DNR Notes in blue

GIS REGISTRY INFORMATION

SITE NAME:	Diethelm Property		
BRRTS #:	03-37-001168	**FID #** (if appropriate):	
COMMERCE # (if appropriate):	54426-9154-84		
CLOSURE DATE:	June 13, 2005		
STREET ADDRESS:	1284 Hwy 29		
CITY:	Edgar		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =** ~~513823~~ 513822			**Y =** ~~496896~~ 496901		
CONTAMINATED MEDIA:	Groundwater	X	Soil		Both	
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)	
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.**	X
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	
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	

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TDD #: (608) 264-8777
Fax #: (608) 267-1381
Jim Doyle, Governor
Mary P. Burke, Secretary

June 13, 2005

Mr. Bob Pearson
WisDOT
4802 Sheboygan Ave., Room 451
Madison, WI 53707-7965

RE: **Final Closure**

Commerce # 54426-9154-84 WDNR BRRTS # 03-37-001168
Diethelm Property, 1284 Hwy 29, Edgar

Dear Mr. Pearson:

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 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 (608) 266-0593.

Sincerely,

Brian F. Taylor
Hydrogeologist
Site Review Section

cc: Mr. Dave Senfelds, Earth Tech Inc
Case File

GROUNDWATER GIS REGISTRY PACKET

OLD GAS STATION (DIETHELM PROPERTY)
Commerce No. 54426-9154-84A
DNR BRRTS No. 03-37-001168

LIST OF DOCUMENTS

PARCEL INFORMATION - NR 726.05(2)(a)2
- **Most Recent Deed with Legal Description**
- **Certified Survey Map**
- **Parcel Identification Number and Geographic Positioning Data**

MAPS AND TABLES - NR 726.05(3)(a)4a-4f
- **Topographic Site Location Map (Figure 1)**
- **Site Maps (Figures 2 and 8)**
- **Groundwater Sample Analytical Results (Table 4)**
- **Isoconcentration Map (Figure 8 above)**
- **Table of Water Level Elevations (Table 3)**
- **Groundwater Table Elevation Map (Figure 6)**
- **Geologic Cross Section (Figure 4-10)**

NOTIFICATIONS - NR 726.05(3)(a)4h
- **Letter to Marathon County Clerk, copied to Town of Rietbrock Clerk**
- **Email to WisDOT**

Document Number

WARRANTY DEED

Wisconsin Department of Transportation
Exempt from fee: s.77.25(2r) Wis. Stats.
RE3004 1096

1131506
DIETHELM/DEPT TRANS
REGISTER'S OFFICE
MARATHON COUNTY, WI 04-21-1998 04:19 PM

Michael J. [illegible] REGISTER

THIS DEED, made by Ferdinand Diethelm and Shirley Diethelm, husband and wife, GRANTOR, conveys and warrants the property described below to the **State of Wisconsin, Department of Transportation,** GRANTEE, for the sum of Seventy-three thousand four hundred and 00/00 dollars ($73,400.00).

Any person named in this deed may make an appeal from the amount of compensation within six months after the date of recording of this deed as set forth in s.32.05(2a) Wisconsin Statutes. For the purpose of any such appeal, the amount of compensation stated on the deed shall be treated as the award, and the date the deed is recorded shall be treated as the date of taking and the date of evaluation.

Other persons having an interest of record in the property: Abbotsford State Bank

Legal Description This (is) homestead property:

This space is reserved for recording data

Return to

12.00 chg + return to RATC

Parcel Identification Number/Tax Key Number
37-070-4-2904-313-0989 & 37-070-4-2904-313-0998

Legal Description is attached.

FEE

#77.25 (2R)
EXEMPT

Ferdinand Diethelm
(Signature)

April 21, 1998
(Date)

Ferdinand Diethelm
(Print Name)

Shirley Diethelm
(Signature)

Shirley Diethelm
(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

State of Wisconsin)
) ss.
Marathon County)

On the above date, this instrument was acknowledged before me by the named person(s)

(Signature, Notary Public, State of Wisconsin)

David J. Kelissen
(Print or Type Name, Notary Public, State of Wisconsin)

May 7, 2000
(Date Commission Expires)

Project ID 1053-10-25 This instrument was drafted by the Wisconsin Department of Transportation Parcel No. 220

An easement for highway purposes, as long as so used, including the right to preserve, protect and remove any vegetation existing on said land, and the right to plant thereon and protect any vegetation that the highway authorities may deem desirable to prevent erosion of the soil or to beautify the highway, in and to the following described lands in Marathon County, State of Wisconsin, described as:

A parcel of land in Town 29 North, Range 4 East, Section 31, the South 1/2 of the Southwest fractional 1/4 thereof. Said parcel includes all land of the owner contained within the following traverse.

Beginning at the southwest corner of Section 31, T29N, R4E;
Thence N 02°05'11"E 1241.94 feet along the west line of Section 31;
Thence S 87°54'49"E 12.78 feet;
Thence S 88°54'44"E 12.94 feet;
Thence S 01°05'16"W 475.77 feet;
Thence S 88°54'44"E 68.90 feet;
Thence S 02°16'53"W 157.50 feet;
Thence S 02°47'01"W 185.93 feet;
Thence N 89°33'56"W 39.37 feet;
Thence S 06°36'56"E 158.58 feet;
Thence S 76°15'02"E 459.47 feet;
Thence S 75°22'50"E 358.59 feet;
Thence S 81°29'25"E 163.41 feet;
Thence S 82°18'32"E 981.13 feet;
Thence S 05°01'23"W 66.45 feet;
Thence N 84°58'37"W 1094.87 feet to the south quarter corner of Section 31;
Thence N 86°08'22"W 927.20 feet along the south line of Section 31 to the point of beginning.

Said parcel contains 0.75 acre.

The herein named consideration includes full compensation for any and all buildings, fixtures and appurtenances, and contents remaining upon surrender of occupancy, which are now or hereafter located partially or wholly within the lands herein described, and for the right of ingress and egress on the lands adjoining and underneath said buildings for the purpose of viewing, selling and removing said buildings, fixtures, appurtenances and contents. Said right of ingress and egress to expire upon completion of the project for which this instrument is given.

The foregoing compensation is made without consideration of the impact of pollutants, contaminants or hazardous substances on the fair market value of the subject property either before or after the assessment of damages. It is understood that the above named Grantor will be fully responsible for rendering the subject property free of all identifiable pollutants, contaminants and hazardous substances. The Department of Transportation reserves the right to take separate legal action against the Grantor and/or his heirs to recover damages, testing costs and remediation costs attributable to any residual hazardous substances found on or within the subject property after said acquisition.

