GIS REGISTRY INFORMATION

SITE NAME: Berndt's Service

BRRTS #: 03-67-000743 **FID # (if appropriate):** 267050630

COMMERCE # (if appropriate): 53095-2552-48

CLOSURE DATE: 11-9-05

STREET ADDRESS: 648 N. Main St.

CITY: West Bend

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 666759 Y= 330224

CONTAMINATED MEDIA: Groundwater ☐ Soil ☐ Both ☑

OFF-SOURCE GW CONTAMINATION >ES: ☐ Yes ☑ No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): ☐ Yes ☑ No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

CONTAMINATION IN RIGHT OF WAY: ☑ Yes ☐ No

DOCUMENTS NEEDED:

- **Closure Letter, and any conditional closure letter issued** ☑
- **Copy of most recent deed, including legal description, for all affected properties** ☑
- **Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties** ☑
- **County Parcel ID number, *if used for county*, for all affected properties** ☑
- **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. ☑
- **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. ☑
- **Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)** ☑
- **Tables of Latest Soil Analytical Results (no shading or cross-hatching)** ☑
- **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** ☑
- **GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)** ☑
- **SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour** ☑
- **Geologic cross-sections, *if required for SI.*** (8.5x14' if paper copy) ☑
- **RP certified statement that legal descriptions are complete and accurate** signed plat map ☑
- **Copies of off-source notification letters (if applicable)** ☑
- **Letter informing ROW owner of residual contamination (if applicable)**(public, highway or railroad ROW) ☑
- **Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*** NA

revised 7/2/03

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Waukesha Service Center
141 NW Barstow St.
Room 180
Waukesha, Wisconsin 53188
Telephone 262-574-2100
FAX 262-574-2117

November 9, 2005

Mr. Herman Berndt
418 South Fifth Ave.
West Bend, WI 53090

FID# 267050630
BRRTS# 03-67-000743

Subject: Final Case Closure for Berndt's Service, 648 N. Main Street, West Bend

Dear Mr. Berndt:

On August 24, 2005, the Wisconsin Department of Natural Resources (Department) notified you that conditional closure was granted to this case. These conditions were the abandonment of monitoring wells, waste disposal and notification of contaminant migration on to the down-gradient property. On November 9, 2005, the Department received correspondence indicating that you have complied with the conditions of closure. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at the web address listed above.

If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (262) 574-2140.

Sincerely,

Brenda H. Boyce

Brenda H. Boyce, PG
Hydrogeologist
Bureau for Remediation & Redevelopment

c: Andrew Malsom – Drake Environmental, Inc.

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Waukesha Service Center
141 NW Barstow St.
Room 180
Waukesha, Wisconsin 53188
Telephone 262-574-2100
FAX 262-574-2117

August 24, 2005

Mr. Herman Berndt
418 South Fifth Ave.
West Bend, WI 53090

FID# 267050630
BRRTS# 03-67-000743

Subject: Conditional Case Closure for Berndt's Service, 648 N. Main Street, West Bend

Dear Mr. Berndt:

On June 24, 2005, the Wisconsin Department of Natural Resources (Department) received your request for closure of the case described above. The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Department has determined that the petroleum contamination on the site from the former underground storage tank system appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

- The monitoring wells, soil vapor extraction wells and recovery wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Ms. Victoria Stovall on Form 3300-5B found at www.dnr.state.wi.us/org/water/dwg/gw/ or provided by the Department of Natural Resources.

- Any remaining waste (soil piles, drilling spoil, and/or purge water) generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Please send a letter advising me that any remaining waste has been removed once that work is completed.

- Please provide written notice to the current owners of the former Clark Oil Station property that based on the groundwater data at MW-C, the contaminant plume appears to extend onto their property. Section NR 726.05(2)(b)4, Wis. Adm. Code, requires you to provide written notice of the presence of residual groundwater contamination to the owner of any properties that you do not own within this site plume if they are affected by groundwater contamination. This same section of the code requires proof that these letters were received at least 30 days prior to the date which the agency completes its review of the close out report, and that they be included in the GIS registry attachment to the close out report. Note: All letters sent to landowners whose property has groundwater contamination exceeding ch. NR 140 enforcement standards at the time case closure is requested must use the template letter found in Appendix A in ch. NR 726.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed.

If this is a PECFA site, section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (262) 574-2140.

Sincerely,

Brenda H. Boyce

Brenda H. Boyce, PG
Hydrogeologist
Bureau for Remediation & Redevelopment

c: Matthew Giovanelli – Drake Environmental, Inc.

DOCUMENT NO.
359366

VOL REC 578 PAGE 144

STATE BAR OF WISCONSIN — FORM 1
WARRANTY DEED
THIS SPACE RESERVED FOR RECORDING DATA

RECORDED
JAN 6 3 24 PM '75
Register of Deeds
Washington Co., Wis.

RETURN TO
SCHLOEMER, SCHLAEFER, ALDERSON, HICKMANN, SEEFELDT & SPELLA S.C.
WEST BEND, WISCONSIN 53095

This Deed, made between GILBERT A. ARNOLD and GLADYS ARNOLD, his wife, Grantor
and HERMAN J. BERNDT and JANIS BERNDT, his wife, as tenants in common, Grantee,

Witnesseth, That the said Grantor for a valuable consideration

conveys to Grantee the following described real estate in Washington County, State of Wisconsin:

Lots Seven (7) and Eight (8) of Block Two (2) in ARZBACHER'S ADDITION to the Village, now City, of West Bend.

Tax Key #
This is non homestead property.

TRANSFER
$ 65.00
FEE

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining:
And Gilbert A. Arnold and Gladys Arnold, his wife,
warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except current taxes, zoning ordinances, and recorded easements and restrictions
and will warrant and defend the same.

Executed at West Bend, Wisconsin this 3rd day of January, 19 75

SIGNED AND SEALED IN PRESENCE OF

Gilbert A. Arnold (SEAL)
Gilbert A. Arnold

Gladys Arnold (SEAL)
Gladys Arnold

(SEAL)

(SEAL)

Signatures of
authenticated this day of, 19

Title: Member State Bar of Wisconsin or Other Party Authorized under Sec. 706.06 viz.

STATE OF WISCONSIN
Washington County. } ss.

Personally came before me, this 3rd day of January, 19 75, the above named Gilbert A. Arnold and Gladys Arnold, his wife,
to me known to be the person S who executed the foregoing instrument and acknowledged the same.

THIS INSTRUMENT WAS DRAFTED BY
This instrument was drafted by
Aldwin H. Seefeldt
West Bend, Wisconsin

The use of witnesses is optional

Aldwin H. Seefeldt
Aldwin H. Seefeldt
Notary Public, Washington County, Wis.
My commission (expires) (is) permanent

ALDWIN H. SEEFELDT NOTARY PUBLIC STATE OF WISCONSIN

A-9179

BERNDT SERVICE

MAP COMPILED BY:
West Bend GIS Program
Department of Community Development
3/7/01 Map #111911-4

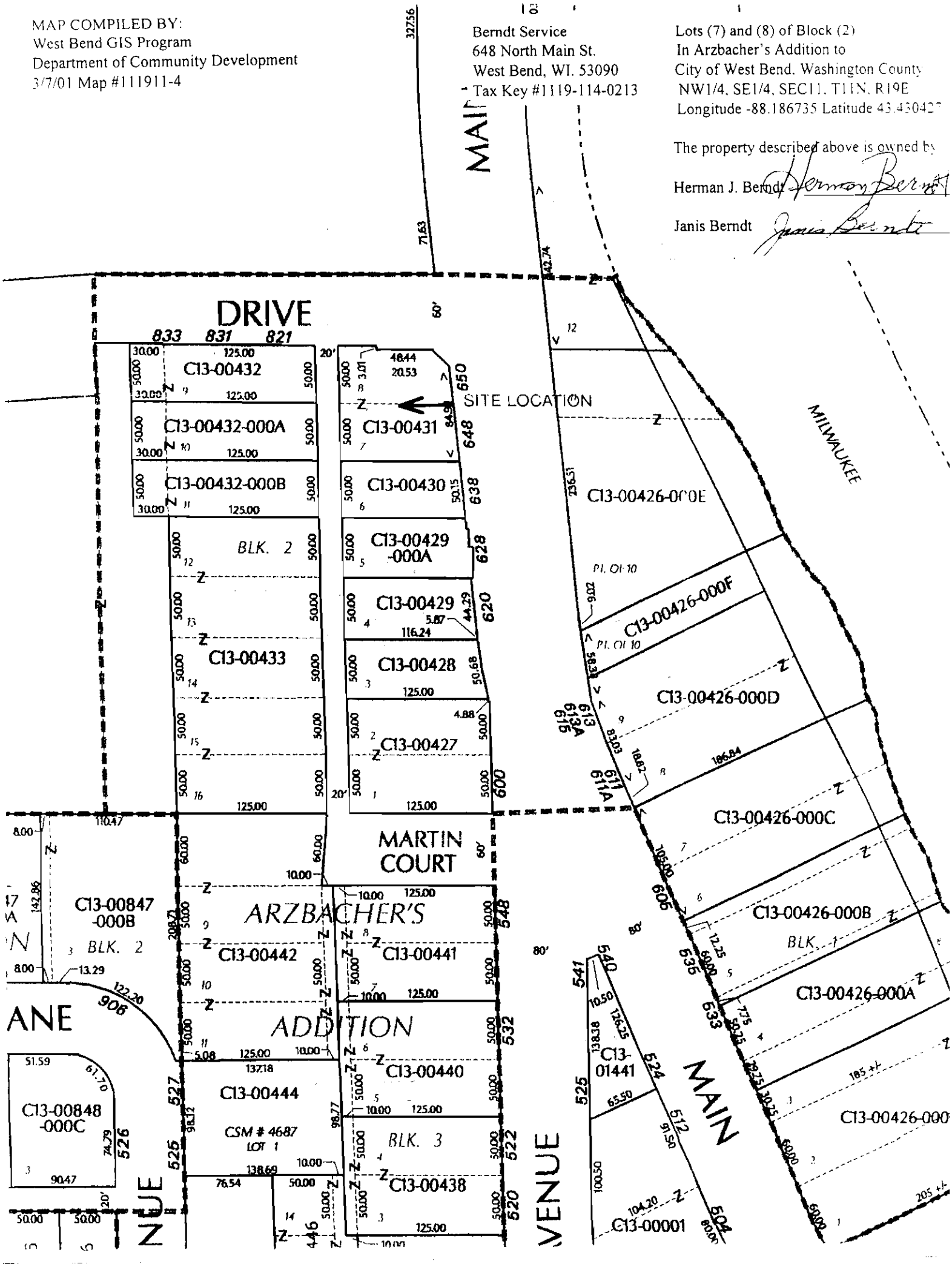
Berndt Service
648 North Main St.
West Bend, WI. 53090
Tax Key #1119-114-0213

