26	Generic
Depth (ft.)	(12 - 14)	(6 - 8)	(12 - 14)	(6 - 8)	(8 - 10)	(4 - 6)	(3 - 5)	(5 - 7)	(3 - 5)	(7 - 9)	(3 - 5)	(7 - 9)	RCL's
Collection Date	9/6/94	9/6/94	9/6/94	9/6/94	9/6/94	9/6/94	5/28/99	5/28/99	5/28/99	5/28/99	5/28/99	5/28/99	[NR 720]
GRO (mg/kg)	<3.0	<2.9	<2.9	29.0	<2.9	<2.9	69.0	16.0	**700**	<2.8	**360**	<2.9	**100 (a)**
DRO (mg/kg)	<4.0	<4.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**100 (a)**
Lead, Total (mg/kg)	5.10	4.90	2.70	3.70	NA	4.60	NA	NA	NA	NA	NA	NA	**50 (b)**
Detected VOC's (ug/kg)													
Benzene	<1.2	<1.1	<1.1	<150	NA	**160.0**	<25	<25	**8,500**	<25	**920**	<25	**5.5**
1,2-Dichloroethane	<1.2	<1.1	<1.1	<150	NA	<1.1	NA	NA	NA	NA	NA	NA	**4.9**
Ethylbenzene	<1.2	<1.1	<1.1	330	NA	<1.1	1,800	1,600	**22,000**	<25	**11,000**	<25	**2,900**
Methyl-tert-butyl-ether	<1.2	<1.1	<1.1	<150	NA	<1.1	59Q	<25	1,100	510	270Q	37Q	**NSE**
Naphthalene	NA	NA	NA	NA	NA	NA	1,600	NA	10,000	<25	6,700	<25	**NSE**
Toluene	<1.2	<1.1	<1.1	<150	NA	<1.1	72	34Q	**53,000**	<25	**22,000**	46Q	**1,500**
1,2,4-Trimethylbenzen	<1.2	<1.1	<1.1	890	NA	<1.1	5,000	1,500	43,000	<25	24,000	<25	**NSE**
1,3,5-Trimethylbenzen	<1.2	<1.1	<1.1	430	NA	<1.1	1,600	850	13,000	<25	7,400	<25	**NSE**
Total Xylenes (m,p,o)	<1.2	<1.1	<1.1	440	NA	<1.1	**5,130**	1,130	**108,000**	<50	**59,000**	46	**4,100**

Notes:

mg/kg = milligrams per kilogram = parts per million (ppm)

ug/kg = micrograms per kilogram = parts per billion (ppb)

NA - Not Analyzed ; Q - parameter detected below quantitative limit (qualified results)

NSE - No Standard Established ; RCL - Residual Contaminant Level

(a) - NR 720 soil cleanup RCL for high permeable soils (sand)

(b) - NR 720 soil cleanup RCL for non-industrial sites

Highlighted and **Bold** results indicate concentrations exceeding WDNR soil cleanup guidelines, per NR 720