6708 - 6709	S 86°07'51" E	9.533 m	(31.25')	

POINT	X	Y	H	E
6709	593 814.142	123 756.875	123 768.631	593 871.159
6710	593 813.958	123 797.930	123 739.683	593 870.576
6707	593 804.467	123 798.546	123 720.319	593 860.883
6708	593 805.253	123 757.515	123 769.273	593 861.667

COURSE	BEARING	DISTANCE
1076 - 4834	N 84°58'51" W	605.568 m (1986.57')
4834 - 6639	N 06°11'35" E	32.016 m (105.04')
6639 - 6640	S 85°28'32" E	30.005 m (98.46')
6640 - 4835	S 04°31'28" W	32.451 m (106.47')
4835 - 1070	S 84°58'51" E	555.531 m (1822.51')

POINT	X	Y	H	E
4834	594 221.643	123 531.561	123 543.298	594 276.096
6639	594 224.165	123 563.474	123 575.214	594 268.622
6640	594 214.309	123 555.630	123 571.269	594 308.470
4835	594 211.448	123 523.181	123 558.919	594 307.911

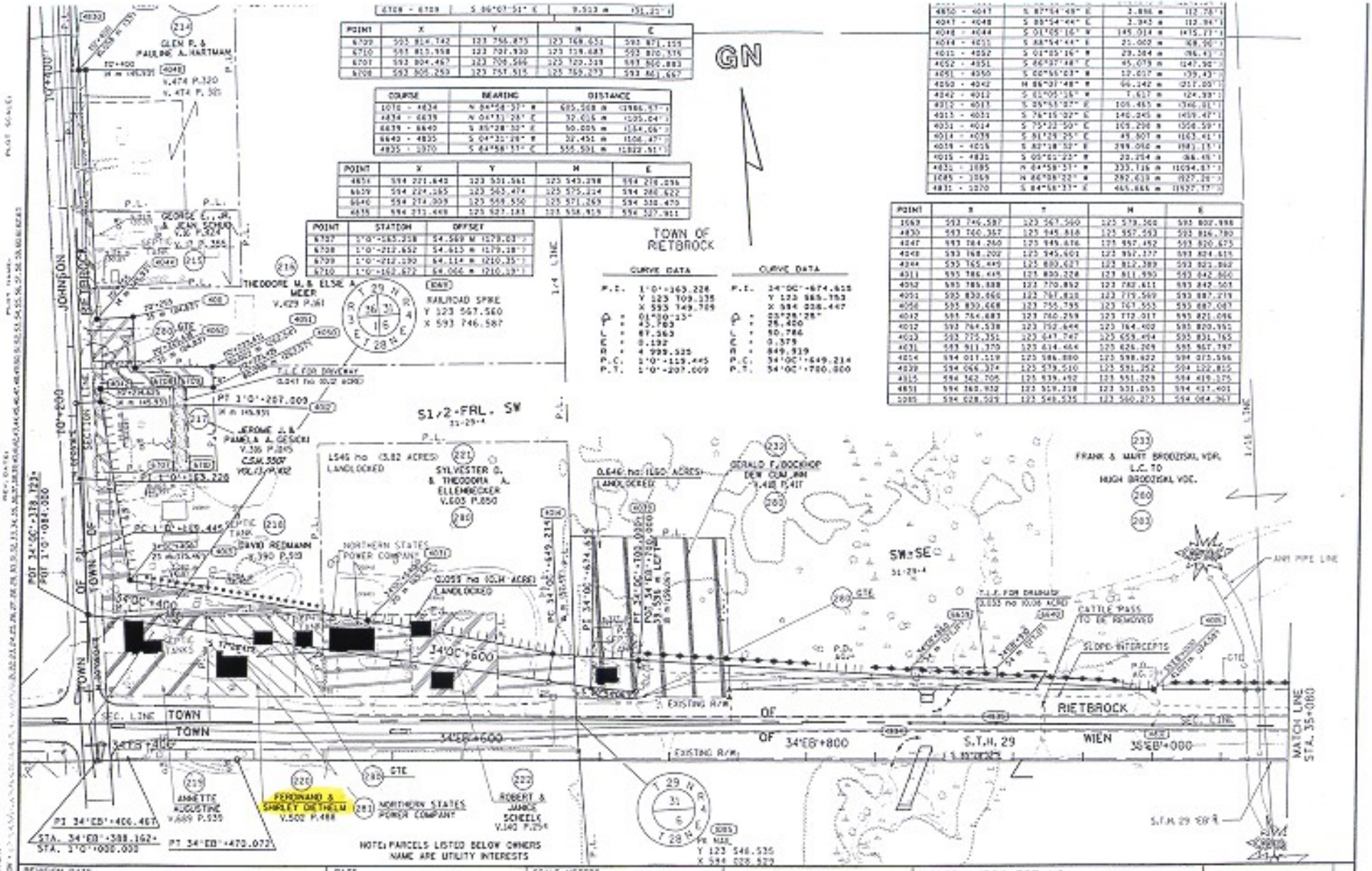
POINT	STATION	OFFSET
6707	1°0'-165.358	54.569 m (179.03')
6708	1°0'-212.652	54.615 m (179.18')
6709	1°0'-212.090	64.114 m (210.35')
6710	1°0'-163.672	64.066 m (210.19')

4850 - 4047	S 87°54'49" E	3.896 m	(12.78')	
4047 - 4048	S 88°54'44" E	3.343 m	(10.97')	
4048 - 4044	S 01°05'16" W	145.014 m	(475.77')	
4044 - 4051	S 88°54'44" E	25.002 m	(82.00')	
4051 - 4052	S 01°05'16" W	29.384 m	(96.43')	
4052 - 4051	S 88°37'48" E	45.079 m	(147.92')	
4051 - 4050	S 00°55'03" W	12.017 m	(39.43')	
4050 - 4042	N 88°37'48" W	96.142 m	(315.00')	
4042 - 4012	S 01°05'16" W	7.527 m	(24.69')	
4012 - 4013	S 25°53'27" E	105.453 m	(346.01')	
4013 - 4031	S 76°15'02" E	140.045 m	(459.47')	
4031 - 4014	S 75°22'50" E	105.238 m	(345.59')	
4014 - 4039	S 51°29'25" E	49.507 m	(162.41')	
4039 - 4015	S 82°18'52" E	299.040 m	(981.13')	
4015 - 4831	S 05°51'22" W	23.254 m	(76.35')	
4831 - 1085	N 84°58'51" W	333.116 m	(1092.87')	
1085 - 1069	N 86°38'22" W	282.613 m	(927.26')	
4831 - 1070	S 84°58'51" E	465.666 m	(1527.77')	