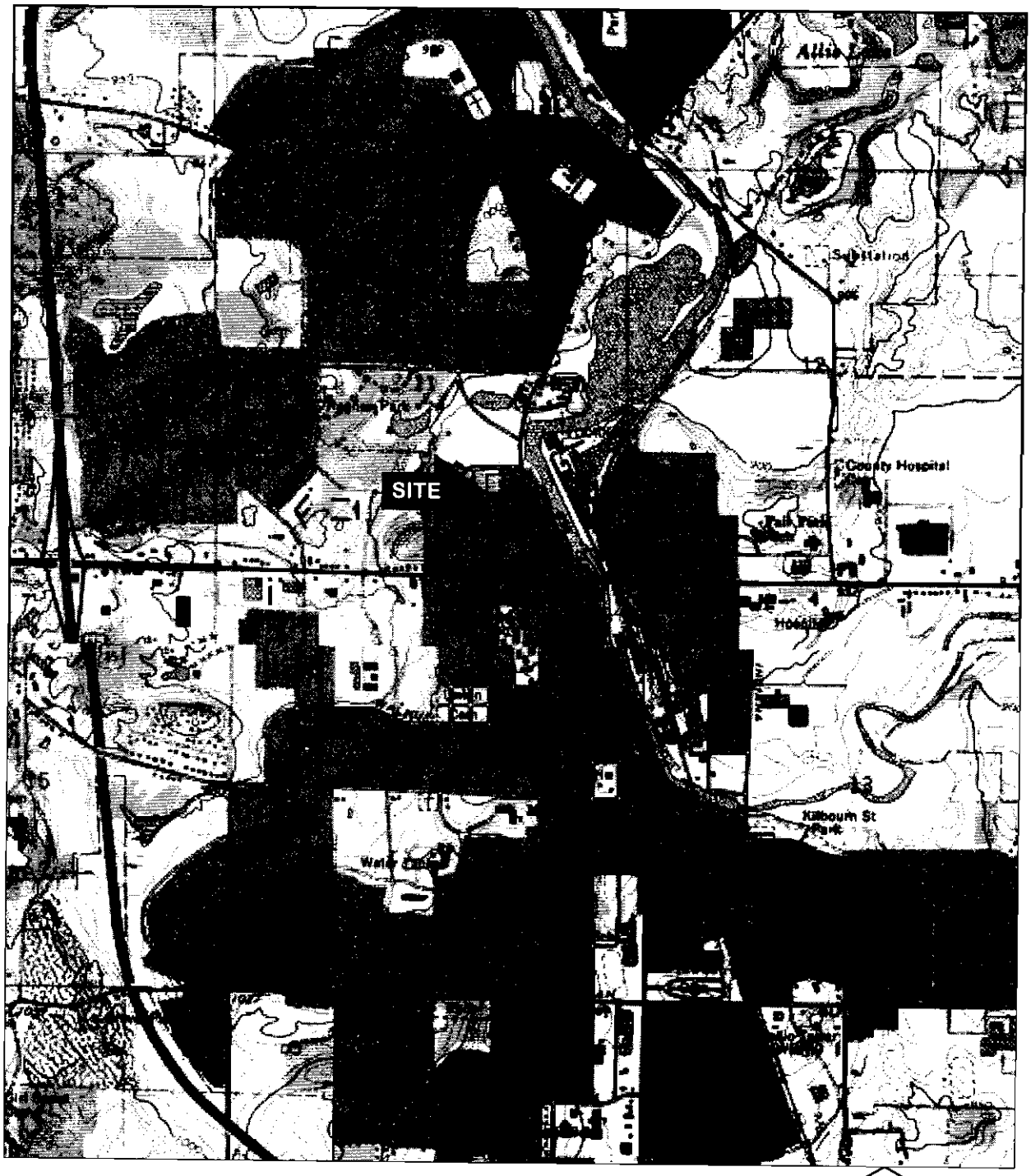
Lots (7) and (8) of Block (2)
In Arzbacher's Addition to
City of West Bend. Washington County
NW1/4, SE1/4, SEC11, T11N, R19E
Longitude -88.186735 Latitude 43.430427

The property described above is owned by

Herman J. Berndt *Herman Berndt*

Janis Berndt *Janis Berndt*





WEST BEND, WISCONSIN
USGS 7.5 MINUTE QUADRANGLE MAP
CREATED 1959, PHOTOREVISED 1994
SW 1/4 SE 1/4 SEC 11 T11N R19E

NORTH

DIAGRAM SCALE
0 1000 2000
1 INCH = 2000 FEET

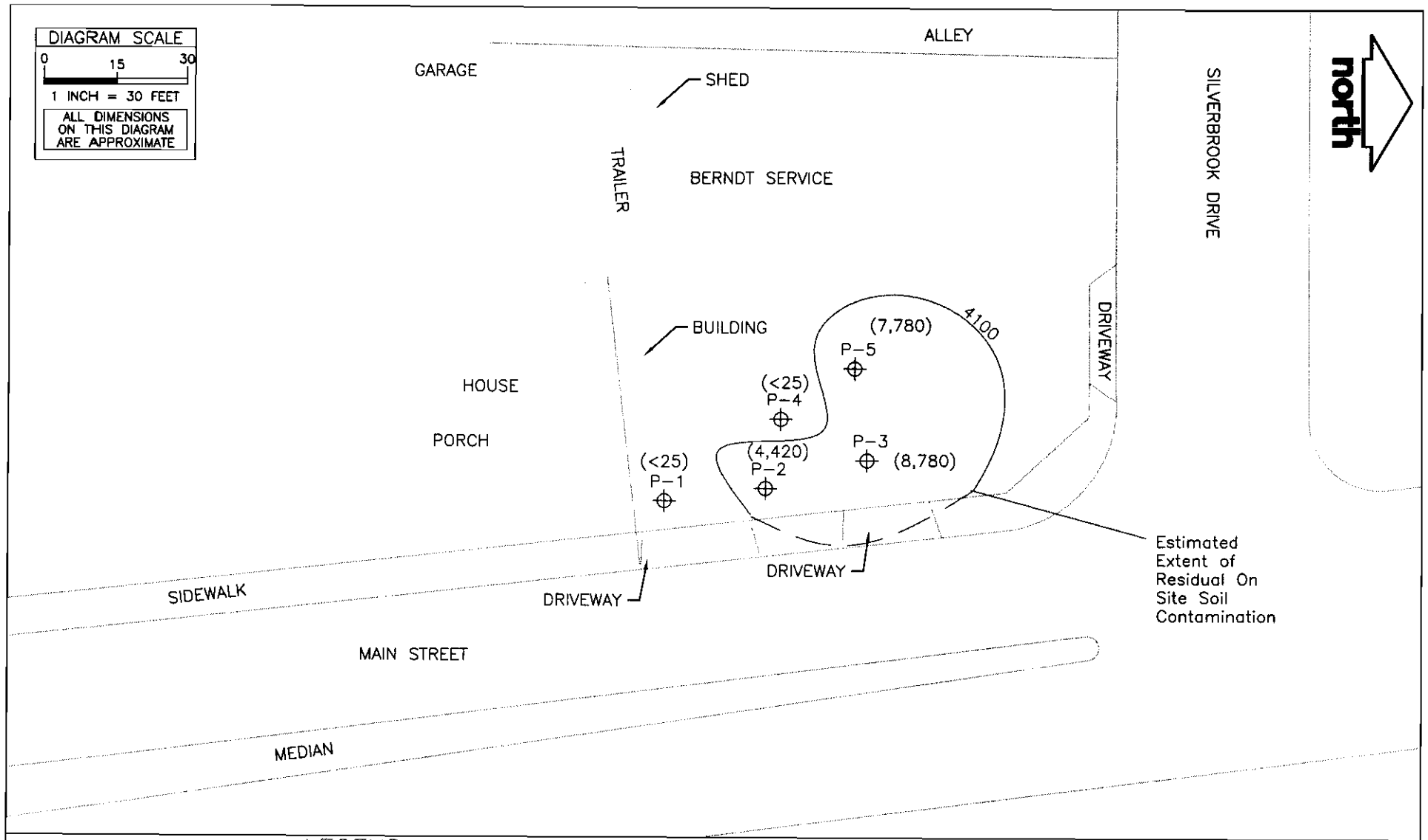
DRAKE ENVIRONMENTAL, INC.

BERNDT'S SERVICE STATION PROPERTY
WEST BEND, WISCONSIN

PROJECT NO: J02131	PM:	
DRAWN BY: CMC	DATE: 3/25/05	
CHKED BY:	DATE:	
APRVD BY:	DATE:	

VICINITY DIAGRAM

FIGURE 4



LEGEND

( ) Concentration in ppb

⊕ POST-REMEDIAL SOIL SAMPLE LOCATION

NOTE:
Surficial contaminated soils in Main Street are presumed to have been removed by DOT during Main Street reconstruction.

DRAKE ENVIRONMENTAL, INC.

BERNDT SERVICE
WEST BEND, WI

PROJECT NO: J02131	PM: AAM
DRAWN BY: AAM	DATE: 3/22/05
CHECKED BY:MRG	DATE: 6/20/05
APPRVD BY:DJB	DATE: 6/22/05
FILE:J02131A1.DWG	