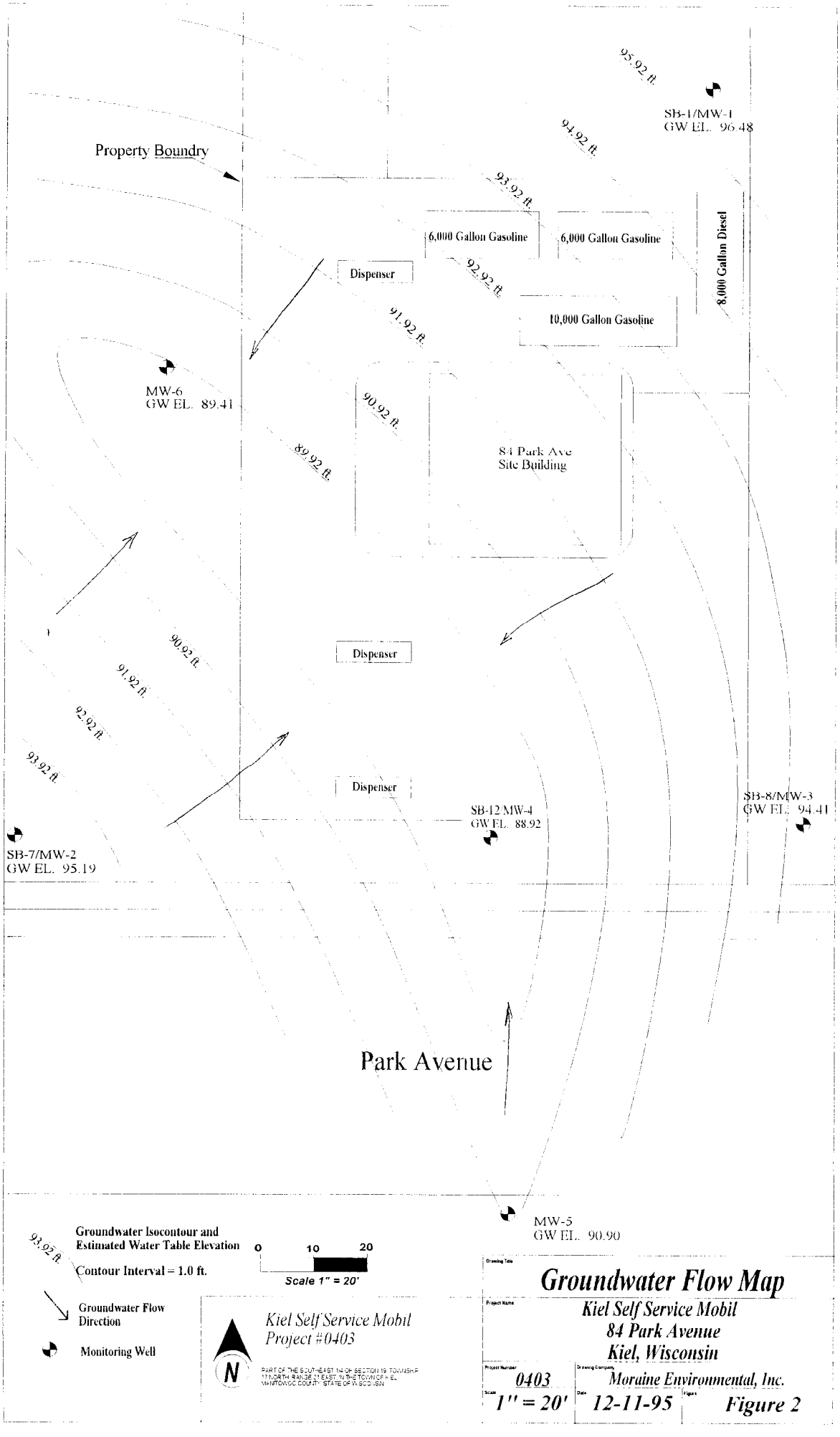
TABLE 3
GROUNDWATER ELEVATIONS
KIEL MOBIL SITE, KIEL, WISCONSIN

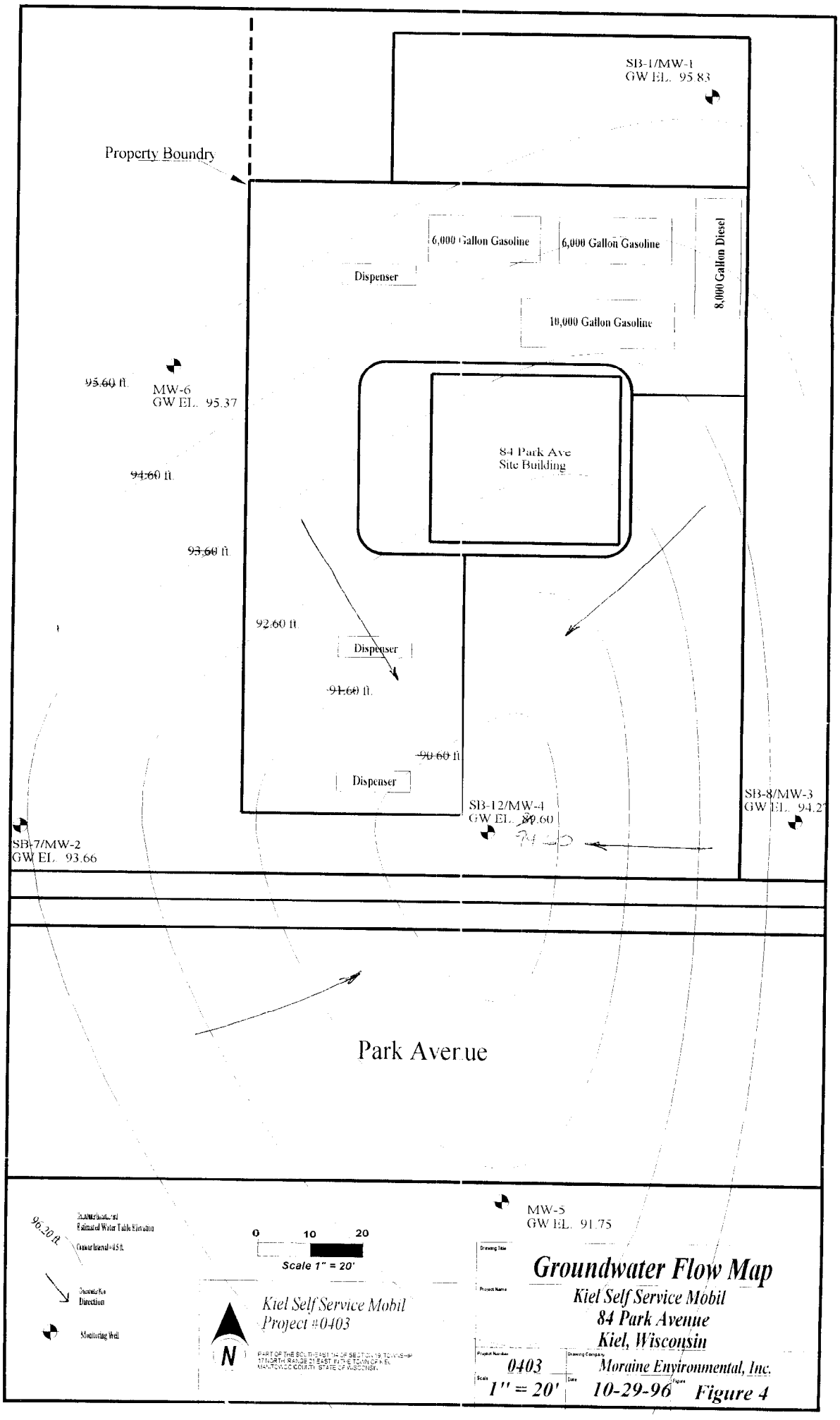
Monitoring Well	Top of Casing Elevation*	Measurement Date	Depth to Water from Top of Casing*	Static Water Level Elevation*
MW-1	911.04	10/5/94	10.42	900.62
		11/10/95	6.72	904.32
		12/18/95	7.25	903.79
		7/11/96	7.03	904.01
		10/29/96	7.90	903.14
		8/7/97	8.03	903.01
		1/20/98	7.52	903.52
		6/24/98	7.76	903.28
		9/16/98	7.58	903.46
		1/14/99	8.52	902.52
		1/19/00	8.18	902.86
		2/18/02	6.50	904.54
		9/16/02	8.08	902.96
MW-2	909.97	10/5/94	9.23	900.74
		11/10/95	8.14	901.83
		12/18/95	7.40	902.57
		7/11/96	8.16	901.81
		10/29/96	8.93	901.04
		8/7/97	8.75	901.22
		1/20/98	8.92	901.05
		6/24/98	8.61	901.36
		9/16/98	8.88	901.09
		1/14/99	10.61	899.36
		1/19/00	9.14	900.83
		2/18/02	6.23	903.74
		9/16/02	8.76	901.21
MW-3	909.41	10/5/94	8.34	901.07
		11/10/95	7.30	902.11
		12/18/95	7.71	901.70
		7/11/96	7.53	901.88
		10/29/96	7.85	901.56
		8/7/97	7.79	901.62
		1/20/98	7.45	901.96
		6/24/98	7.39	902.02
		9/16/98	7.60	901.81
		1/14/99	9.06	900.35
		1/19/00	7.79	901.62
		2/18/02	6.76	902.65
		9/16/02	7.81	901.60
MW-4	906.49	10/5/94	4.64	901.85
		11/10/95	4.56	901.93
		12/18/95	5.35	901.14
		7/11/96	4.69	901.80
		10/29/96	4.67	901.82
		8/7/97	4.78	901.71
		1/20/98	5.35	901.14
		6/24/98	4.58	901.91
		9/16/98	4.63	901.86
		1/14/99	7.49	899.00
		1/19/00	5.29	901.20
		2/18/02	4.36	902.13
		9/16/02	4.79	901.70