POINT	X	Y	H	E
1069	593 746.587	123 567.560	123 579.300	593 807.998
4830	593 700.357	123 545.816	123 557.553	593 816.780
4047	593 784.260	123 545.676	123 557.452	593 820.675
4048	593 788.202	123 545.601	123 557.377	593 824.615
4044	593 785.449	123 683.627	123 812.389	593 821.840
4051	593 786.449	123 800.224	123 811.990	593 842.860
4052	593 785.888	123 770.852	123 782.611	593 842.501
4050	593 830.050	123 767.832	123 779.569	593 887.219
4042	593 830.668	123 755.795	123 767.555	593 887.047
4012	593 764.883	123 760.259	123 772.017	593 821.096
4013	593 764.538	123 752.644	123 764.402	593 820.952
4031	593 775.351	123 641.747	123 653.494	593 831.765
4014	593 811.370	123 614.466	123 626.209	593 867.787
4039	594 017.119	123 586.880	123 598.622	594 073.556
4015	594 066.374	123 579.310	123 591.052	594 122.832
4831	594 362.705	123 539.492	123 551.229	594 419.175
1085	594 363.932	123 539.338	123 551.055	594 417.401
1069	594 628.589	123 548.535	123 560.275	594 084.967

TOWN OF RIETBROCK

CURVE DATA		CURVE DATA	
P.I.	1°0'+163.226	P.I.	34°0C'+674.615
	Y 123 509.335		Y 123 585.753
	X 593 749.789		X 594 228.447
Δ	01°00'25"	Δ	03°28'28"
T	43.783	T	28.420
L	87.563	L	50.786
E	0.192	E	0.379
R	4 999.325	R	849.939
P.C.	1°0'+119.445	P.C.	34°0C'+649.214
P.T.	1°0'+207.009	P.T.	34°0C'+700.000



REVISION DATE 2-27-98 3-24-98 9-0-00	DATE 6/03/96	SCALE, METERS 0 50 100	HWY: S.T.H. 29	FEDERAL PROJECT NO:
	GRID FACTOR 0.999905		COUNTY: MARATHON	STATE R/W PROJECT NO: 1053-10-25

SHEET NO: 4.25 M

PARCEL IDENTIFICATION AND GEOGRAPHIC POSITION DATA

OLD GAS STATION (DIETHELM PROPERTY)
Commerce No. 54426-9154-84A
DNR BRRTS No. 03-37-001168

Parcel Identification No.: 37-070-4-2904-313-0989 & 37-070-4-2904-313-0998

County: Marathon

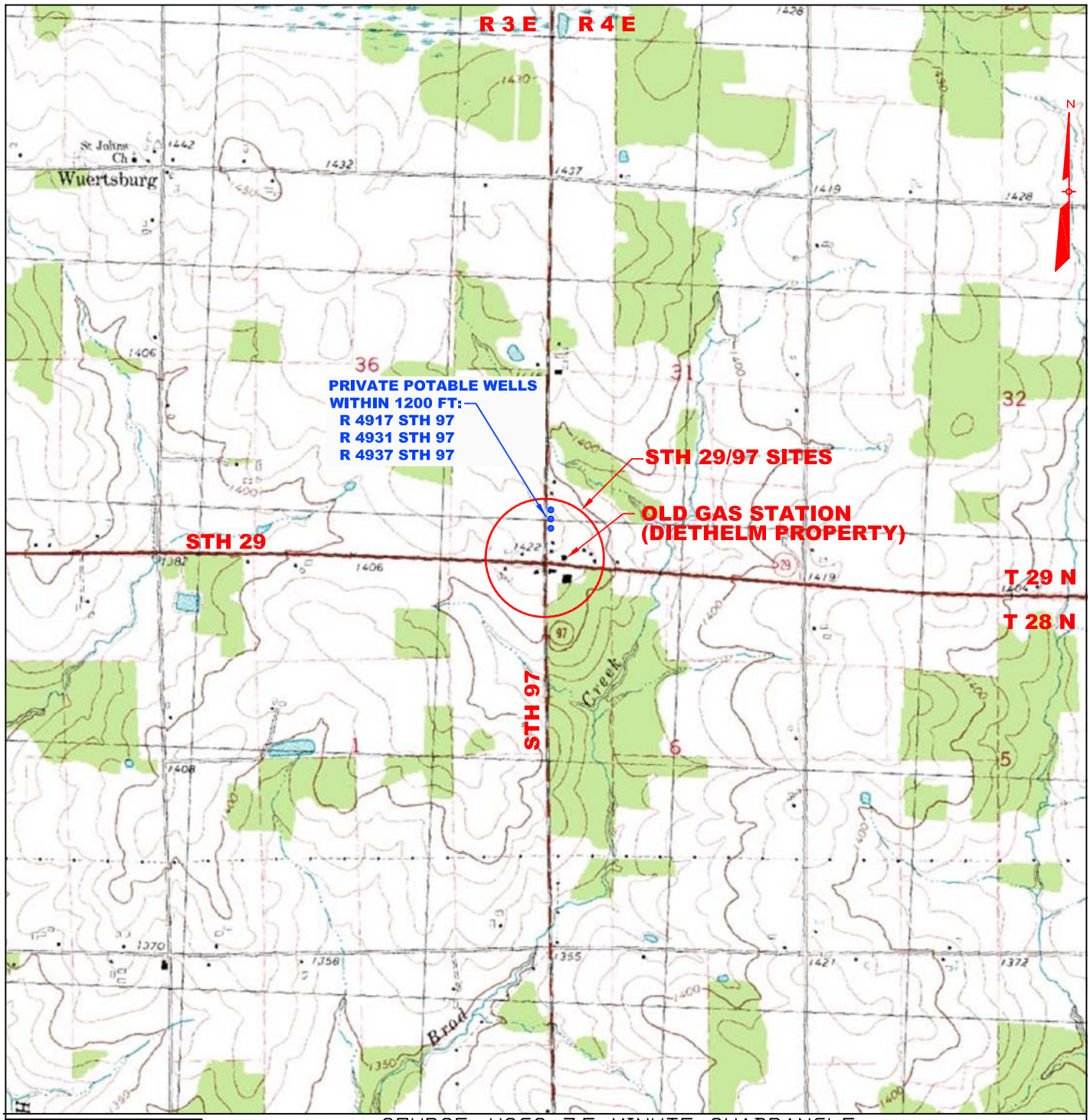
Wisconsin Transverse Mercator (WTM83/91) geo-referencing system coordinates were obtained using the interactive mapping services section of the DNR website.