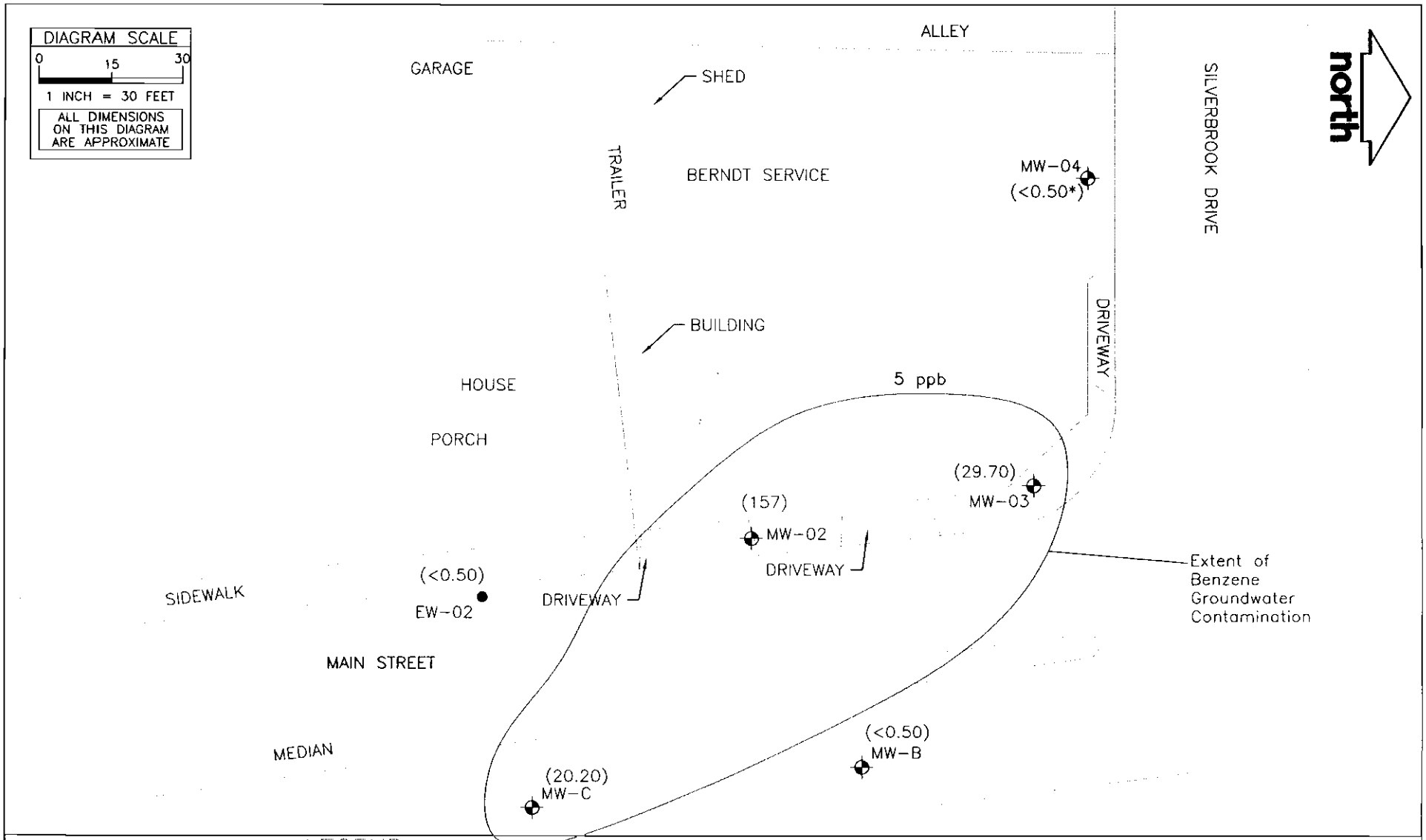
Post Remedial Xylene Concentrations In Soil

FIGURE 1

TABLE 1
Post-Remedial Soil Quality Results
Bermdt Service
West Bend, Wisconsin

Location	Date Collected	Depth (ft.)	GRO (ppm)	Benzene	Ethylbenzene	MTBE	Toluene	1,2,4-Trimethyl-Benzene	1,3,5-Trimethyl-Benzene	Total Xylenes
P-1	7/3/2003	2-4	<5.52	<25	<25	<25	<25	<25	<25	<25
P-2	7/3/2003	2-4	87.7	**79.2**	1120	<25	237	1290	701	**4420**
P-3	7/3/2003	2-4	**263**	<25	1900	<25	499	6820	3030	**8780**
P-4	7/3/2003	2-4	<5.62	<25	<25	<25	<25	<25	<25	<25
P-5	7/3/2003	2-4	73.8	**92.6**	1640	<25	256	3340	1400	**7780**
NR 720 Soil Standards			**100***	**5.5**	**2,900**	**NS**	**1,500**	**NS**	**NS**	**4,100**
COMM 46 / NR 746.06 Table 2 Soil Standards			*NS*	***1,100***	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Notes: All values expressed in parts per billion ppb unless otherwise noted
ppm - parts per million
* - GRO standard for permeable soils (K < 10E-6 cm/s)
Italicised and **bold** results indicate compound concentrations exceed NR 746.06 table 2 standards
Bold results indicate compound concentrations exceed NR 720 Generic Standards.
GRO - Gasoline range organics
NS - No Standard



LEGEND

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- ( ) Concentration in ppb

* sampled 11-17-03

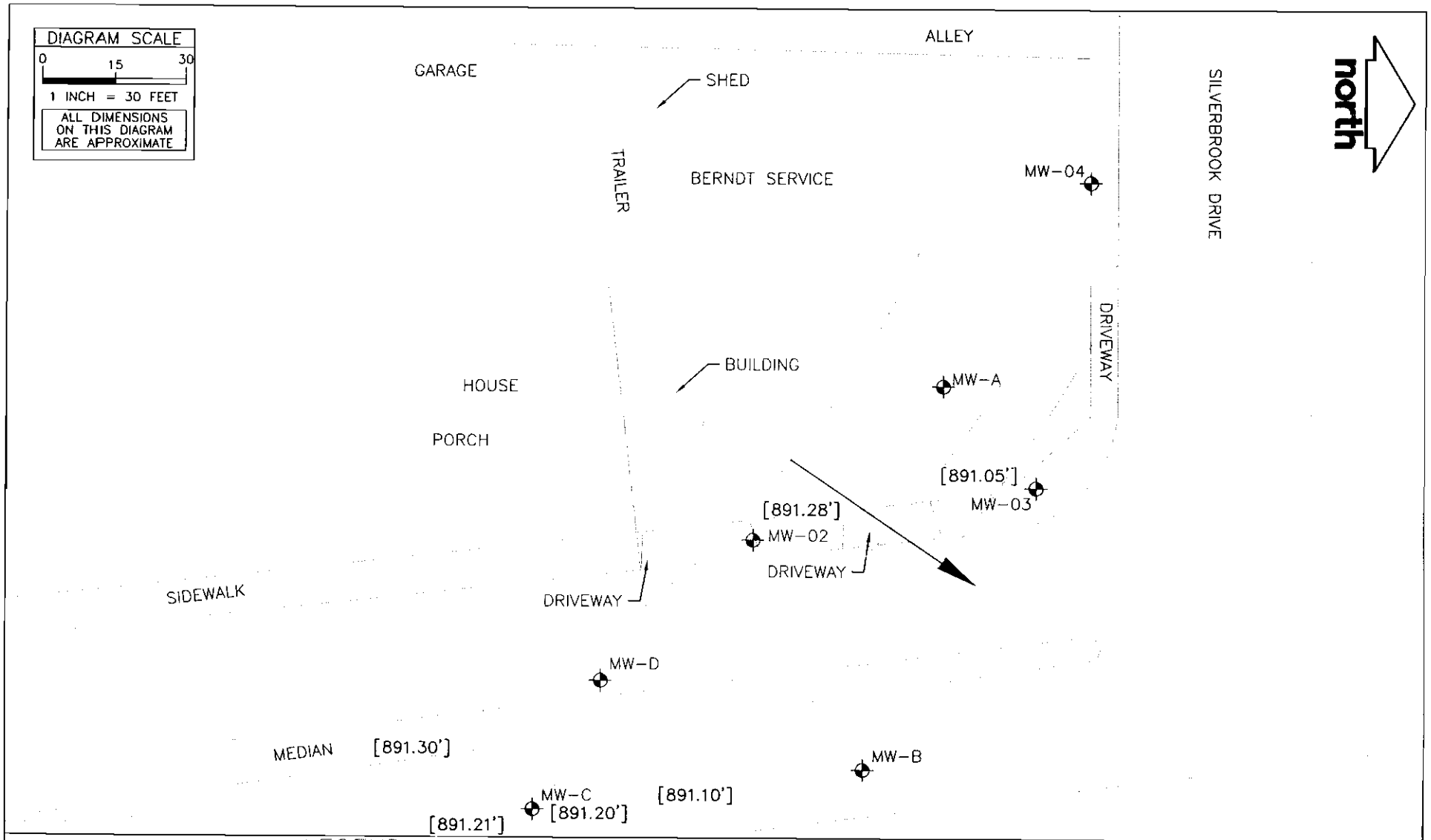
DRAKE ENVIRONMENTAL, INC.

BERNDT SERVICE
WEST BEND, WI

PROJECT NO: J02131	PM: AAM
DRAWN BY: AAM	DATE: 3/22/05
CHECKED BY:MRG	DATE: 6/20/05
APPRVD BY:DJB	DATE: 6/22/05
FILE:J02131A1.DWG	

Groundwater Benzene Distibution
2/18/04

FIGURE
2



LEGEND

⊕ = MONITORING WELL LOCATION

DRAKE ENVIRONMENTAL, INC.

BERNDT SERVICE
WEST BEND, WI

PROJECT NO: J02131	PM: AAM
DRAWN BY: AAM	DATE: 3/22/05
CHECKED BY:	DATE:
APPRVD BY:	DATE:
FILE:	

Groundwater Flow Direction 11/17/2003

FIGURE 3

Table 4
Post-Remedial Groundwater Elevations
Berndt Service
West Bend, Wisconsin

Well Number	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-C	897.36	2/21/2003	6.47	**890.89**
		7/3/2003	6.19	**891.17**
		11/17/2003	6.15	**891.21**
MW-2	896.93	2/21/2003	5.95	**890.98**
		7/3/2003	5.45	**891.48**
		11/17/2003	5.65	**891.28**
MW-3	896.75	2/21/2003	5.60	**891.15**
		7/3/2003	5.45	**891.30**
		11/17/2003	5.70	**891.05**

*Measured from the north rim of the top of well casing.
All measurements are presented in feet.
Benchmark: Elevations are referenced to mean sea level

TABLE 2
Post-Remedial Groundwater Analytical Results
Detected Petroleum Volatile Organic Compound's
Berndt Service
West Bend, Wisconsin