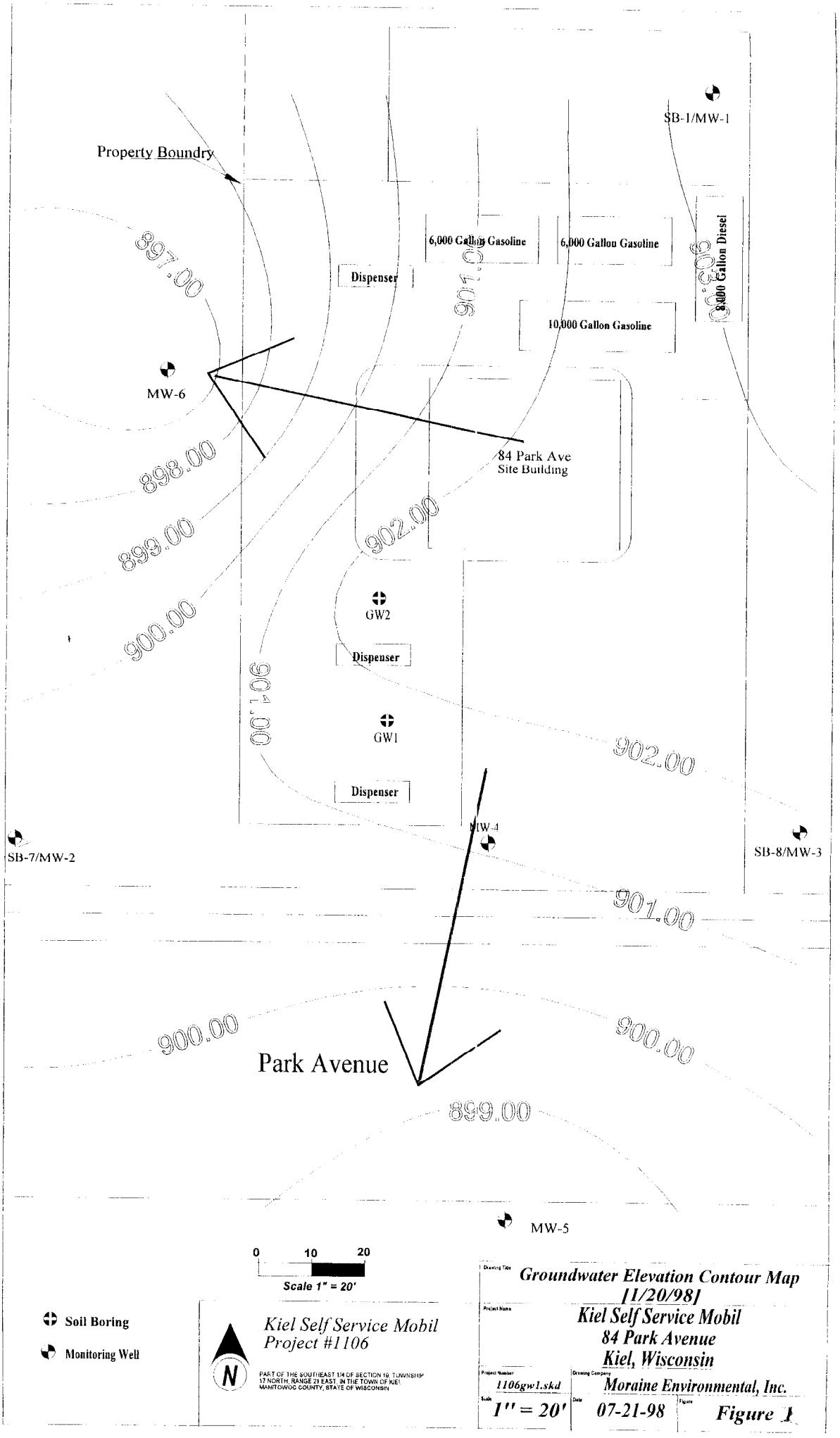
TABLE 3
GROUNDWATER ELEVATIONS
KIEL MOBIL SITE, KIEL, WISCONSIN

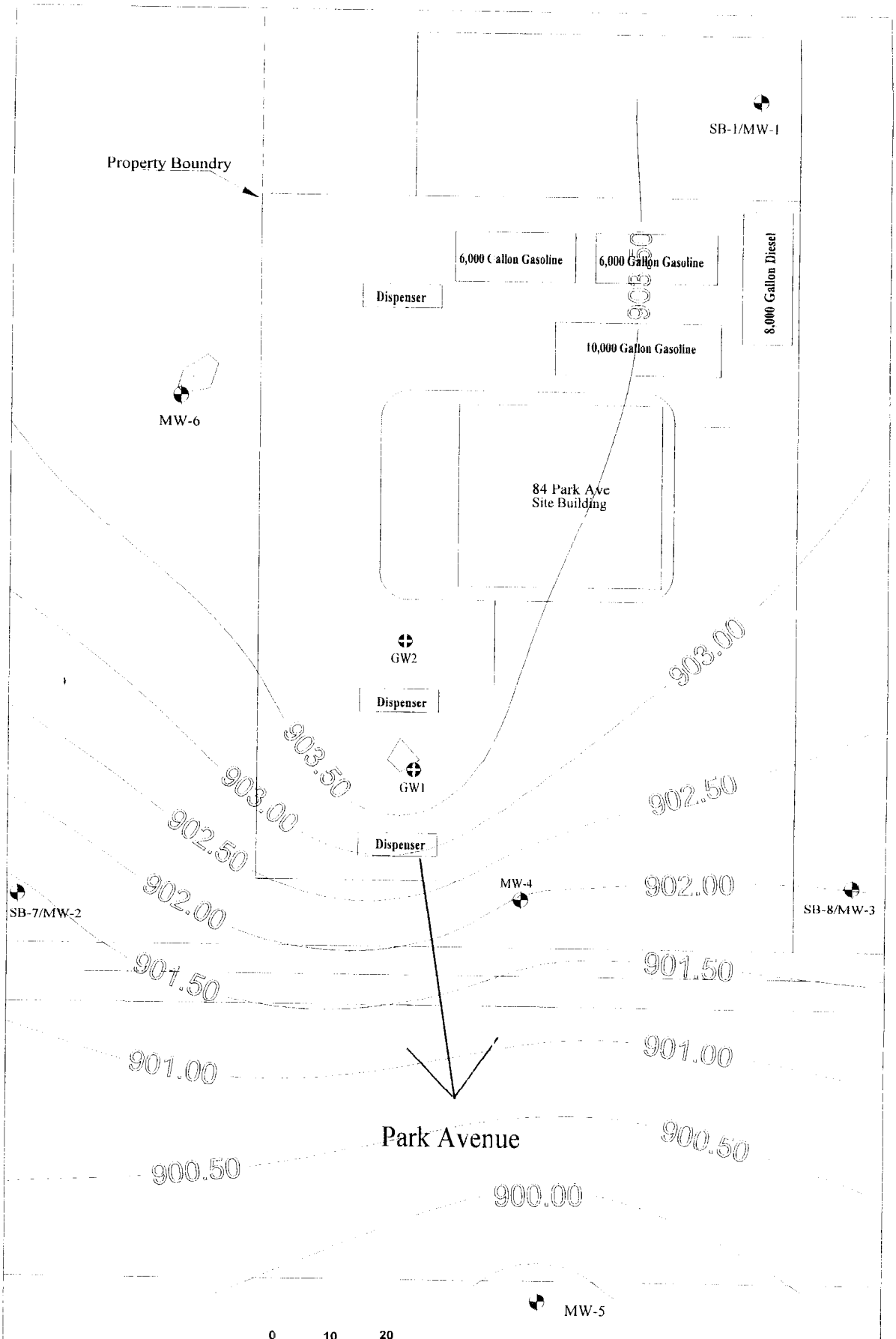
Monitoring Well	Top of Casing Elevation*	Measurement Date	Depth to Water from Top of Casing*	Static Water Level Elevation*
MW-5	907.27	11/10/95	7.96	899.31
		12/18/95	9.06	898.21
		7/11/96	7.91	899.36
		10/29/96	8.21	899.06
		8/7/97	7.99	899.28
		1/20/98	9.26	898.01
		6/24/98	8.02	899.25
		9/16/98	8.08	899.19
		1/19/00	9.79	897.48
		2/18/02	8.07	899.20
		9/16/02	8.00	899.27
MW-6	906.51	11/10/95	6.49	900.02
		12/18/95	9.91	896.60
		7/11/96	3.18	903.33
		10/29/96	3.95	902.56
		8/7/97	3.57	902.94
		1/20/98	10.60	895.91
		6/24/98	2.62	903.89
		9/16/98	3.91	902.60
		1/14/99	7.95	898.56
		1/19/00	3.51	903.00
		2/18/02	2.67	903.84
		9/16/02	Destroyed	
MW-7	906.54	6/10/99	10.42	896.12
		9/17/99	6.72	899.82
		1/19/00	7.25	899.29
		5/7/00	7.03	899.51
		2/5/01	7.90	898.64
		2/18/02	3.30	903.24
		9/16/02	3.46	903.08
MW-8	906.60	6/10/99	10.42	896.18
		9/17/99	6.72	899.88
		1/19/00	7.25	899.35
		5/7/00	7.03	899.57
		2/5/01	7.90	898.70
		2/18/02	3.25	903.35
		9/16/02	3.78	902.82
MW-9	906.61	6/10/99	10.42	896.19
		9/17/99	6.72	899.89
		1/19/00	7.25	899.36
		5/7/00	7.03	899.58
		2/5/01	Destroyed	
GW-1	906.78	10/5/94	3.68	903.10
		8/7/97	4.13	902.65
		1/20/98	5.27	901.51
		6/24/98	2.65	904.13
		9/16/98	3.28	903.50
		1/14/99	7.57	899.21
		1/19/00	Destroyed	
GW-2	906.68	10/5/94	3.54	903.14
		8/7/97	3.63	903.05
		1/20/98	3.70	902.98
		6/24/98	3.03	903.65
		9/16/98	2.72	903.96
		1/14/99	6.91	899.77
		1/19/00	Destroyed	