WTM83/91 Coordinates: 513823, 496896
On-Screen Scale: 1” = 729’

Global Positioning System data was obtained by direct location method.

GPS Coordinates: N 44° 56’ 44.2” W 090° 04’ 42.5”

L:\work\Projects\31237\eng\Mary\oldgasgps.doc



SOURCE: USGS 7.5 MINUTE QUADRANGLE,
WIEN, WISCONSIN, 1982

MARATHON COUNTY

INDEX MAP

SCALE 1: 24000

1 1/2 0 1 MILE

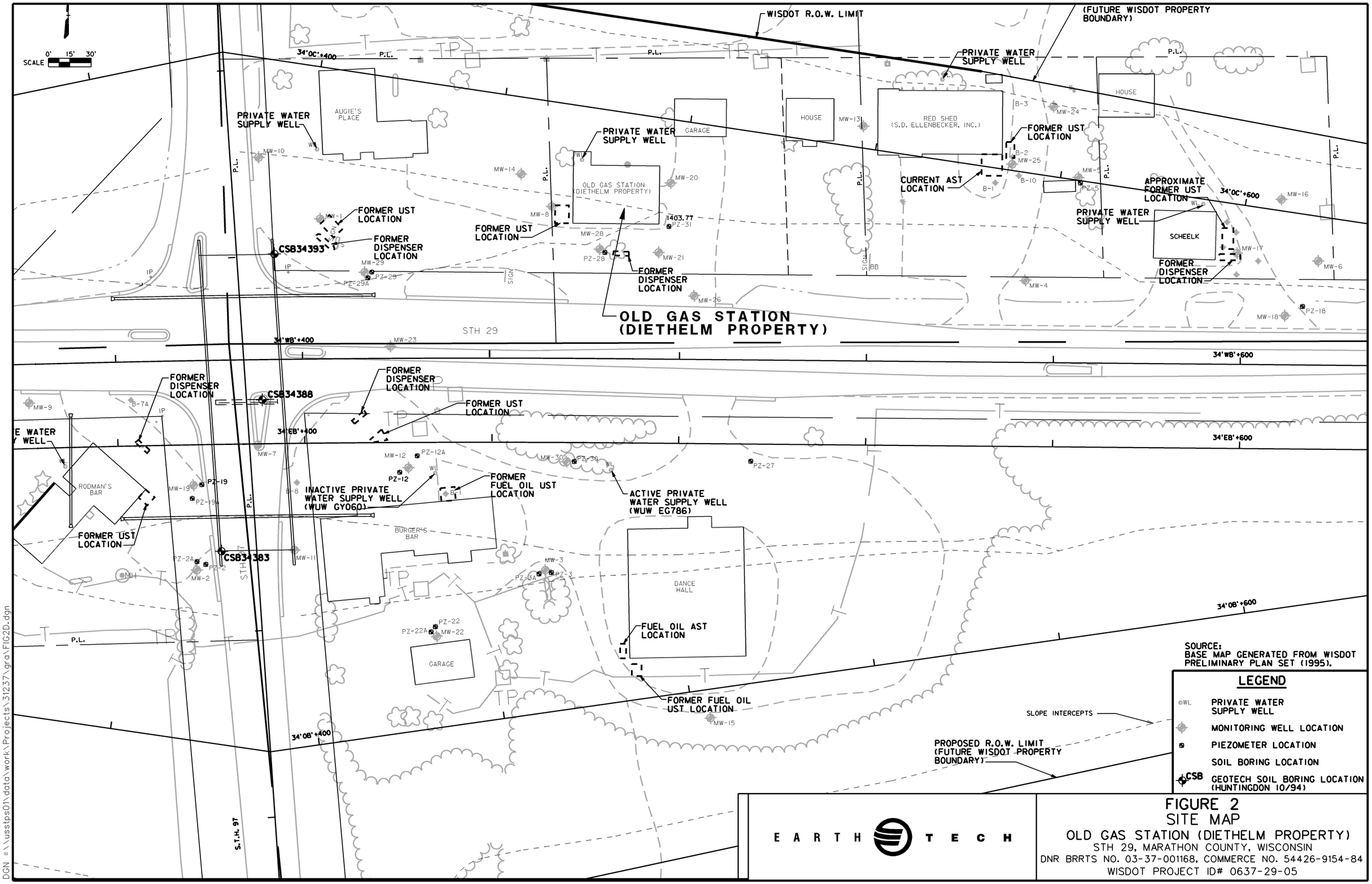
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

EARTH TECH

FIGURE 1
LOCATION MAP
OLD GAS STATION (DIETHELM PROPERTY)
STH 29, MARATHON COUNTY, WISCONSIN
DNR BRRTS NO. 03-37-001168, COMMERCE NO. 54426-9154-84
WISDOT PROJECT ID# 0637-29-05

PSLtscale: 1 Ltscale: 1
File: L:\work\Projects\31237\gra\WELLSFIG1B.dwg Time: Sep 10, 2004 - 10:11am



EARTH TECH

FIGURE 2
SITE MAP
OLD GAS STATION (DIETHELM PROPERTY)

STH 29, MARATHON COUNTY, WISCONSIN

DNR BRRTS NO. 03-37-001168, COMMERCE NO. 54426-9154-84

WISDOT PROJECT ID# 0637-29-05

User is joshua.dhein
PEN TABLE= \\usstps01\data\Plot\cadnet\ptables\200206b.tbl REFERENCE FILE 01 = \\usstps01\data\work\projects\31237\gra\PH2B\SS.DGN
Levels are 1-63 Levels = 2-63
PRF = \\usstps01\data\work\projects\31237\gra\FIG2D.prf REFERENCE FILE 02 = \\usstps01\data\work\projects\31237\gra\PH2B\E1117L.DGN
DATE=Fri Sep 10 10:03:24 2004 Levels = 1-63
DGN = \\usstps01\data\work\Projects\31237\gra\FIG2D.dgn