Well ID	Sampling Date	GRO (ppb)	DRO (ppm)	Benzene (ppb)	1,2-DCA (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Toluene (ppb)	Total Tri-methylbenzene (ppb)	Total Xylenes (ppb)
MW-2	02/21/03	53,100	8.62	**2,130**	<150	**2,730**	<100	**17,500**	**1,460**	**12,300**
	07/03/03	48,100	5.24	**1,740**	<150	**2,480**	<100	**15,100**	**1,670**	**12,800**
	11/17/03	42,000	11.90	**1,260**	<6.0	**2,550**	<4.00	**9,690**	**2,172**	*11,100*
	02/18/04	14,000	4.96	**157**	<25.0	**871**	<10.6	*342*	**783**	*4,000*
MW-3	02/21/03	3,210	1.27	**52.60**	<3.0	*330*	*15.20*	7.15	<52	187
	07/03/03	217	0.19	*1.79*	<0.3	4.56	<0.2	<0.50	<1.0	<0.50
	11/17/03	<50	0.157	<0.50	<0.3	<0.50	<0.20	<0.50	<1.0	<0.50
	02/18/04	1,820	0.48	**29.70**	<.50	42.60	<0.21	<5.0	<5.0	23.10
MW-4	02/21/03	<50	NA	<0.50	NA	<0.50	<0.20	<0.50	<2.0	<0.50
	07/03/03	<50	NA	<0.50	NA	<0.50	<0.20	<0.50	<1.0	1.16
	11/17/03	<50	NA	<0.50	NA	<0.50	<0.20	<0.50	<1.0	<0.50
	02/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-B	02/21/03	<50	NA	<0.50	NA	<0.50	<0.20	<0.50	<2.0	<0.50
	07/03/03	<50	NA	<0.50	NA	<0.50	<0.20	<0.50	<1.0	<0.50
	11/17/03	<50	NA	<0.50	NA	<0.50	<0.20	<0.50	<1.0	<0.50
	02/18/04	<1250	NA	<0.50	NA	<5.0	<0.51	<5.00	<5.0	<5.00
MW-C	02/21/03	13700	NA	**34.60**	NA	**1,370**	<10	49	**2,366**	*4,950*
	07/03/03	6710	NA	**19.60**	NA	*471*	7.77	14.20	**969.40**	*1,250*
	11/17/03	1860	NA	*4.71*	NA	66.5	0.77	4.52	*233.33*	141
	02/18/04	14300	NA	**20.20**	NA	**1,050**	<12.8	<125	**2,631**	*3,680*
EW-2	02/21/03	7230	NA	**17.50**	NA	51.70	*26.30*	2.62	**1,000**	118.00
	07/03/03	1100	NA	**19.60**	NA	32.40	<0.20	3.80	*102.20*	42.70
	11/17/03	2670	NA	**5.98**	NA	53.60	2.43	6.18	*398.20*	107.00
	02/18/04	4590	NA	<0.50	NA	42.20	6.50	<5.00	*210.90*	121.00
NR 140 ES (ppb)		*NS*	*NS*	*5.00*	*5.00*	*700*	*60*	*1,000*	*480*	*10,000*
NR 140 PAL (ppb)		*NS*	*NS*	*0.50*	*0.50*	*140*	*12*	*200*	*96*	*1,000*

Notes:
Concentrations in bold type exceed NR 140 Enforcement Standards (ES)
Concentrations italicized exceed NR 140 Preventive Action Limit (PAL) Standards
NA: Not Analyzed
NS: No Standard
ppb: parts per billion
GRO: Gasoline range organics
DRO: Diesel range organics
DCA: Dichloroethane
MTBE: methyl-tert-butyl-ether

TABLE 3
Post-Remedial Groundwater Analytical Results
Detected PAH's
Berndt Service
West Bend, Wisconsin

Well ID	Sampling Date	Acenaphthene (ppb)	Acenaph-thylene (ppb)	Benzo (a) Anthracene (ppb)	Benzo (a) Pyrene (ppb)	Benzo (b) Fluoranthene (ppb)	Benzo (k) Fluoranthene (ppb)	Chrysene (ppb)	Dibenz (a,h) Anthracene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)
MW-2	02/21/03	< 5.00	107.00	< 0.10	< 0.02	< 0.02	< 0.1	< 0.02	< 0.1	49.20	197.00	**436.00**
	07/03/03	< 5.00	14.70	< 0.10	< 0.02	< 0.02	< 0.10	< 0.02	< 0.10	23.30	85.80	**249.00**
	11/17/03	< 50	< 5.00	0.427	< 0.02	< 0.02	0.196	**0.25**	1.30	36.10	138.00	**391.00**
	02/18/04	16.70	< 5.00	< 0.10	*0.05*	< 0.02	< 0.10	< 0.20	< 0.1	22.80	73.50	**103.00**
MW-3	02/21/03	< 5.00	22.20	< 0.10	< 0.02	< 0.02	< 0.10	< 0.02	< 0.10	< 5.00	< 5.00	*43.80*
	07/03/03	< 5.00	< 5.00	< 0.10	< 0.021	< 0.02	< 0.10	< 0.02	< 0.10	< 5.00	< 5.00	< 5.00
	11/17/03	< 5.00	< 5.00	< 0.10	< 0.02	0.043	< 0.10	*0.063*	< 0.10	< 5.00	< 5.00	< 5.00
	02/18/04	< 5.00	< 5.00	< 0.10	< 0.02	< 0.20	< 0.10	< 0.20	< 0.10	< 5.00	< 5.00	*10.80*
MW-4	02/21/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/03/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-B	02/21/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/03/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-C	02/21/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/03/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EW-2	02/21/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/03/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NR ES (ppb)		*NS*	*NS*	*NS*	**0.20**	**0.20**	*NS*	**0.20**	*NS*	*NS*	*NS*	**100**
NR PAL (ppb)		*NS*	*NS*	*NS*	*0.02*	*0.02*	*NS*	*0.02*	*NS*	*NS*	*NS*	*20*

Notes:
Concentrations in bold type exceed NR 140 Enforcement Standards (ES)
Concentrations italicized exceed NR 140 Preventive Action Limit (PAL) Standards
NA: Not Analyzed
NS: No Standard
ppb: parts per billion
GRO: Gasoline range organics
DRO: Diesel range organics
PAH: Polycyclic aromatic hydrocarbons
MTBE: methyl-tert-butyl-ether

FIG. 3

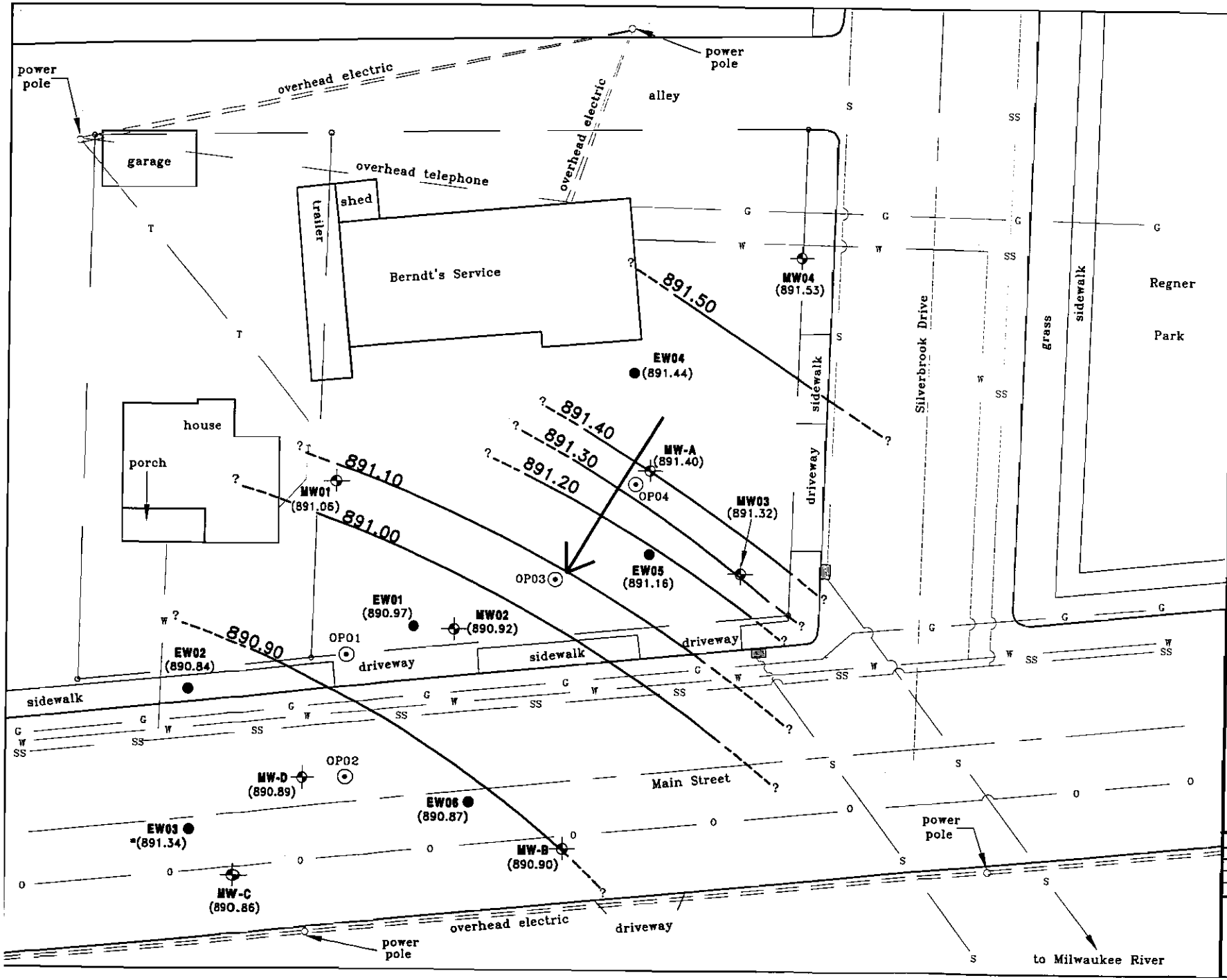


Figure 3

INTERPRETED SHALLOW GROUNDWATER FLOW DIRECTION

August 4, 1995 (Baseline)

Berndt's Service

648 North Main Street

West Bend, WI

— · —	= property line
— G —	= natural gas line
— O —	= fiber optic cable
— S —	= storm sewer line
— SS —	= sanitary sewer line
— T —	= buried telephone line
— W —	= watermain
— - —	= street center line
OP01 ⊙	= SVE Observation Probe location and I.D.
MW-D ⊕	= monitoring well location and I.D.
EW01 ●	= dual extraction well location and I.D.
(890.97)	= static water elevation (8/4/95)
→	= interpreted shallow groundwater flow direction (8/4/95)
? 891.50	= groundwater contour line, dashed and question marked where inferred.

contour interval = .1 foot

* Note: Extraction Well #3 was not used to interpret groundwater flow direction.