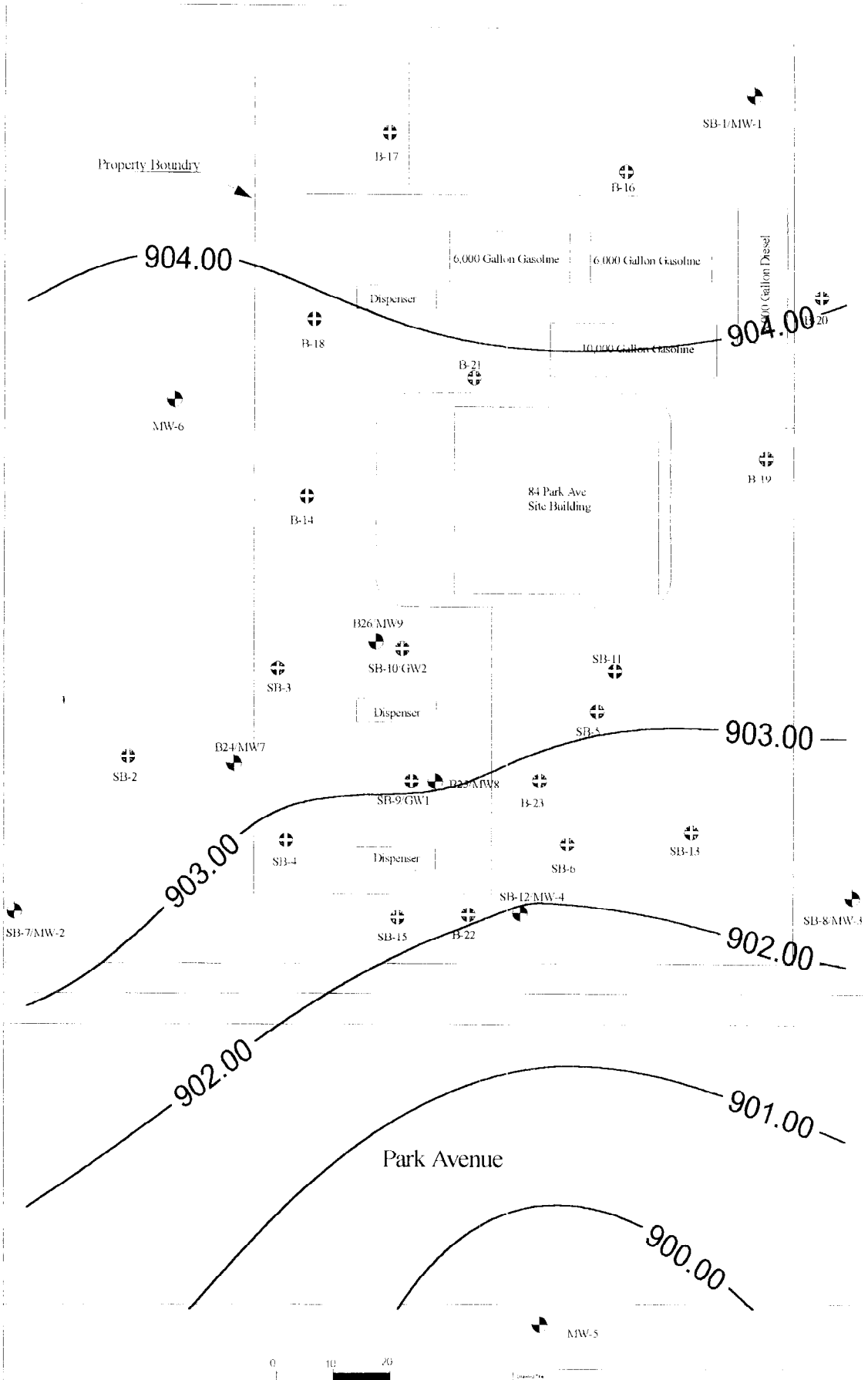
*All elevations referenced to local benchmark (arrow etched on hydrant located near corner of Food Mart - El.909.88).


95.92 ft.
SB-1/MW-1
GW EL. 96.48
Property Boundry
94.92 ft.
93.92 ft.
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
92.92 ft.
91.92 ft.
10,000 Gallon Gasoline
MW-6
GW EL. 89.41
90.92 ft.
89.92 ft.
84 Park Ave
Site Building
Dispenser
90.92 ft.
91.92 ft.
92.92 ft.
93.92 ft.
Dispenser
SB-12/MW-4
GW EL. 88.92
SB-8/MW-3
GW EL. 94.41
SB-7/MW-2
GW EL. 95.19
Park Avenue
MW-5
GW EL. 90.90
93.92 ft.
Groundwater Isocontour and
Estimated Water Table Elevation
Contour Interval = 1.0 ft.
Groundwater Flow
Direction
Monitoring Well
0
10
20
Scale 1" = 20'
N
Kiel Self Service Mobil
Project #0403
PART OF THE SOUTHEAST 1/4 OF SECTION 19 TOWNSHIP
17 NORTH, RANGE 21 EAST, IN THE TOWN OF KIEL
MANITOWOC COUNTY, STATE OF WISCONSIN
Drawing Title
Groundwater Flow Map
Project Name
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
Project Number
0403
Drawing Company
Moraine Environmental, Inc.
Scale
1" = 20'
Date
12-11-95
Figure
Figure 2


SB-1/MW-1
GW EL. 95.83
Property Boundry
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
10,000 Gallon Gasoline
95.60 ft.
MW-6
GW EL. 95.37
84 Park Ave
Site Building
94.60 ft.
93.60 ft.
92.60 ft.
Dispenser
91.60 ft.
90.60 ft
Dispenser
SB-12/MW-4
GW EL. 89.60
SB-8/MW-3
GW EL. 94.27
SB-7/MW-2
GW EL. 93.66
Park Avenue
MW-5
GW EL. 91.75
96.20 ft.
Estimated Water Table Elevation
Contour Interval = 0.5 ft.
Groundwater Flow Direction
Monitoring Well
0
10
20
Scale 1" = 20'
Kiel Self Service Mobil
Project #0403
N
PART OF THE SOUTHEAST 1/4 OF SECTION 19, TOWNSHIP 17 NORTH, RANGE 21 EAST, IN THE TOWN OF KIEL MANITOWOC COUNTY, STATE OF WISCONSIN
Groundwater Flow Map
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
0403
Moraine Environmental, Inc.
1" = 20'
10-29-96
Figure 4


SB-1/MW-1
Property Boundry
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
10,000 Gallon Gasoline
MW-6
84 Park Ave
Site Building
GW2
Dispenser
GW1
Dispenser
MW-4
SB-7/MW-2
SB-8/MW-3
Park Avenue
MW-5
897.00
898.00
899.00
900.00
901.00
902.00
903.00
0
10
20
Scale 1" = 20'
Soil Boring
Monitoring Well
Kiel Self Service Mobil
Project #1106
PART OF THE SOUTHEAST 1/4 OF SECTION 19, TOWNSHIP 17 NORTH, RANGE 21 EAST, IN THE TOWN OF KIEL MANITOWOC COUNTY, STATE OF WISCONSIN
Groundwater Elevation Contour Map
[1/20/98]
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
1106gw1.skd
Moraine Environmental, Inc.
1" = 20'
07-21-98
Figure 1