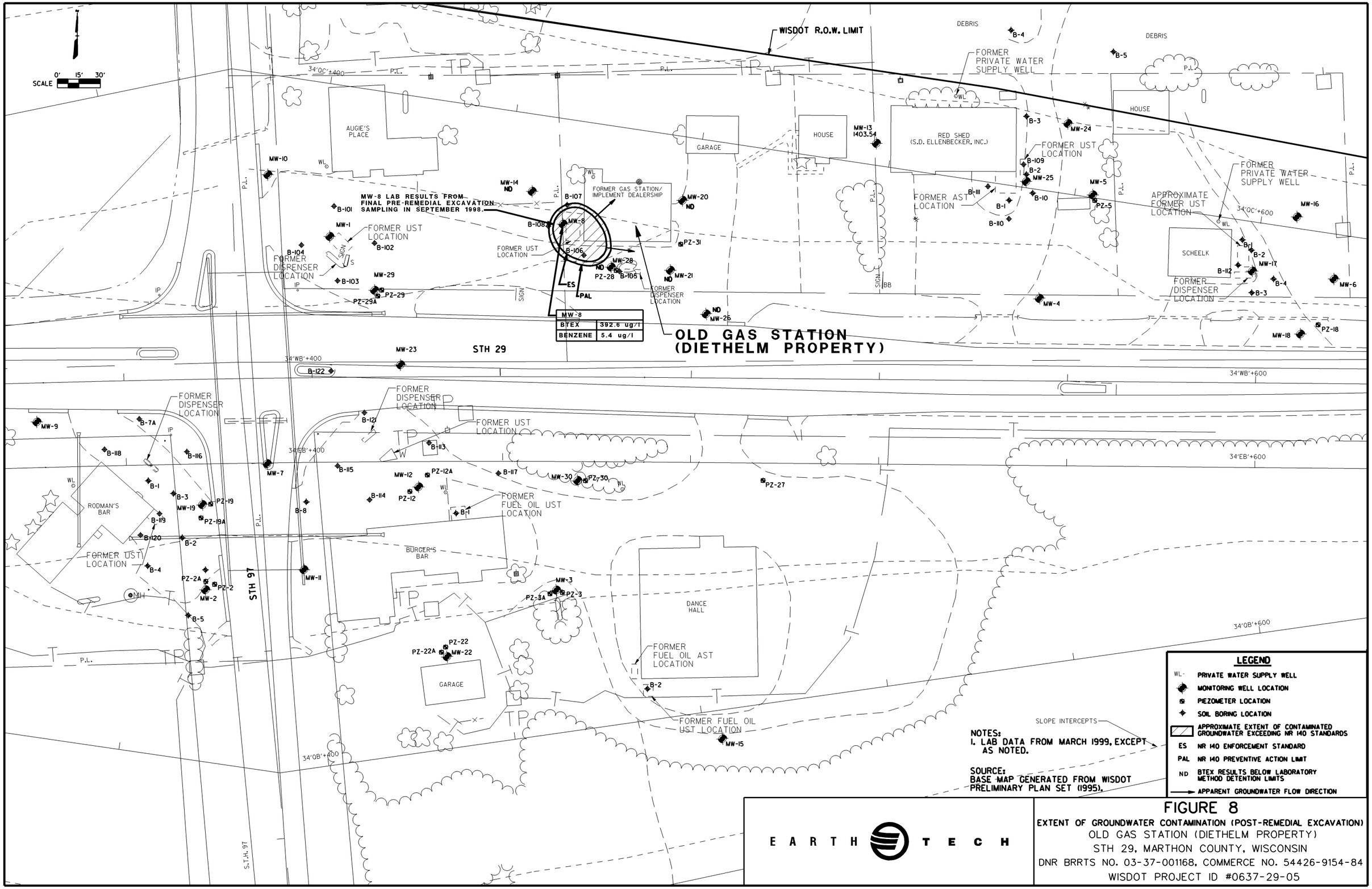


FIGURE 8

EXTENT OF GROUNDWATER CONTAMINATION (POST-REMEDIAL EXCAVATION)

OLD GAS STATION (DIETHELM PROPERTY)

STH 29, MARTHON COUNTY, WISCONSIN

DNR BRRTS NO. 03-37-001168, COMMERCE NO. 54426-9154-84

WISDOT PROJECT ID #0637-29-05

31237/GRA/PH2B/FIG8D.DGN

TABLE 4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
OLD GAS STATION (DIETHELM PROPERTY)
STH 29, MARATHON COUNTY, WISCONSIN
DNR BRRTS NO. 03-37-001168, COMMERCE NO. 54426-9154-84
WISDOT PROJECT I.D. 0637-29-05

Analyte	PAL	ES	MW-8						MW-14							
			12/22/95	12/31/96	09/02/97	12/10/97	04/06/98	09/01/98	02/08/96	12/30/96	08/29/97	12/10/97	04/03/98	09/01/98	01/19/99	03/30/99
GRO (ug/l)	NE	NE	4,500	6,200 (5,900)	4,700 (4,700)	--	--	--	<50	--	--	--	--	--	--	--
Dissolved Lead (ug/l)	1.5	15	<2.0	--	--	--	--	--	<2.0	--	--	--	--	--	--	--
VOCs (ug/l)																
Benzene	0.5	5	**11**	**11 (11)**	**9.8 (10)**	**6.4 (110)**	**4** [Q]	**5.4**	<0.6	<0.20	<0.41	<0.20	<0.20	<0.26	<0.26	<0.26
n-Butylbenzene	NE	NE	28	--	--	--	--	--	<1.0	--	--	--	--	--	--	--
sec-Butylbenzene	NE	NE	17	--	--	--	--	--	<1.0	--	--	--	--	--	--	--
Ethylbenzene	140	700	**250**	**250 (250)**	**250 (270)**	110 (120)	**190**	130	<1.0	<0.30	<0.23	<0.30	<0.30	<0.24	<0.24	<0.24
Isopropylbenzene	NE	NE	68	--	--	--	--	--	<1.0	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	NE	29	--	--	--	--	--	<1.0	--	--	--	--	--	--	--
Methylene Chloride	0.5	5	<2.0	--	--	--	--	--	<1.0	--	--	--	--	--	--	--
Methyl tert-butyl ether	12	60	<2.0	<1.0 (--)	<0.50 (<0.80)	<0.20 (<0.20)	<4.0	2.7	<1.0	<0.20	<0.53	<0.20	<0.20	<0.22	<0.22	<0.22
Naphthalene	8	40	**260**	**480 (480)**	**550 (620)**	**290 (300)**	**240**	**300**	<1.0	--	--	--	--	--	--	--
n-Propylbenzene	NE	NE	130	--	--	--	--	--	<1.0	--	--	--	--	--	--	--
Tetrachloroethene	0.5	5	<2.0	--	--	--	--	--	<1.0	--	--	--	--	--	--	--
Toluene	68.6	343	2	22 (21)	16 (16)	5.9 (140)	12 [Q]	10	<1.0	<0.40	<0.28	<0.20	<0.20	<0.21	<0.21	<0.21
Trimethylbenzenes	96	480	87	340 (340)	280 (320)	108 (120)	192	86	<2.0	<0.60	<0.55	<0.60	<0.60	<1.40	<1.40	<1.40
Xylenes	124	620	122.2	**384 (384)**	**317 (360)**	**181.8 (242)**	**242**	**247.2**	<2.0	<1.1	<0.79	<0.90	<0.90	<1.34	<1.34	<1.34