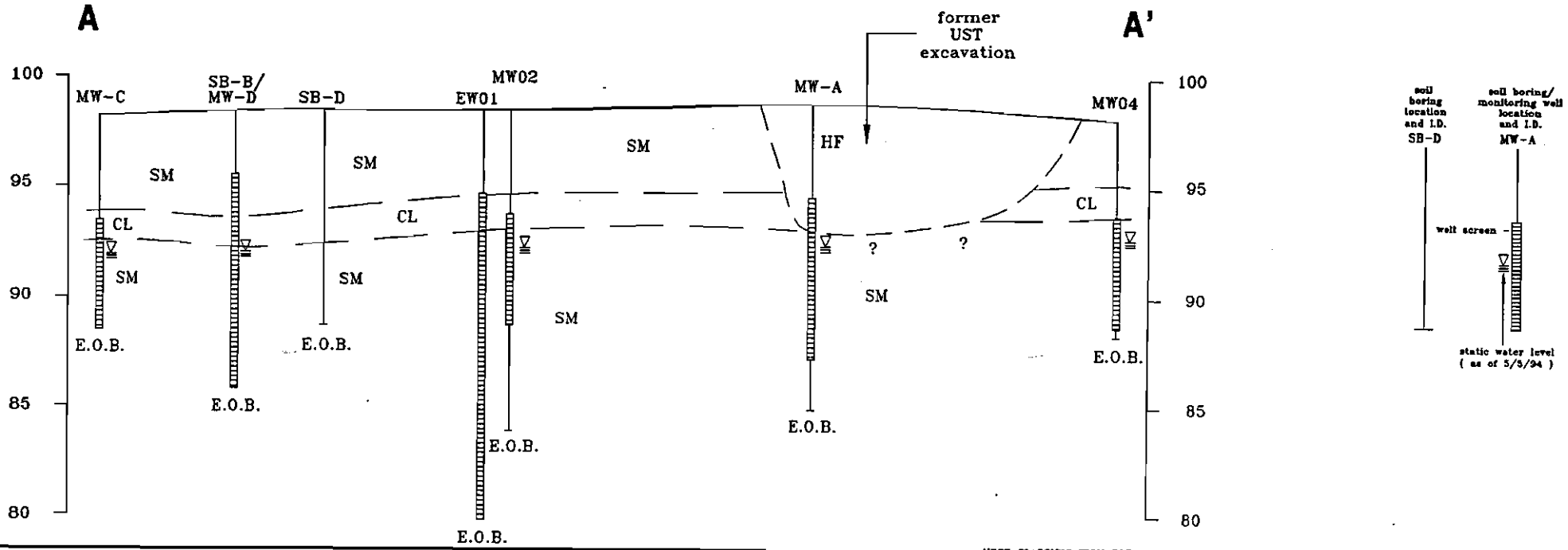
date:	drafted by:	checked by:	approved by:
2/20/96	PDE	DML	RES

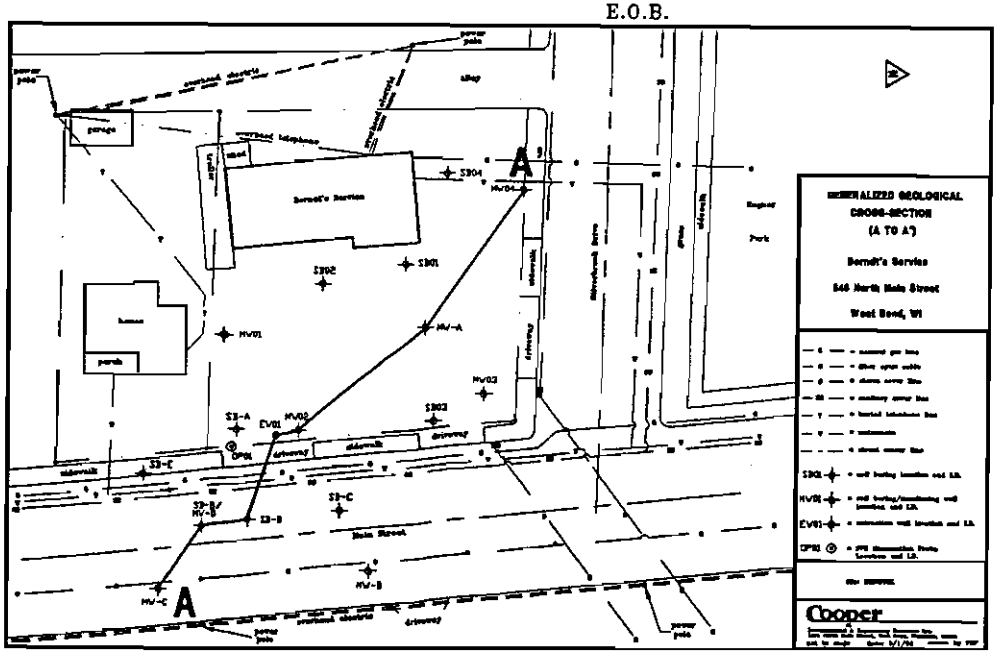
Cooper

Environmental & Engineering Resources Inc.
1411 North Main Street, West Bend, Wisconsin, 53095

scale: 1" = 20' file: D:\DWGS\BERNDT\GF8495

FIG. 4





USCS CLASSIFICATION FOR SOILS

COURSE-GRAINED SOILS

CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	GC	CLAYEY GRAVELS GRAVEL-SAND-CLAY MIXTURES
CLEAN SANDS (LITTLE OR NO FINES)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SM	SILTY SANDS, SAND-SILT MIXTURES
	SC	CLAYEY SANDS, SAND-CLAY MIXTURES

FINE-GRAINED/HIGHLY ORGANIC SOILS

SILTS AND CLAYS (LIQUID LIMIT LESS THAN 50)	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50)	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS
	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS	PT	PEAT, HUMUS, SWAMP SOILS, WITH HIGH ORGANIC CONTENTS
FILL	HF	NON-INDIGENOUS FILL MATERIAL

GENERALIZED GEOLOGICAL CROSS-SECTION (A TO A')

Berndt's Service

648 North Main Street

West Bend, WI.

Horizontal Scale : 1" = 20'
Vertical Scale : 1" = 5'
Vertical Exaggeration : 4 times

date:	drafted by:	checked by:	approv
9/6/94	PDF		
9/7/94		RJ	
10/20/94			SHK

Cooper

Environmental & Engineering Resources Inc.
1411 North Main Street, West Bend, Wisconsin, 53095
file: BRDNT

Table 1

Summary of Quarterly Groundwater Analytical Results

Berndts Service

West Bend, Wisconsin

Well Number	Date Sampled	Sample ID	Benzene	Ethylbenzene	MTBE	Toluene	TMB	Total Xylenes	Total PVOCs
MW01	08/10/95	BE/MW01-F	0.9	ND(<1.0)	2.9	ND(<1.0)	29.4	5.5	68.1
	11/08/95	BE/MW01-G	1.7	ND(<1.0)	24	1	59.8	9.8	156
	03/05/96	BE/MW01-H	0.9	1.3	13	ND(<1.0)	24	7.1	70.3
	06/24/96	BE/MW01-I	1.4	ND(<1.0)	49	ND(<1.0)	58.6	14.5	182
	09/25/96	BE/MW01-I	1.1	ND(<1.0)	18	ND(<1.0)	51.2	5.8	127
	12/10/96	BE/MW01-K	2.3	3.1	18	ND(<1.0)	39	2.5	104
	03/03/97	BE/MW01-L	0.6	ND(<0.30)	11.0	ND(<0.40)	2.7	2.3	19.3
	06/17/97	BE/MW01-M	1.6	3.8	17.0	ND(<0.28)	6.1	3.1	37.7
	09/22/97	BE/MW01-N	2.5	0.25	3.7	0.55	49	5.3	110
	12/18/97	BE/MW01-O	0.43 Q	ND(<0.23)	1.1 Q	ND(<0.28)	28.0	1.1 Q	30.6
	02/26/98	BE/MW01-P	ND(<0.30)	ND(<0.20)	ND(<0.20)	0.4 Q	2.1	ND	2.5
	06/19/98	BE/MW01-Q	2.3	ND(<0.24)	2.8	0.79	0.87 Q	1.9 Q	8.66
	10/01/98	BE/MW01-R	1.5	ND(<0.24)	1.7	0.8	23	2.56 Q	29.59
	12/09/98	BE/MW01-S	1.3	ND(<0.24)	0.67 Q	0.88	30	2.57 Q	35.4
	03/15/99	BE/MW01-T	1.0	ND(<0.44)	3.0	0.45	4.9	1.9	11.25
	06/30/99	BE/MW01-U	2.1	ND(<0.22)	ND(<0.16)	0.28	1.3	1.5	5.18
	09/09/99	BE/MW01-V	2.1	3.3	ND(<1.1)	0.78	21	1.6	28.78
	12/15/99	BE/MW01	0.72	ND(<0.22)	9.1	ND(<0.20)	0.28	ND	10.10
	03/07/2000	BE/MW01-W	ND(<0.500)	ND(<0.500)	0.971	ND(<0.500)	ND	0.665	1.64
	06/24/2000	BE/MW01-X	ND(<0.500)	ND(<0.500)	ND(<0.200)	ND(<0.500)	ND	ND(<0.500)	ND
	09/24/2000	BE/MW01-Y	0.700	ND(<0.500)	0.465	ND(<0.500)	1.11	0.613	2.89
	01/25/2001	Not Sampled							
MW02	11/11/94	BE/MW02-D	**22,000**	**2,400**	ND(<250)	**35,000**	**1,930**	**12,000**	75,260
	05/09/95	BE/MW02-E	**22,000**	**2,600**	ND(<200)	**38,000**	**2,200**	**13,000**	80,000
	08/10/95	BE/MW02-F	**17,000**	**2,500**	ND(<200)	**32,000**	**2,580**	**13,200**	69,860
	11/08/95	BE/MW02-G	**20,000**	**2,500**	ND(<250)	**36,000**	**2,170**	**13,200**	76,040
	03/05/96	BE/MW02-H	**21,000**	**2,400**	ND(<250)	**36,000**	**2,070**	**12,200**	75,740
	06/24/96	BE/MW02-I	**16,000**	**2,400**	ND(<200)	**31,000**	**2,170**	**12,500**	66,240
	09/25/96	BE/MW02-I	**17,000**	**2,500**	ND(<250)	**34,000**	**2,440**	**13,900**	72,280
	12/10/96	BE/MW02-K	**18,000**	**2,600**	ND(<200)	**36,000**	**2,840**	**14,300**	76,580
	03/03/97	BE/MW02-L	**17,000**	**2,400**	ND(<50)	**35,000**	**2,250**	**12,800**	71,700
	06/17/97	BE/MW02-M	**19,000**	**2,900**	ND(<110)	**39,000**	**2,300**	**14,500**	80,000
	09/22/97	BE/MW02-N	**16,000**	**3,300**	ND(<130)	**34,000**	**3,320**	**16,400**	76,340
	12/18/97	BE/MW02-O	**16,000**	**2,800**	ND(<130)	**34,000**	**2,700**	**14,200**	72,400
	02/26/98	BE/MW02-P	**23,000**	**2,800**	ND(<100)	**48,000**	**2,050**	**15,000**	92,900
	06/19/98	BE/MW02-Q	**14,000**	**2,600**	ND(<0.55)	**34,000**	**2,230**	**13,000**	68,060
	10/01/98	BE/MW02-R	**14,000**	**3,200**	ND(<0.55)	**42,000**	**2,580**	**16,300**	80,660
	12/09/98	BE/MW02-S	**11,000**	**2,700**	ND(<0.55)	**35,000**	**2,220**	**13,800**	66,940
	03/15/99	BE/MW02-T	**7,400**	**2,300**	**230**	**30,000**	**30,000**	**12,000**	81,930
	06/30/99	BE/MW02-U	**4,700**	**2,300**	**180**	**29,000**	**1,790**	**12,000**	49,970
	09/09/99	BE/MW02-V	**4,100**	**2,200**	ND(<80)	**28,000**	**1,760**	**11,000**	47,060
	12/15/99	BE/MW02	**4,300**	**2,900**	ND(<32)	**31,000**	**2,760**	**15,000**	55,960
	03/07/2000	BE/MW02-W	**3,710**	**2,690**	ND(<40.0)	**27,100**	**2,150**	**13,300**	48,950
	06/24/2000	BE/MW02-X	**2,770**	**2,770**	ND(<100)	**24,700**	**2,841**	**14,300**	47,381
	09/24/2000	BE/MW02-Y	**1,660**	**2,330**	ND(<100)	**18,200**	**2,111**	**11,100**	35,401
	01/25/2001	BE/MW02-Z	**3,870**	**2,620**	ND(<100)	**23,200**	**2,347**	**12,600**	44,637
NR 140 ES*			5	700	60	343	480	620	NA
NR140 PAL*			0.5	140	12	68.6	96	124	NA