SB-1/MW-1
Property Boundry
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
10,000 Gallon Gasoline
MW-6
84 Park Ave
Site Building
GW2
Dispenser
GW1
Dispenser
MW-4
SB-7/MW-2
SB-8/MW-3
903.50
903.00
902.50
902.00
901.50
901.00
900.50
900.00
Park Avenue
MW-5
0
10
20
Scale 1" = 20'
Soil Boring
Monitoring Well
N
Kiel Self Service Mobil
Project #1106
PART OF THE SOUTHEAST 1/4 OF SECTION 19, TOWNSHIP 17 NORTH, RANGE 21 EAST, IN THE TOWN OF KIEL, MANITOWOC COUNTY, STATE OF WISCONSIN
Groundwater Elevation Contour Map
[6/24/98]
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
1106gw1.skd
1" = 20'
07-21-98
Moraine Environmental, Inc.
Figure 1

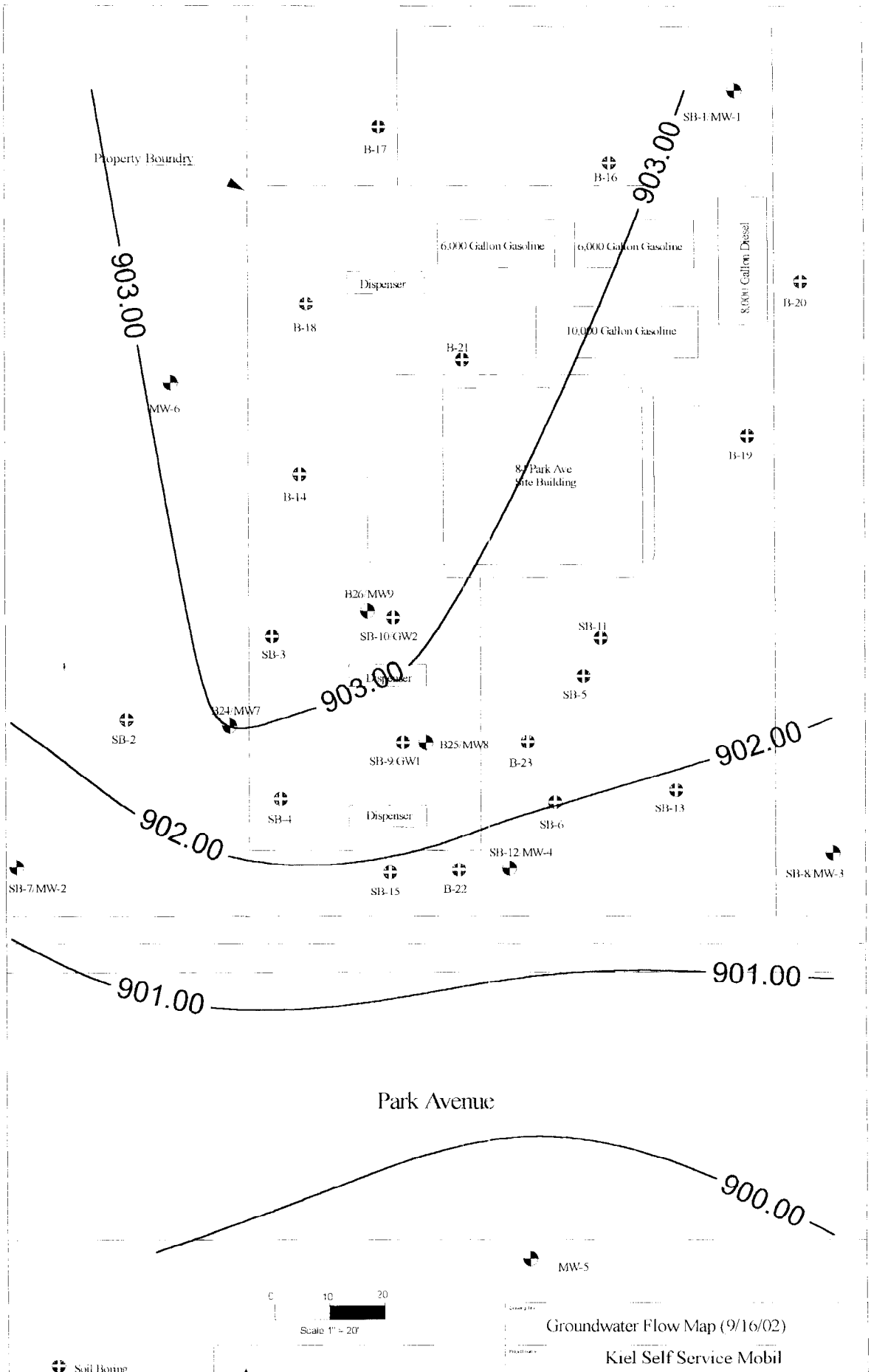


Groundwater Flow Map (2/18/02)

Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin

1106 | Moraine Environmental, Inc.