Notes:

1. -- means not analyzed.
2. NE means "Not Established."
3. ES means applicable "Enforcement Standard" as listed in Wisconsin Administrative Code, Chapter NR 140.
4. PAL means applicable "Preventative Action Limit" as listed in Wisconsin Administrative Code, Chapter NR 140.
5. Bold and bold outlining indicates exceedence of ES.
6. Bold indicates exceedence of PAL.
7. Value in parentheses is result from analysis of duplicate sample.
8. Groundwater samples were collected during staged investigative approach.
9. Methylene chloride detects considered suspect by laboratory.
10. [Q] Indicates estimated concentration below the laboratory quantitation limit.
11. * Indicates estimated value, compound exhibited high bias on calibration and quality control samples.

L:\work\Projects\31237\wp\reports\old gas\[table1_mmb.xls]Sheet1

TABLE 4 (cont.)
OLD GAS STATION (DIETHELM PROPERTY)

Analyte	PAL	ES	MW-20							MW-21						
			02/29/96	12/30/96	08/29/97	12/10/97	04/03/98	09/01/98	03/30/99	05/31/96	01/24/97	09/02/97	12/10/97	04/06/98	09/01/98	03/31/99
GRO (ug/l)	NE	NE	<50	--	--	--	--	--	--	<50	<50	<50	--	--	--	--
Dissolved Lead (ug/l)	1.5	15	<2.0	--	--	--	--	--	--	<2.0	--	--	--	--	--	--
VOCs (ug/l)																
Benzene	0.5	5	<0.6	<0.20	<0.41	<0.20	<0.20	<0.26	<0.26	<0.6	<0.40	<0.41	<0.20	<0.30	<0.26	<0.27
n-Butylbenzene	NE	NE	<1.0	--	--	--	--	--	--	<1.0	--	--	--	--	--	<0.29
sec-Butylbenzene	NE	NE	<1.0	--	--	--	--	--	--	<1.0	--	--	--	--	--	<0.29
Ethylbenzene	140	700	<1.0	<0.30	<0.23	<0.30	<0.30	<0.24	<0.24	<1.0	<0.20	<0.23	<0.30	<0.20	<0.24	<0.32
Isopropylbenzene	NE	NE	<1.0	--	--	--	--	--	--	<1.0	--	--	--	--	--	<0.26
p-Isopropyltoluene	NE	NE	<1.0	--	--	--	--	--	--	<1.0	--	--	--	--	--	<0.24
Methylene Chloride	0.5	5	<1.0	--	--	--	--	--	--	<1.0	--	--	--	--	--	<0.36
Methyl tert-butyl ether	12	60	<1.0	<0.20	<0.53	<0.20	<0.20	<0.22	<0.22	<1.0	<0.50	<0.53	<0.20	<0.20	<0.22	<0.32
Naphthalene	8	40	<1.0	--	--	--	--	--	--	<1.0	<0.70	--	<1.7	--	--	<0.35
n-Propylbenzene	NE	NE	<1.0	--	--	--	--	--	--	<1.0	--	--	--	--	--	<0.76
Tetrachloroethene	0.5	5	<1.0	--	--	--	--	--	--	**1.5**	**1.1**	<0.27	--	<0.60	--	<0.43
Toluene	68.6	343	1	<0.40	<0.28	<0.20	<0.20	<0.21	<0.21	1.3	<0.30	<0.28	<0.20	<0.20	<0.21	<0.27
Trimethylbenzenes	96	480	<2.0	<0.80 [Q]	<0.55	<0.60	<0.60	<1.40	<1.40	<2.0	<0.60	<0.55	<0.60	<0.90	<1.40	<0.49
Xylenes	124	620	<2.0	<1.1	<0.79	<0.90	<0.90	<1.34	<1.34	<2.0	<0.80	<0.79	<0.90	<0.80	<1.34	<0.67

Notes:

1. -- means not analyzed.
2. NE means "Not Established."
3. ES means applicable "Enforcement Standard" as listed in Wisconsin Administrative Code, Chapter NR 140.
4. PAL means applicable "Preventative Action Limit" as listed in Wisconsin Administrative Code, Chapter NR 140.
5. Bold and bold outlining indicates exceedence of ES.
6. Bold indicates exceedence of PAL.
7. Value in parentheses is result from analysis of duplicate sample.
8. Groundwater samples were collected during staged investigative approach.
9. Methylene chloride detects considered suspect by laboratory.
10. [Q] Indicates estimated concentration below the laboratory quantitation limit.
11. * Indicates estimated value, compound exhibited high bias on calibration and quality control samples.

L:\work\Projects\31237\wp\reports\old gas\[table1_mmb.xls]Sheet1

TABLE 4 (cont.)
OLD GAS STATION (DIETHELM PROPERTY)