Notes: all concentrations reported in ug/L unless noted

PVOCs = Petroleum Volatile Organic Compounds

E= Estimated value

ND( ) = Not detected above limit of detection (detection limit)

-- = Parameter not analyzed for

NA = Not applicable, standard does not presently exist for this parameter

* = Groundwater Standards from s. NR 140, Wis. Adm. Code, December 1998

ES = NR 140 Enforcement Standard

PAL = NR 140 Preventive Action Limit

1,200 = Enforcement Standard Exceedence

57 = Preventive Action Limit Exceedence

TMB = Trimethlybenzenes

Table 1, continued

Summary of Quarterly Groundwater Analytical Results

Berndts Service

West Bend, Wisconsin

Well Number	Date Sampled	Sample ID	Benzene	Ethylbenzene	MTBE	Toluene	methylbenzen	Total Xylenes	Total PVOCs
	08/10/95	BE/MW03-F	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	11/08/95	BE/MW03-G	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	03/05/96	BE/MW03-H	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	06/24/96	BE/MW03-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	09/25/96	BE/MW03-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	12/10/96	BE/MW03-K	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
MW03	03/03/97	BE/MW03-L	ND(<0.20)	ND(<0.30)	ND(<0.20)	ND(<0.40)	ND	ND	ND
	06/17/97	BE/MW03-M	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	09/22/97	BE/MW03-N	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	12/18/97	BE/MW03-O	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	02/26/98	BE/MW03-P	ND(<0.30)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND	ND	ND
	06/19/98	BE/MW03-Q	0.82 Q	2.3	ND(<0.22)	5.6	1.6 Q	13.3	23.62
	10/01/98	BE/MW03-R	0.53 Q	0.7 Q	ND(<0.22)	0.81	2.32 Q	3.78 Q	8.14
	12/09/98	BE/MW03-S	0.53 Q	0.99	ND(<0.22)	0.82	3.63 Q	5.86	13.91
	03/15/99	BE/MW03-T	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	0.46	0.46
	06/30/99	BE/MW03-U	**5.6**	0.85	ND(<0.16)	0.40	0.31	1.2	8.36
	09/09/99	BE/MW03-V	1.8	2.7	ND(<0.16)	ND(<0.20)	1.1	1.8	7.40
	12/15/99	BE/MW03	0.24	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	0.24
	03/07/2000	BE/MW03-W	0.985	0.907	ND(<0.200)	8.86	1.98	5.68	18.41
	06/24/2000	BE/MW03-X	**134**	106	ND(<0.200)	17.3	54.6	222	534
	09/24/2000	BE/MW03-Y	**5.35**	10.4	ND(<0.200)	0.607	5.83	13.4	35.6
	01/25/2001	Not Sampled							
	08/10/95	BE/MW04-F	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	11/08/95	BE/MW04-G	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	03/05/96	BE/MW04-H	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	06/24/96	BE/MW04-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	09/25/96	BE/MW04-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	12/10/96	BE/MW04-K	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	03/03/97	BE/MW04-L	ND(<0.20)	ND(<0.30)	ND(<0.20)	ND(<0.40)	ND	ND	ND
MW04	06/17/97	BE/MW04-M	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	09/22/97	BE/MW04-N	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	12/18/97	BE/MW04-O	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	02/26/98	BE/MW04-P	ND(<0.30)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND	ND	ND
	06/19/98	BE/MW04-Q	ND(<0.26)	ND(<0.24)	ND(<0.22)	ND(<0.21)	ND	ND	ND
	10/01/98	BE/MW04-R	ND(<0.26)	ND(<0.24)	ND(<0.22)	ND(<0.21)	ND	ND	ND
	12/09/98	BE/MW04-S	ND(<0.26)	ND(<0.24)	ND(<0.22)	ND(<0.21)	ND	ND	ND
	03/15/99	BE/MW04-T	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	06/30/99	BE/MW04-U	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	09/09/99	BE/MW04-V	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	12/15/99	BE/MW04	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	03/07/2000	BE/MW04-W	ND(<0.500)	ND(<0.500)	ND(<0.200)	0.659	ND	ND(<0.500)	0.659
	06/24/2000	BE/MW04-X	ND(<0.500)	ND(<0.500)	ND(<0.200)	ND(<0.500)	ND	ND(<0.500)	ND
	09/24/2000	BE/MW04-Y	0.502	ND(<0.500)	ND(<0.200)	ND(<0.500)	ND	ND(<0.500)	0.502
	01/25/2001	BE/MW04-Z	ND(<0.500)	ND(<0.500)	ND(<0.200)	0.706	ND	1.20	1.91
NR 140 ES*			5	700	60	343	480	620	NA
NR140 PAL*			0.5	140	12	68.6	96	124	NA

Notes: all concentrations reported in ug/L unless noted
PVOCs = Petroleum Volatile Organic Compounds
E= Estimated value
ND( ) = Not detected above limit of detection (detection limit)
-- = Parameter not analyzed for
NA = Not applicable, standard does not presently exist for this parameter
* = Groundwater Standards from s. NR 140, Wis. Adm. Code, December 1998

ES = NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
1,200 = Enforcement Standard Exceedence
57 = Preventive Action Limit Exceedence
TMB = Trimethlybenzenes

Table 1, continued

Summary of Quarterly Groundwater Analytical Results

Berndts Service

West Bend, Wisconsin

Well Number	Date Sampled	Sample ID	Benzene	Ethylbenzene	MTBE	Toluene	methylbenzen	Total Xylenes	Total PVOCs
MWA	08/10/95	BE/MWA-F	2.5	5.0	ND(<1.0)	ND(<1.0)	19.8	49	96.1
	11/08/95	BE/MWA-G	1.0	3.4	ND(<1.0)	ND(<1.0)	13.7	20.5	52.3
	03/05/96	BE/MWA-H	0.9	4.6	ND(<1.0)	1.3	17.7	41	83.2
	06/24/96	BE/MWA-I	**17**	54	ND(<2.0)	11	162	600	1,006
	09/25/96	BE/MWA-I	1.6	5.7	ND(<1.0)	1	14.3	5.9	42.8
	12/10/96	BE/MWA-K	2.8	4.6	ND(<1.0)	ND(<1.0)	19.2	15	60.8
	03/03/97	BE/MWA-L	**7.2**	14	0.6	1.5	65	77.4	231
	06/17/97	BE/MWA-M	**120**	410	ND(<11)	100	**850**	**4,640**	6,970
	09/22/97	BE/MWA-N	**30**	94	ND(<0.53)	13	175	194	681
	12/18/97	BE/MWA-O	4.6	8.4	ND(<0.53)	0.82 Q	20.0	16.67	50.99
	02/26/98	BE/MWA-P	**9**	8.4	ND(<0.20)	1.9	28.7	21.5	98.2
	06/19/98	BE/MWA-Q	0.31 Q	1	ND(<0.22)	ND(<0.21)	3.7	2.5 Q	7.51
	10/01/98	BE/MWA-R	1.1	2.1	0.85	0.58 Q	11.3	4	19.93
	12/09/98	BE/MWA-S	0.37 Q	1.9	0.24 Q	0.69	9.4	3.8	16.4
	03/15/99	BE/MWA-T	0.24	0.96	ND(<0.16)	0.24	3.43	1.4	6.27
	06/30/99	BE/MWA-U	ND(<0.39)	3.8	ND(<0.16)	0.66	14.8	6.8	26.06
	09/09/99	BE/MWA-V	ND(<0.64)	1.2	ND(<0.85)	0.37	2.3	1.2	5.07
	12/15/99	BE/MWA	ND(<0.13)	1.1	ND(<0.16)	0.26	3.2	1.4	5.96
	03/07/2000	BE/MWA-W	ND(<0.500)	1.39	0.252	0.583	4.60	2.65	9.48
	06/24/2000	BE/MWA-X	ND(<0.500)	2.47	ND(<0.200)	ND(<0.500)	10.2	4.28	17.0
	09/24/2000	BE/MWA-Y	2.02	6.64	ND(<0.200)	2.18	35.8	12.6	59.2
	01/25/2001	BE/MWA-Z	2.38	5.56	ND(<0.200)	30.8	11.4	25.5	75.6
MWB									
	08/10/95	BE/MWB-F	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	11/08/95	BE/MWB-G	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	03/05/96	BE/MWB-H	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	06/24/96	BE/MWB-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	09/25/96	BE/MWB-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	12/10/96	BE/MWB-K	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	03/03/97	BE/MWB-L	ND(<0.20)	ND(<0.30)	ND(<0.20)	ND(<0.40)	ND	ND	ND
	06/17/97	BE/MWB-M	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	09/22/97	BE/MWB-N	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	12/18/97	BE/MWB-O	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	02/26/98	BE/MWB-P	ND(<0.30)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND	ND	ND
	06/19/98	BE/MWB-Q	ND(<0.26)	ND(<0.24)	ND(<0.22)	ND(<0.21)	ND	ND	ND
	10/01/98	BE/MWB-R	ND(<0.26)	ND(<0.24)	ND(<0.22)	ND(<0.21)	ND	ND	ND
	12/09/98	BE/MWB-S	ND(<0.26)	ND(<0.24)	ND(<0.22)	ND(<0.21)	ND	ND	ND
	03/15/99	BE/MWB-T	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	06/30/99	BE/MWB-U	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	09/09/99	BE/MWB-V	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	12/15/99	BE/MWB	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	03/07/2000	BE/MWB-W	ND(<0.500)	ND(<0.500)	ND(<0.200)	ND(<0.500)	ND	ND(<0.500)	ND
	06/24/2000	BE/MWB-X	ND(<0.500)	7.46	ND(<0.200)	ND(<0.500)	5.29	20.2	33.0
	09/24/2000	BE/MWB-Y	ND(<0.500)	0.624	ND(<0.200)	ND(<0.500)	1.39	1.88	3.9
	01/25/2001	BE/MWB-Z	0.850	19.6	ND(<0.200)	5.11	22.5	66.7	115
NR 140 ES*			5	700	60	343	480	620	NA
NR140 PAL*			0.5	140	12	68.6	96	124	NA