1" = 20' | 4/3/03 | Figure 2

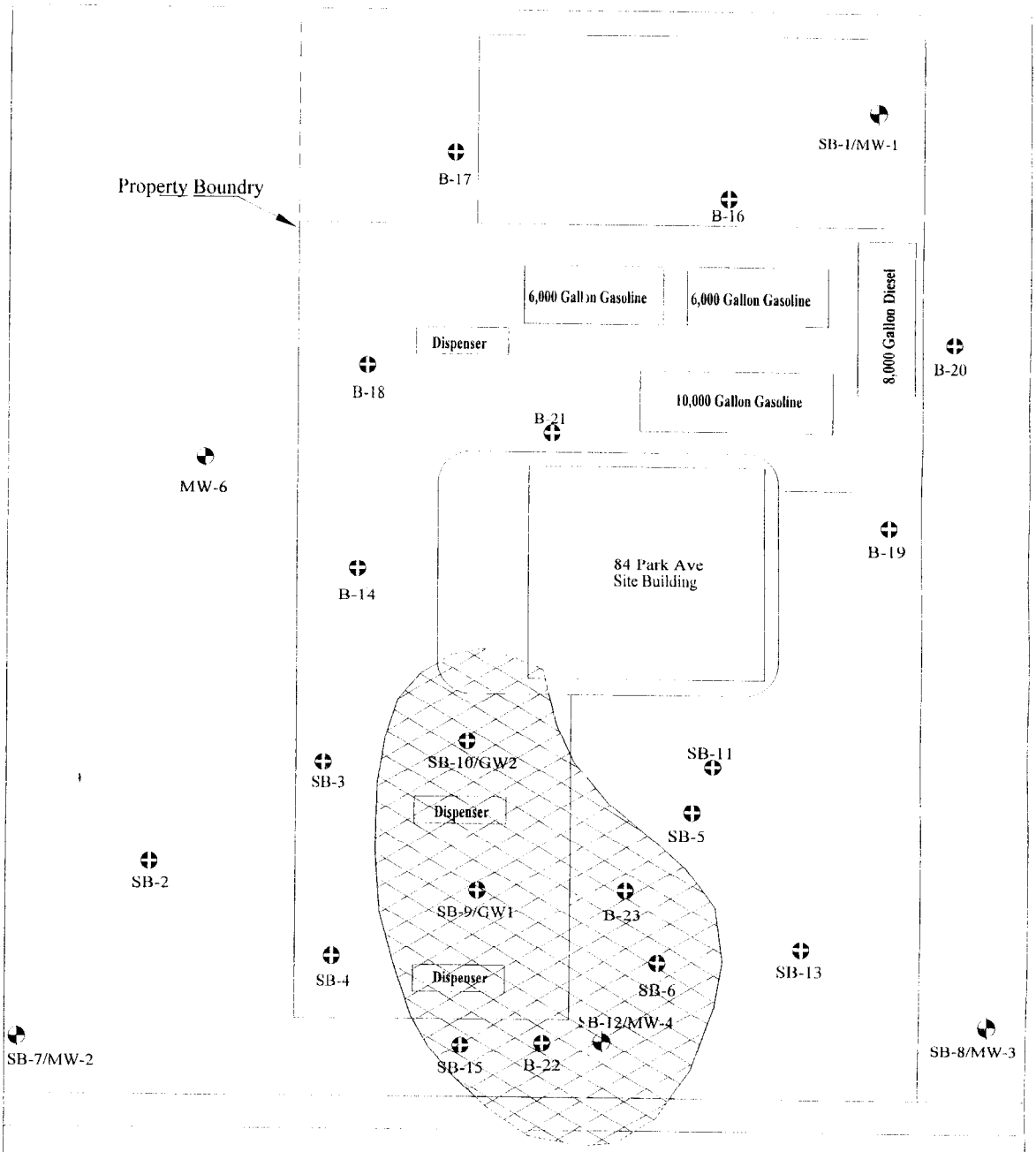


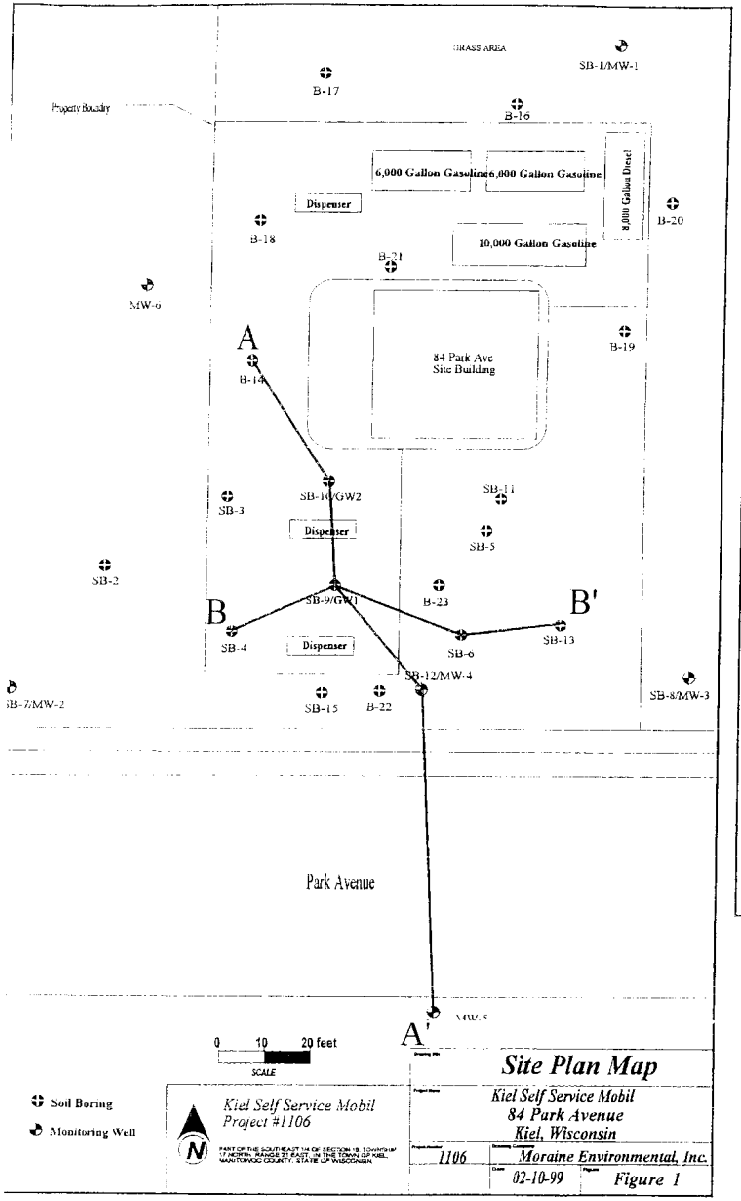
Groundwater Flow Map (9/16/02)

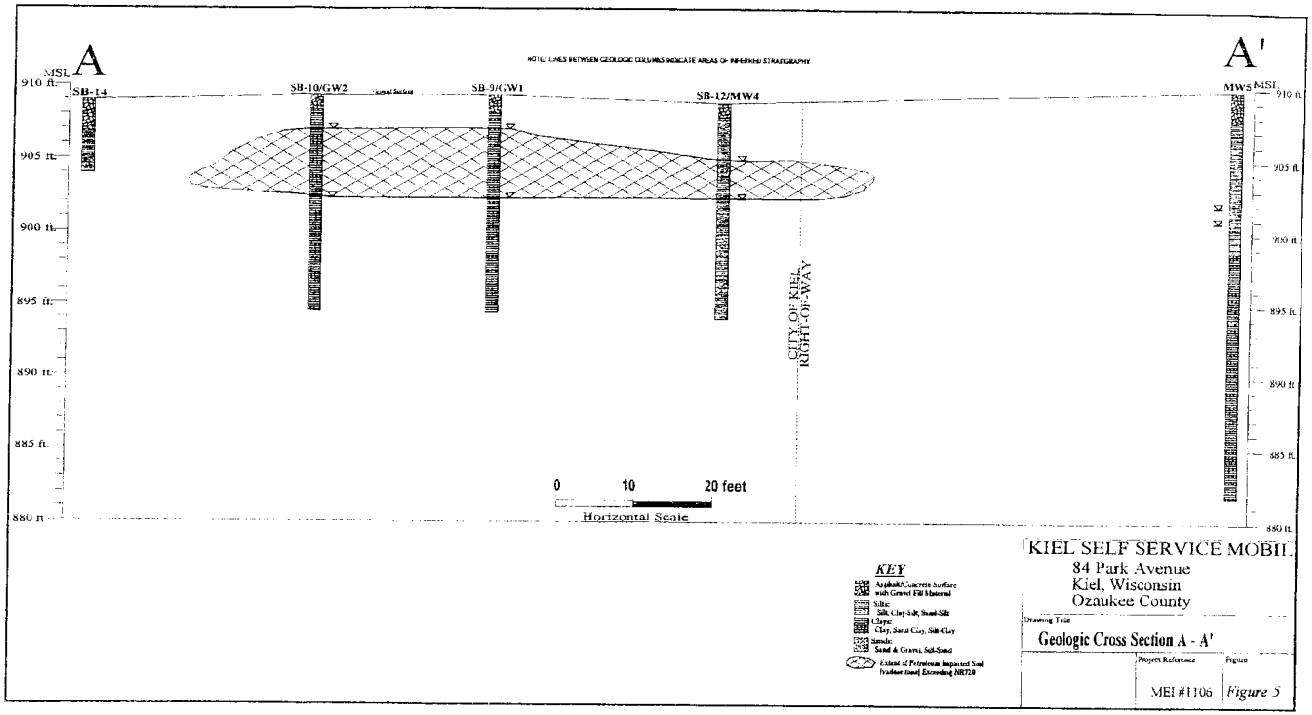
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin

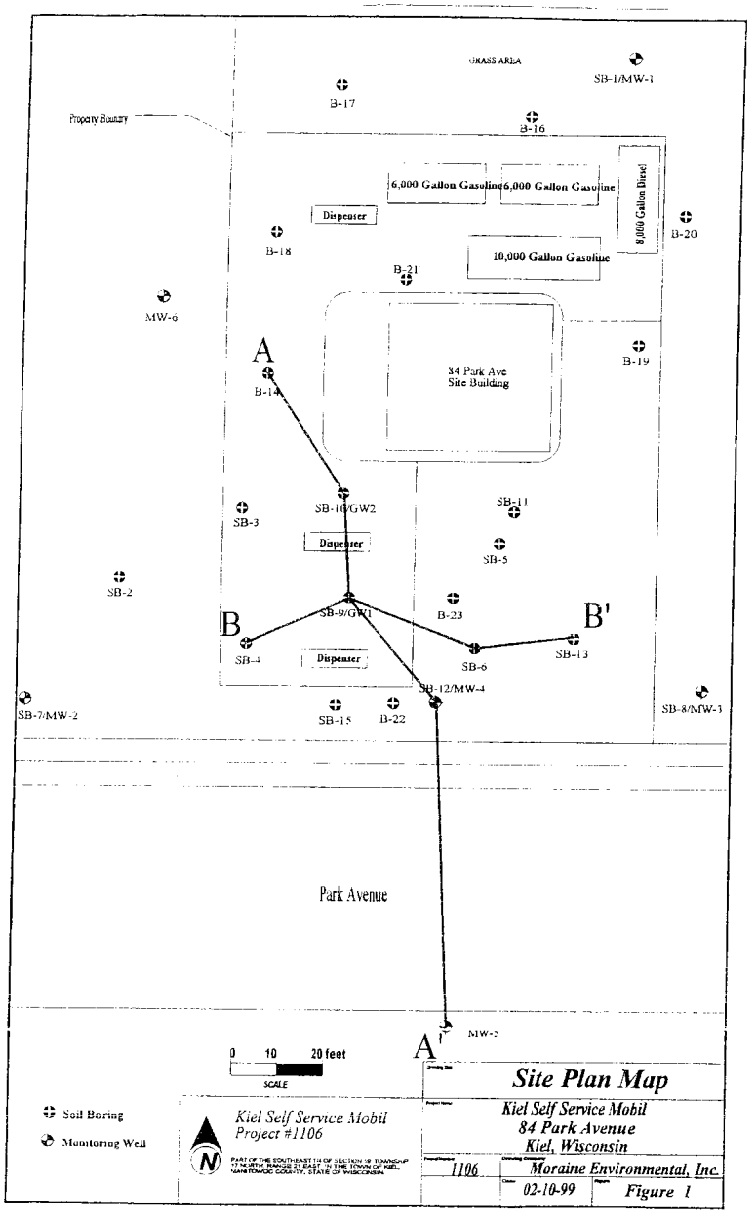
1106	Moraine Environmental, Inc
1" = 20'	4/3/03

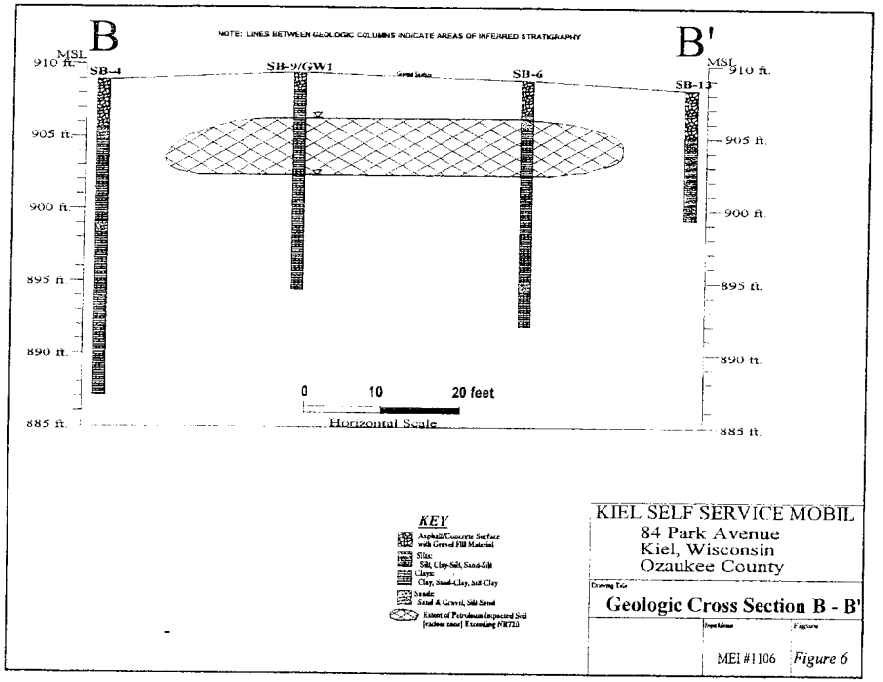
Figure 3


SB-1/MW-1
B-17
Property Boundry
B-16
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
B-20
B-18
10,000 Gallon Gasoline
B-21
MW-6
B-19
84 Park Ave
Site Building
B-14
SB-10/GW2
SB-11
SB-3
Dispenser
SB-5
SB-2
SB-9/GW1
B-23
SB-4
Dispenser
SB-6
SB-13
SB-12/MW-4
SB-7/MW-2
SB-15
B-22
SB-8/MW-3
Park Avenue
MW-5
0
10
20
Scale 1" = 20'
Soil Boring
Monitoring Well
N
Kiel Self Service Mobil
Project #0403
PART OF THE SOUTHEAST 1/4 OF SECTION 19, TOWNSHIP 17 NORTH, RANGE 21 EAST, IN THE TOWN OF KIEL, MANITOWOC COUNTY, STATE OF WISCONSIN
Extent of Impacted Soil Map
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
1106
Moraine Environmental, Inc.
1" = 20'
02-10-99
Figure 3


GRASS AREA
SB-1/MW-1
B-17
B-16
Property Boundary
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
B-20
B-18
B-21
10,000 Gallon Gasoline
MW-6
84 Park Ave
Site Building
B-19
A
B-14
SB-10/GW2
SB-3
SB-11
Dispenser
SB-5
SB-2
B
B'
SB-9/GW1
B-23
SB-4
Dispenser
SB-6
SB-13
SB-12/MW-4
SB-7/MW-2
SB-15
B-22
SB-8/MW-3
Park Avenue
A'
0 10 20 feet
SCALE
Soil Boring
Monitoring Well
Site Plan Map
Kiel Self Service Mobil
Project #1106
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
1106
Moraine Environmental, Inc.
02-10-99
Figure 1


A
A'
MSL
910 ft
905 ft
900 ft
895 ft
890 ft
885 ft
880 ft
SB-14
SB-10/GW2
SB-9/GW1
SB-12/MW4
MW5
CITY OF KIEL
RIGHT-OF-WAY
0 10 20 feet
Horizontal Scale
KEY
KIEL SELF SERVICE MOBIL
84 Park Avenue
Kiel, Wisconsin
Ozaukee County
Geologic Cross Section A - A'
MEI #1106
Figure 5


GRASS AREA
SB-1/MW-1
B-17
B-16
Property Boundary
6,000 Gallon Gasoline
6,000 Gallon Gasoline
8,000 Gallon Diesel
Dispenser
B-20
B-18
10,000 Gallon Gasoline
B-21
MW-6
A
84 Park Ave
Site Building
B-19
B-14
SB-10/GW2
SB-11
SB-3
Dispenser
SB-5
SB-2
B
SB-9/GW1
B-23
B'
SB-4
Dispenser
SB-6
SB-13
SB-12/MW-4
SB-7/MW-2
SB-15
B-22
SB-8/MW-3
Park Avenue
A'
MW-2
0 10 20 feet
SCALE
Soil Boring
Monitoring Well
Kiel Self Service Mobil
Project #1106
Site Plan Map
Kiel Self Service Mobil
84 Park Avenue
Kiel, Wisconsin
1106
Moraine Environmental, Inc.
02-10-99
Figure 1