Analyte	PAL	ES	MW-26						MW-28 (Shallow)						
			02/29/96	12/30/96	09/02/97	12/10/97	04/06/98	03/30/99	01/23/97	09/02/97	12/10/97	04/06/98	09/01/98	01/19/99	03/31/99
GRO (ug/l)	NE	NE	<50 (<50)	--	--	--	--	--	<50	<50	--	--	--	--	--
Dissolved Lead (ug/l)	1.5	15	<2.0 (<2.0)	--	--	--	--	--	<1.5	--	--	--	--	--	--
VOCs (ug/l)															
Benzene	0.5	5	<0.6 (<0.6)	<0.20	<0.41	--	--	<0.26	<0.40	<0.16	<0.20	<0.20	<0.26	<0.26	<0.26
n-Butylbenzene	NE	NE	<1.0 (<1.0)	--	--	--	--	--	<0.30	--	--	--	--	--	--
sec-Butylbenzene	NE	NE	<1.0 (<1.0)	--	--	--	--	--	<0.20	--	--	--	--	--	--
Ethylbenzene	140	700	<1.0 (<1.0)	<0.30	<0.23	--	--	<0.24	<0.20	<0.29	<0.30	<0.30	<0.24	<0.24	<0.24
Isopropylbenzene	NE	NE	<1.0 (<1.0)	--	--	--	--	--	<0.30	--	--	--	--	--	--
p-Isopropyltoluene	NE	NE	<1.0 (<1.0)	--	--	--	--	--	<0.20	--	--	--	--	--	--
Methylene Chloride	0.5	5	<1.0 (<1.0)	--	--	--	--	--	**0.6** [Q]	--	--	--	--	--	--
Methyl tert-butyl ether	12	60	<1.0 (<1.0)	<0.20	<0.53	--	--	<0.22	<0.50	<0.20	<0.20	<0.20	<0.22	<0.22	<0.22
Naphthalene	8	40	<1.0 (<1.0)	--	--	--	--	--	<0.70	<0.81	<1.7	--	--	--	--
n-Propylbenzene	NE	NE	<1.0 (<1.0)	--	--	--	--	--	<0.30	--	--	--	--	--	--
Tetrachloroethene	0.5	5	<1.0 (<1.0)	--	<0.27	--	--	--	<0.30	--	--	--	--	--	--
Toluene	68.6	343	<1.0 (<1.0)	<0.40	<0.28	--	--	<0.21	<0.30	<0.36	<0.20	<0.20	<0.21	<0.21	<0.21
Trimethylbenzenes	96	480	<2.0 (<2.0)	<0.60	<0.55	--	--	<1.40	<0.60	<0.64	<0.60	<0.60	<1.40	<1.40	<1.40
Xylenes	124	620	<2.0 (<2.0)	<1.1	<0.79	--	--	<1.34	<0.80	<1.15	<0.90	<0.90	<1.34	<1.34	<1.34

Notes:

1. -- means not analyzed.
2. NE means "Not Established."
3. ES means applicable "Enforcement Standard" as listed in Wisconsin Administrative Code, Chapter NR 140.
4. PAL means applicable "Preventative Action Limit" as listed in Wisconsin Administrative Code, Chapter NR 140.
5. Bold and bold outlining indicates exceedence of ES.
6. Bold indicates exceedence of PAL.
7. Value in parentheses is result from analysis of duplicate sample.
8. Groundwater samples were collected during staged investigative approach.
9. Methylene chloride detects considered suspect by laboratory.
10. [Q] Indicates estimated concentration below the laboratory quantitation limit.
11. * Indicates estimated value, compound exhibited high bias on calibration and quality control samples.

L:\work\Projects\31237\wp\reports\old gas\[table1_mmb.xls]Sheet1

TABLE 4 (cont.)
OLD GAS STATION (DIETHELM PROPERTY)

Analyte	PAL	ES	PZ-28 (Deep)						PZ-31				
			01/23/97	09/02/97	12/10/97	04/06/98	09/01/98	03/31/99	09/19/97	12/10/97	04/06/98	09/01/98	03/30/99
GRO (ug/l)	NE	NE	<50	--	--	--	--	--	<50	--	--	--	--
Dissolved Lead (ug/l)	1.5	15	<1.5	--	--	--	--	--	<1.6	--	--	--	--
VOCs (ug/l)													
Benzene	0.5	5	<0.40	<0.41	<0.20	<0.20	<0.26	<0.26	<0.41	<0.20	<0.20	<0.26	<0.26
n-Butylbenzene	NE	NE	<0.30	--	--	--	--	--	<0.31	--	--	--	--
sec-Butylbenzene	NE	NE	<0.20	--	--	--	--	--	<0.23	--	--	--	--
Ethylbenzene	140	700	<0.20	<0.23	<0.30	<0.30	<0.24	<0.24	<0.23	<0.30	<0.30	<0.24	<0.24
Isopropylbenzene	NE	NE	<0.30	--	--	--	--	--	<0.27	--	--	--	--
p-Isopropyltoluene	NE	NE	<0.20	--	--	--	--	--	<0.22	--	--	--	--
Methylene Chloride	0.5	5	<0.20	--	--	--	--	--	<0.22	--	--	--	--
Methyl tert-butyl ether	12	60	<0.50	<0.53	<0.20	<0.20	<0.22	<0.22	<0.53	<0.20	<0.20	<0.22	<0.22
Naphthalene	8	40	<0.70	--	--	--	--	--	<0.66	--	--	--	--
n-Propylbenzene	NE	NE	<0.30	--	--	--	--	--	<0.27	--	--	--	--
Tetrachloroethene	0.5	5	<0.30	--	--	--	--	--	<0.27	--	--	--	--
Toluene	68.6	343	<0.30	<0.28	<0.20	<0.20	<0.21	<0.21	<0.28	<0.20	<0.20	<0.21	<0.21
Trimethylbenzenes	96	480	<0.60	<0.55	<0.60	<0.60	<1.40	<1.40	<0.55	<0.60	<0.60	<1.40	<1.40
Xylenes	124	620	<0.80	<0.79	<0.90	<0.90	<1.34	<1.34	<0.79	<0.90	<0.90	<1.34	<1.34

Notes:

1. -- means not analyzed.
2. NE means "Not Established."
3. ES means applicable "Enforcement Standard" as listed in Wisconsin Administrative Code, Chapter NR 140.
4. PAL means applicable "Preventative Action Limit" as listed in Wisconsin Administrative Code, Chapter NR 140.
5. Bold and bold outlining indicates exceedence of ES.
6. Bold indicates exceedence of PAL.
7. Value in parentheses is result from analysis of duplicate sample.
8. Groundwater samples were collected during staged investigative approach.
9. Methylene chloride detects considered suspect by laboratory.
10. ^{Q} Indicates estimated concentration below the laboratory quantitation limit.
11. * Indicates estimated value, compound exhibited high bias on calibration and quality control samples.