Notes: all concentrations reported in ug/L unless noted

PVOCs = Petroleum Volatile Organic Compounds

E= Estimated value

ND( ) = Not detected above limit of detection (detection limit)

-- = Parameter not analyzed for

NA = Not applicable, standard does not presently exist for this parameter

* = Groundwater Standards from s. NR 140, Wis. Adm. Code, December 1998

ES = NR 140 Enforcement Standard

PAL = NR 140 Preventive Action Limit

1,200 = Enforcement Standard Exceedence

57 = Preventive Action Limit Exceedence

TMB = Trimethlybenzenes

Table 1, continued

Summary of Quarterly Groundwater Analytical Results

Berndts Service

West Bend, Wisconsin

Well Number	Date Sampled	Sample ID	Benzene	Ethylbenzene	MTBE	Toluene	methylbenzen	Total Xylenes	Total PVOCs
	08/10/95	BE/MWC-F	**2,300**	**2,100**	ND(<50)	**6,500**	**1,830**	**9,400**	23,960
	11/08/95	BE/MWC-G	**2,500**	**2,400**	ND(<50)	**8,700**	**2,620**	**13,800**	32,640
	03/05/96	BE/MWC-H	**1,800**	**1,800**	ND(<50)	**4,200**	**2,230**	**9,700**	21,960
	06/24/96	BE/MWC-I	**2,400**	**2,300**	ND(<100)	**12,000**	**2,760**	**14,700**	36,920
	09/25/96	BE/MWC-I	**2,100**	**2,800**	ND(<100)	**6,800**	**2,720**	**14,700**	31,840
	12/10/96	BE/MWC-K	**2,500**	**4,300**	ND(<50)	**10,000**	**4,400**	**21,600**	47,100
MWC	03/03/97	BE/MWC-L	**1,600**	**2,900**	ND(<20)	**9,200**	**3,150**	**16,100**	36,100
	06/17/97	BE/MWC-M	**2,000**	**3,900**	ND(<26)	**10,000**	**4,120**	**19,700**	43,840
	09/22/97	BE/MWC-N	**1,000**	**2,500**	ND(<13)	**3,500**	**2,690**	**11,800**	24,180
	12/18/97	BE/MWC-O	**1,000**	**2,600**	ND(<26)	**3,800**	**2,510**	**10,800**	23,220
	02/26/98	BE/MWC-P	**740**	**1,400**	ND(<40)	**6,600**	**1,060**	**8,400**	19,260
	06/19/98	BE/MWC-Q	**280**	**2,600**	ND(<11)	**3,600**	**2,330**	**13,600**	24,740
	10/01/98	BE/MWC-R	**67**	**1,900**	ND(<11)	**1,200**	**1,670**	**10,100**	16,607
	12/09/98	BE/MWC-S	**100**	**3,100**	ND(<11)	**2,600**	**2,850**	**15,800**	27,300
	03/15/99	BE/MWC-T	**29**	**1,500**	23	**920**	**1,500**	**8,000**	11,972
	06/30/99	BE/MWC-U	**7.4**	**1,200**	12	110	**1,177**	**3,900**	6,406
	09/09/99	BE/MWC-V	ND(<5.7)	**1,700**	ND(<3.2)	63	**1,410**	**4,000**	7,173
	12/15/99	BE/MWC	4.4	**1,600**	ND(<4.7)	90	**1,450**	**4,800**	7,944
	03/07/2000	BE/MWC-W	**31.3**	**2,060**	15.4	165	**2,400**	**7,280**	11,952
	06/24/2000	BE/MWC-X	**5.3**	**2,140**	ND(<2.00)	61.1	**2,006**	**5,110**	9,322
	09/24/2000	BE/MWC-Y	**24.8**	**1,630**	10.2	50.6	**1,792**	**3,960**	7,468
	01/25/2001	BE/MWC-Z	**49.8**	**2,450**	34.7	143	**2,829**	**7,230**	12,737
	08/10/95	BE/MWD-F	**2,100**	**2,200**	ND(<100)	**9,700**	**2,800**	**10,700**	30,300
	11/08/95	BE/MWD-G	**3,400**	**1,800**	57	**5,300**	**2,800**	**8,300**	24,457
	03/05/96	BE/MWD-H	**4,500**	**1,700**	ND(<50)	**5,500**	**2,040**	**7,200**	22,980
	06/24/96	BE/MWD-I	**5,000**	**2,200**	ND(<50)	**7,900**	**2,400**	**9,300**	29,200
	09/25/96	BE/MWD-I	**3,700**	**2,500**	ND(<100)	**9,300**	**3,040**	**11,400**	32,980
	12/10/96	BE/MWD-K	**6,200**	**2,600**	ND(<50)	**7,700**	**3,270**	**11,000**	34,040
MWD	03/03/97	BE/MWD-L	**5,300**	**2,800**	ND(<20)	**14,000**	**2,530**	**12,400**	39,560
	06/17/97	BE/MWD-M	**3,600**	**2,900**	ND(<53)	**10,000**	**3,290**	**12,500**	35,580
	09/22/97	BE/MWD-N	**2,700**	**910**	ND(<13)	**400**	**930**	**3,270**	9,140
	12/18/97	BE/MWD-O	**1,700**	**1,000**	ND(<13)	**1,600**	**1,720**	**4,620**	12,360
	02/26/98	BE/MWD-P	**3,400**	**1,200**	ND(<20)	**2,800**	**1,730**	**5,430**	16,290
	06/19/98	BE/MWD-Q	**1,800**	**3,400**	ND(<22)	**14,000**	**3,580**	**14,900**	41,260
	10/01/98	BE/MWD-R	**1,200**	**2,700**	44 Q	**12,000**	**2,400**	**11,500**	29,844
	12/09/98	BE/MWD-S	**460**	**3,500**	ND(<22)	**8,500**	**3,420**	**13,200**	32,500
	03/15/99	BE/MWD-T	**180**	**3,100**	**120**	**2,700**	**2,300**	**10,000**	18,400
	06/30/99	BE/MWD-U	**67**	**2,000**	ND(<8.0)	**2,300**	**1,780**	**6,300**	12,447
	09/09/99	BE/MWD-V	**41**	**1,400**	ND(<3.2)	**2,100**	**1,140**	**4,400**	9,081
	12/15/99	BE/MWD	**13**	**1,400**	ND(<9.3)	**2,000**	**1,440**	**5,100**	9,953
	03/07/2000	BE/MWD-W	**35.5**	**1,690**	29.4	**2,060**	**1,833**	**6,270**	11,918
	06/24/2000	BE/MWD-X	**27.9**	**1,730**	9.39	**6,310**	**1,567**	**8,880**	18,524
	09/24/2000	BE/MWD-Y	**52.0**	**1,400**	50.3	**2,770**	**1,893**	**5,810**	11,975
	01/25/2001	BE/MWD-Z	**55.2**	**1,820**	**105**	**2,410**	**2,194**	**7,440**	14,024
NR 140 ES*			5	700	60	343	480	620	NA
NR140 PAL*			0.5	140	12	68.6	96	124	NA

Notes: all concentrations reported in ug/L unless noted

PVOCs = Petroleum Volatile Organic Compounds

E= Estimated value

ND( ) = Not detected above limit of detection (detection limit)

-- = Parameter not analyzed for

NA = Not applicable, standard does not presently exist for this parameter

* = Groundwater Standards from s. NR 140, Wis. Adm. Code, December 1998

ES = NR 140 Enforcement Standard

PAL = NR 140 Preventive Action Limit

1,200 = Enforcement Standard Exceedence

57 = Preventive Action Limit Exceedence

TMB = Trimethlybenzenes

Table 1, continued

Summary of Quarterly Groundwater Analytical Results

Berndts Service

West Bend, Wisconsin

Well Number	Date Sampled	Sample ID	Benzene	Ethylbenzene	MTBE	Toluene	methylbenzen	Total Xylenes	Total PVOCs
MWE	03/05/96	BE/MWE-H	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	06/24/96	BE/MWE-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	09/25/96	BE/MWE-I	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	12/10/96	BE/MWE-K	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	03/03/97	BE/MWE-L	ND(<0.20)	ND(<0.30)	ND(<0.20)	0.4	ND	ND	ND
	06/17/97	BE/MWE-M	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	09/22/97	BE/MWE-N	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	12/18/97	BE/MWE-O	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	02/26/98	BE/MWE-P	ND(<0.30)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND	ND	ND
	06/19/98	BE/MWE-Q	ND(<0.26)	ND(<0.24)	ND(<0.22)	0.25 Q	ND	ND	0.25 Q
	Well abandoned during reconstruction of Main Street; 6/98-10/98								
EW01	08/10/95	BE/EW01-01	**950**	45	ND(<5.0)	**380**	78	401	1,854
	09/22/97	BE/EW01-N	**510**	76	ND(<2.6)	**660**	123	580	1,949
	02/26/98	BE/EW01-P	**280**	10	ND(<2.0)	280	34	228	832
	10/01/98	BE/EW01-R	**930**	140	3.4 Q	**700**	181	**1,140**	3,091
	03/19/99	BE/EW01-T	**840**	160	ND(<4.1)	**1,100**	150	**970**	3,220
	09/09/99	BE/EW01-V	**270**	110	ND(<3.2)	290	136	**800**	1,606
	03/08/2000	BE/EW01-W	2.95	5.64	ND(<0.200)	6.74	5.74	21.1	42
	06/24/2000	BE/EW01-X	**470**	174	ND(<2.00)	**488**	171	**1,030**	2,333
	09/24/2000	BE/EW01-Y	**122**	**740**	ND(<20.0)	**699**	389	**2,820**	4,770
	01/25/2001	BE/EW01-Z	**266**	543	ND(<2.00)	**726**	461	**1,970**	3,965
EW02	08/10/95	BE/EW02-01	**30**	170	ND(<4.0)	260	278	**1,080**	1,818
	09/22/97	BE/EW02-N	**300**	240	ND(<2.6)	96	256	**740**	1,632
	02/26/98	BE/EW02-P	**38**	13	ND(<0.50)	3.2	118	158	330
	10/01/98	BE/EW02-R	ND(<0.26)	0.34 Q	0.55 Q	ND(<0.21)	3	9.08	12
	03/19/99	BE/EW02-T	4.9	29	ND(<4.1)	32	460	**870**	1,396
	09/09/99	BE/EW02-V	**6.2**	58	ND(<0.80)	3.1	420	340	827
	03/08/2000	BE/EW02-W	ND(<0.500)	0.983	ND(<0.200)	ND(<0.500)	2.50	3.53	7.01
	06/24/2000	BE/EW02-X	ND(<5.00)	300	12.0	10.7	**1,621**	**938**	2,882
	09/24/2000	BE/EW02-Y	**18.1**	187	20.6	ND(<5.00)	**1,158**	**623**	2,007
	01/26/2001	BE/EW02-Z	**41.3**	286	**70.1**	9.62	**1,557**	**879**	2,843
NR 140 ES*			5	700	60	343	480	620	NA
NR140 PAL*			0.5	140	12	68.6	96	124	NA