B
B'
NOTE: LINES BETWEEN GEOLOGIC COLUMNS INDICATE AREAS OF INFERRED STRATIGRAPHY
MSL
910 ft.
905 ft.
900 ft.
895 ft.
890 ft.
885 ft.
SB-4
SB-9/GW1
SB-6
SB-13
0 10 20 feet
Horizontal Scale
KEY
Asphalt/Concrete Surface with Gravel Fill Material
Silts:
Silt, Clay-Silt, Sand-Silt
Clays:
Clay, Sand-Clay, Silt-Clay
Sands:
Sand & Gravel, Silt-Sand
Extent of Petroleum Impacted Soil (radius zone) Exceeding NR720
KIEL SELF SERVICE MOBIL
84 Park Avenue
Kiel, Wisconsin
Ozaukee County
Geologic Cross Section B - B'
MEI #1106
Figure 6

April 9, 2003

Wisconsin Department of Commerce
Environmental & Regulatory Services
101 Pleasant Street, Suite #100A
Milwaukee WI 53212-3963

RE: **Winkler Self-Service Mobil** **Project #1106**
84 Park Avenue, Kiel WI
BRRTS #03-36-000911

To Whom It May Concern:

I certify that, to the best of my knowledge, the legal description attached to this statement is complete, accurate, and describes the correct contaminated property site.

If you should have any questions, please do not hesitate to contact me, or my consultant, Moraine Environmental at (262) 377-9060.

Sincerely,

Don Winkler
Winkler Self-Service Mobil

Enc.

COPY

Moraine Environmental, Inc.
Environmental Management Services

17 March, 2004

Moraine Project #1106

Mr. Dennis Dedering
Village Administrator
Village of Kiel
621 6th Street
Kiel, Wisconsin 53042

Re: Notification of Contaminated Soil and Groundwater Within the Village of Kiel Right-of-Way at 84 East Park Avenue, Kiel, WI

Dear Mr. Dedering:

As a condition of Wisconsin Department of Natural Resources (WDNR) site closure for the **Kiel Self Service Mobil (BRRTS # 03-36-0911)** site, Moraine Environmental, Inc. (MEI) is giving written notification of the presence of residual petroleum soil and/or groundwater contamination within the Village of Kiel right-of-way (ROW) beneath East Park Avenue. Petroleum contaminants related to a former leaking Underground Storage Tank (UST) system at 84 East Park Avenue have migrated onto the Village ROW. Petroleum contaminant concentrations and the approximate location of the residual impacts in the soil are presented on the enclosed Tables and Figures.

The Wisconsin Department of Natural Resources (WDNR) has reviewed closure documentation for the above referenced Village of Kiel site and issued a case closed no further action letter. Pursuant to current Wisconsin Department of Natural Resources regulations, MEI believes that soil and groundwater petroleum impacts associated with the Village of Kiel site is no longer a threat to human health or the environment.

If you have any questions or comments, please contact us at (262) 377-9060.

Sincerely,
MORAINE ENVIRONMENTAL, INC.

Thomas C. Sweet
President

Enclosures

cc: Don Winkler-Kiel Mobil
Linda Michalets-Comm
Lisa Evenson-WDNR

F:\WORD\Mswteh11\1106 Off-Site Contamination Letter.doc

1234 12th Avenue • Grafton, WI 53024-1924 • (262) 377-9060 • FAX (262) 377-9770
Email: moraine@execpc.com • www.moraineenvironmental.com

954461

VOL 1921 PG 532

RCPT# 10853. STN
$15.00 MTG

STATE OF WISCONSIN
MANITOWOC COUNTY
PRESTON JONES
REGISTER OF DEEDS
RECEIVED FOR RECORD

28 OCT 2003 9:41:29 AM

Document Number | NOTICE OF CONTAMINATION TO PROPERTY

Legal Description of the Property: In Re: 84 East Park Avenue, Kiel, WI

Parcel 1: Lot Numbered Two (2) of a Certified Survey in Lot Numbered Seventeen (17) of Block Numbered Three (3) of Raider Heights in the City of Kiel, as recorded in the Office of the Register of Deeds for Manitowoc County, Wisconsin, In Volume 12 of Certified Survey Maps on page 31, as Document NO. #655297.

Parcel 2: A non - exclusive driveway easement over the South One Hundred Twenty (120) feet of the East Twenty - five (25) feet of Lot 1 of Certified Survey recorded in Volume 12 of Certified Survey Maps, page 31, #655297 created by Easement recorded in the Office of the Register of Deeds for Manitowoc County, Wisconsin in Volume 871 of Records, page 339, #655548.

STATE OF WISCONSIN)
) ss
COUNTY OF MANITOWOC)

Recording Area 15 ck

Name and Return Address
Moraine Environmental, Inc.
1234 12th Avenue
Grafton, WI 53024 - 1924

51-895-003-017.01
Parcel Identification No.

Section 1. Mr. Don Winkler and C. M. Thiel are the owners of the above-described property.

Section 2. One or more petroleum discharges have occurred on this property. Contaminated soil remains in the vicinity of the dispenser islands. Attached to this notice is Figure 3, prepared by Moraine Environmental, Inc., which indicates the area with residual petroleum contamination. The data for this site (Commerce #53042-1755-84, WDNR BRRTS #03-36-000911) were presented in the *Additional Groundwater Monitoring Results and Request for Case Closure,* July 30, 2003 report.

Section 3. 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 limitations and / or restrictions:

An engineered control restriction for this property is required because residual contaminated soil with benzene above the Comm 46, Wisconsin Administrative Code, Table 2 direct contact value remains on this property in the vicinity of the dispenser islands. It has been shown that the contaminant levels are protective of human health and the environment if the contamination remains beneath the site asphalt / concrete surface cover. An engineered control (asphalt / concrete cap or cover) is the approved remedial alternative for this site. The site cap will be inspected, repaired and maintained on a regular basis until it can be demonstrated that the site cap is no longer needed. If contaminated soil is encountered during any future subsurface excavation or removal of the site building, the contamination shall be managed in accordance with all applicable laws.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Commerce, or its successor, issue a determination that the restrictions set forth in this covenant are no longer required. That property owner shall provide any and all necessary information to the Department in order for the Department to be able to make a determination. Upon receipt of such a request, the Department shall determine whether or not the restrictions contained herein can be extinguished. Conditions under which a restriction may be extinguished will be

determined in accordance with the site specific standards, rules and laws for this property. If the Department determines that the restrictions can be extinguished, an affidavit, with a copy of the Department's written determination, may be recorded to give notice that this restriction, or portions of this restriction are no longer binding. Any restriction placed upon this property shall not be extinguished without the Department's written determination.

IN WITNESS WHEREOF, the owner of the property has executed this document, this 22 day of Sept, 2003

[When appropriate use the following clause]:

By signing this document, [he/she] acknowledges that [he/she] is duly authorized to sign this document on behalf of Kiel Mobil.

Signature: Don L Winkler

Printed Name: Don L. Winkler

Title: owner

Signature:

Printed Name: C M Thiel

Title: owner

Subscribed and sworn to before me
this 22 day of Sept, 2003.

Notary Public, State of Wisconsin
My commission Jan 22 2006

This document was drafted by the Wisconsin Department of Commerce.