Notes: all concentrations reported in ug/L unless noted

PVOCs = Petroleum Volatile Organic Compounds

E= Estimated value

ND( ) = Not detected above limit of detection (detection limit)

-- = Parameter not analyzed for

NA = Not applicable, standard does not presently exist for this parameter

* = Groundwater Standards from s. NR 140, Wis. Adm. Code, December 1998

ES = NR 140 Enforcement Standard

PAL = NR 140 Preventive Action Limit

1,200 = Enforcement Standard Exceedence

57 = Preventive Action Limit Exceedence

TMB = Trimethlybenzenes

Table 1, continued

Summary of Quarterly Groundwater Analytical Results

Berndts Service

West Bend, Wisconsin

Well Number	Date Sampled	Sample ID	Benzene	Ethylbenzene	MTBE	Toluene	methylbenzen	Total Xylenes	Total PVOCs
EW03	08/10/95	BE/EW03-01	**4,600**	**770**	ND(<25)	**2,600**	**1,030**	**4,500**	13,500
	09/22/97	BE/EW03-N	**280**	47	ND(<1.3)	270	118	400	1,115
	02/26/98	BE/EW03-P	**53**	ND(<0.20)	ND(<0.20)	38	43	180	314
	10/01/98	BE/EW03-R	**220**	220	4.1 Q	**850**	222	**1,250**	2,762
	03/19/99	BE/EW03-T	**280**	550	ND(<4.1)	**1,600**	**415**	**2,500**	5,345
	09/09/99	BE/EW03-V	**15**	120	ND(<3.2)	67	231	**890**	1,323
	03/08/2000	BE/EW03-W	ND(<0.500)	4.19	ND(<0.200)	2.72	3.98	19.4	30.3
	06/24/2000	BE/EW03-X	**10**	**1,450**	5.31	**808**	**1,029**	**5,010**	8,312
	09/24/2000	BE/EW03-Y	0.898	36.8	ND(<0.200)	1.17	26.2	38.4	103
	01/25/2001	Not Sampled							
EW04	08/10/95	BE/EW04-01	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND	ND	ND
	09/22/97	BE/EW04-N	ND(<0.41)	ND(<0.23)	ND(<0.53)	ND(<0.28)	ND	ND	ND
	02/26/98	BE/EW04-P	ND(<0.30)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND	ND	ND
	10/01/98	BE/EW04-R	ND(<0.26)	ND(<0.24)	ND(<0.22)	ND(<0.21)	ND	ND	ND
	03/19/99	BE/EW04-T	ND(<0.41)	ND(<0.43)	ND(<0.41)	ND(<0.38)	ND	ND	ND
	09/09/99	BE/EW04-V	ND(<0.13)	ND(<0.22)	ND(<0.16)	ND(<0.20)	ND	ND	ND
	03/08/2000	BE/EW04-W	ND(<0.500)	ND(<0.500)	ND(<0.200)	ND(<0.500)	ND	ND(<0.500)	ND
	06/24/2000	BE/EW04-X	ND(<0.500)	7.40	ND(<0.200)	0.555	6.76	8.21	22.9
	09/24/2000	BE/EW04-Y	ND(<0.500)	ND(<0.500)	ND(<0.200)	ND(<0.500)	ND	ND(<0.500)	ND
	01/25/2001	BE/EW04-Z	ND(<0.500)	ND(<0.500)	ND(<0.200)	ND(<0.500)	ND	ND(<0.500)	ND
EW05	08/10/95	BE/EW05-01	**8.9**	4.0	ND(<1.0)	4.6	9.8	84	111
	09/22/97	BE/EW05-N	1.1 Q	9.1	ND(<0.53)	0.85 Q	48	114	171
	02/26/98	BE/EW05-P	**7.0**	15	ND(<0.40)	8.0	32	188	250
	10/01/98	BE/EW05-R	**10.0**	21	2.4	5.5	77	279	395
	03/19/99	BE/EW05-T	**17**	20	ND(<0.41)	7.7	89	260	394
	09/09/99	BE/EW05-V	**7.7**	19	ND(<0.16)	4.1	62	220	313
	03/08/2000	BE/EW05-W	3.68	2.87	ND(<0.200)	ND(<0.500)	18.4	23.6	48.5
	06/24/2000	BE/EW05-X	2.55	4.85	ND(<0.200)	1.94	10.0	23.0	42.3
	09/24/2000	BE/EW05-Y	**64.1**	199	ND(<2.00)	11.7	349	486	1,110
	01/25/2001	BE/EW05-Z	**19.9**	42.5	ND(<1.00)	14.3	100	191	368
EW06	08/10/95	BE/EW06-01	**600**	6.3	ND(<5.0)	75	104	400	1,185
	09/22/97	BE/EW06-N	**260**	70	ND(<2.6)	230	28	249	837
	02/26/98	BE/EW06-P	**330**	110	ND(<2.0)	**380**	101	440	1,361
	10/01/98	BE/EW06-R	**550**	270	8.9	290	216	**780**	2,115
	03/19/99	BE/EW06-T	**570**	480	ND(<8.2)	**640**	367	**1,200**	3,257
	09/09/99	BE/EW06-V	**170**	4.0	ND(<1.6)	58	120	390	742
	03/08/2000	BE/EW06-W	**10.5**	14.1	ND(<0.200)	21.4	17.7	59	122
	06/24/2000	BE/EW06-X	**252**	94.5	ND(<2.00)	140	262	582	1,331
	09/24/2000	BE/EW06-Y	**464**	**1,230**	ND(<20.0)	**3,800**	**1,706**	**6,370**	13,570
	01/26/2001	BE/EW06-Z	**791**	**1,090**	ND(<10.0)	**995**	**1,462**	**4,610**	8,948
NR 140 ES*			5	700	60	343	480	620	NA
NR140 PAL*			0.5	140	12	68.6	96	124	NA

Notes: all concentrations reported in ug/L unless noted
PVOCs = Petroleum Volatile Organic Compounds
E= Estimated value
ND( ) = Not detected above limit of detection (detection limit)
-- = Parameter not analyzed for
NA = Not applicable, standard does not presently exist for this parameter
* = Groundwater Standards from s. NR 140, Wis. Adm. Code, December 1998

ES = NR 140 Enforcement Standard
PAL = NR 140 Preventive Action Limit
1,200 = Enforcement Standard Exceedence
57 = Preventive Action Limit Exceedence
TMB = Trimethlybenzenes

Cooper
ENVIRONMENTAL RESOURCES INC.

City of West Bend Engineering Dept.
1115 South Main Street
West Bend, WI.
53095

RE: WDNR Notification Requirement-Petroleum Contamination of City Roadway Fronting Berndt Service 648 North Main West Bend WI.

Sirs/Mdms

The WDNR GIS Registry program requires that a notification of petroleum contamination be provided to the City of West Bend. The WDNR GIS program requires that the agency/department responsible for the maintenance of affected right-of-ways be notified. The project site's location and legal description are shown on Figure 1.

Shallow groundwater, immediately East and adjacent to the Berndt Service Station, presently exhibits petroleum concentrations exceeding the State of Wisconsin's NR 140 groundwater quality standards. The aerial extent of the groundwater contaminant plume is limited in size. Figure 2 presents a graphic representation of the plumes current configuration.

The groundwater plume is stable and is not increasing in size. Groundwater petroleum concentrations, within the City's roadway, have historically shown a consistent reduction in size and magnitude. The residual low level petroleum concentrations will naturally attenuate in time. Petroleum contaminated soils were removed by the DOT's environmental contractor during the 1998 rehabilitation of the roadway. The undersigned can be contacted at 262-338-9697.

Sincerely,

KCooper 2/12/02

Kevin Cooper, Prof. Geol. #984
Cooper Environmental Res. Inc.

RECEIVED
FEB 13 2002
CITY OF WEST BEND
ENGINEERING DEPT.

5569 PETERS DRIVE • WEST BEND, WI 53095 • 262-338-9697 • FAX 262-338-9645

Environmental Solutions
For Business Industry and Government

DRAKE
ENVIRONMENTAL, INC.

Serve wholeheartedly, as if you were serving the Lord, not men. — Ephesians 6:7

September 26, 2005

West Bend Urban Redevelopment
P.O. Box 438
West Bend, WI 53095

RE: Notification of Potential Petroleum Groundwater Contamination on the former Clark Oil Station property, Tax Key # 29111191140207 in Milwaukee, Wisconsin — Drake Project No. J02131

To whom it may concern,

Drake Environmental, Inc. has conducted a site investigation of the 648 North Main Street property located in Milwaukee, Wisconsin (BRRTS# 03-67-000743) under the direction of the Wisconsin Department of Natural Resources (DNR). On behalf of the client, Drake has submitted a closure request to the DNR for the property and has subsequently received conditional closure for the site. One of the conditions for closure is notifying the present owner of the former Clark Oil property that groundwater contamination that appears to have originated on the property located at 648 North Main Street has migrated onto your property. The levels of petroleum contamination in the groundwater on the 648 North Main Street adjacent to your property are above state groundwater enforcement standards found in chapter NE 140, Wisconsin Administrative Code. However, this groundwater contaminant plume is stable or receding and will naturally degrade over time.

Since the source of the groundwater contamination is not on your property, neither you nor any subsequent owner of your property will be held responsible for investigation or cleanup of this groundwater contamination, as long as you and any subsequent owners comply with the requirements of section 293.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup if access is required.

The DNR will not review the 648 North Main Street final closure request for at least 30 days after the date of this letter. As an affected property owner, you have the right to contact the DNR to provide any technical information that you may have that indicates

530 South 11th Street • Milwaukee, WI 53204
Phone: (414) 384-1440 • 1 (800) 853-8440 • Fax: (414) 384-4344 • www.drake.cc

that closure should not be granted for this site. If you would like to submit any information to the DNR that is relevant to this closure request, you should contact Brenda Boyce, Waukesha Service Center, 141 NW Barstow Street, Room 180, Waukesha, Wisconsin 53188. Phone number 262-574-2100.

If this case is closed, all properties within the site boundaries where groundwater contamination exceeds chapter NR 140 groundwater enforcement standards will be listed on the DNR geographic information system (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of the properties in Wisconsin where groundwater contamination above chapter NR 140 enforcement standards was found at the time that the case was closed. This GIS Registry will be available to the general public on the DNR internet web site.

Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination.

If you have any questions or need additional information please contact us at (414) 384-1440.

Respectfully,

DRAKE ENVIRONMENTAL, INC.

Matthew R. Giovanelli, P.G., CHMM
Project Manager

D. J. Burns
Project Director

J02131 Adjacent Site Notification