L:\work\Projects\31237\wp\reports\old gas\[table1_mmb.xls]Sheet1

TABLE 3
MONITORING WELL CONSTRUCTION DATA AND GROUNDWATER ELEVATIONS
OLD GAS STATION (DIETHELM PROPERTY)
STH 29, MARATHON COUNTY, WISCONSIN
DNR BRRTS NO. 03-37-001168, COMMERCE NO. 54426-9154-84
WISDOT PROJECT I.D. 0637-29-05

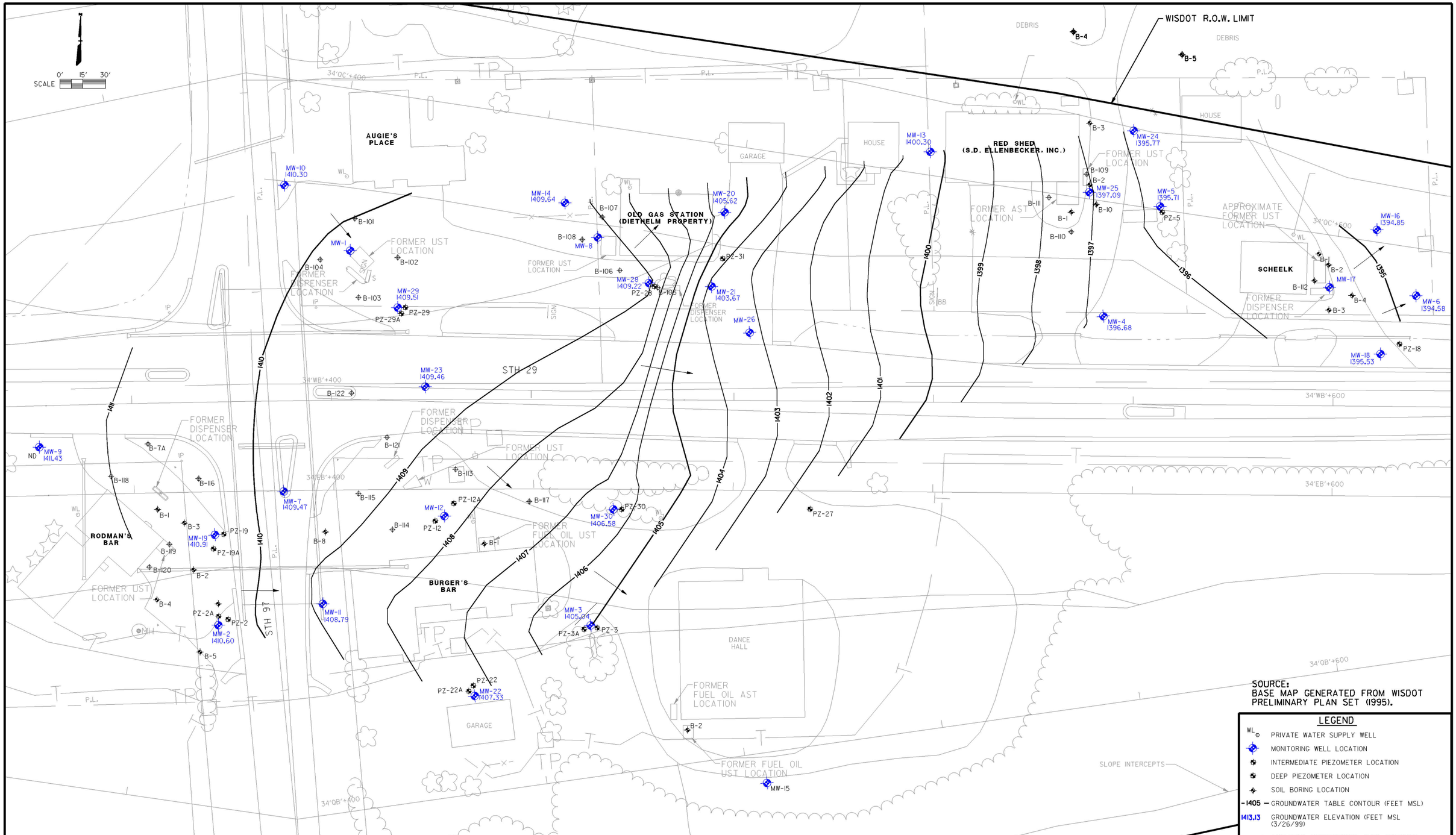
Monitoring Well	Date Installed	Date Abandoned	Well Depth (feet)	Well Development Results	Date Measured	Depth to Groundwater (feet)	Elevations	
							Top of PVC Casing (feet msl)	Groundwater (feet msl)
MW-8 *	12/20/95	11/04/98	18.0	purged dry	12/20/95	8.84	1,418.48	1,409.64
					01/04/96	8.57		1,409.91
					01/25/96	8.79		1,409.69
					05/17/96	6.81		1,411.67
					12/31/96	7.81		1,410.67
					07/23/97	5.15		1,413.33
					09/02/97	5.78		1,412.70
					12/10/97	6.26		1,412.22
					04/02/98	6.98		1,411.50
					08/27/98	6.85		1,411.63
					12/30/98	Abandoned		NA
MW-14	01/16/96	04/08/99	16.0	slow recovery	01/18/96	12.87	1,422.79	1,409.92
					01/25/96	12.91		1,409.88
					02/26/96	13.33		1,409.46
					05/17/96	8.77		1,414.02
					12/30/96	11.99		1,410.80
					07/23/97	9.01		1,413.78
					08/29/97	9.58		1,413.21
					12/10/97	11.05		1,411.74
					04/02/98	10.45		1,412.34
					08/27/98	11.21		1,411.58
					12/30/98	13.50		1,409.29
					03/26/99	13.15		1,409.64
MW-20 *	02/09/96	04/08/99	16.0	slow recovery	02/26/96	14.24	1,418.23	1,403.99
					02/28/96	14.14		1,404.09
					02/26/96	14.24		1,403.99
					05/17/96	9.57		1,408.66
					12/30/96	12.55		1,405.68
					07/23/97	6.65		1,411.58
					08/29/97	7.14		1,411.09
					12/10/97	11.58		1,406.65
					04/02/98	9.13		1,409.10
					08/27/98	10.02		1,408.21
					12/30/98	13.89		1,404.34
					03/26/99	12.61		1,405.62
MW-21 *	02/09/96	04/08/99	16.0	purged dry	05/17/96	10.30	1,417.58	1,407.28
					05/30/96	10.23		1,407.35
					01/24/97	13.17		1,404.41
					07/23/97	8.93		1,408.65
					09/02/97	9.66		1,407.92
					12/10/97	12.66		1,404.92
					04/02/98	11.46		1,406.12
					08/27/98	11.52		1,406.06
					12/30/98	14.38		1,403.20
					03/26/99	13.91		1,403.67
MW-26 *	02/28/96	04/08/99	29.5	slow recovery	02/28/96	16.08	1,417.34	1,401.26
					05/17/96	14.40		1,402.94
					12/30/96	16.08		1,401.26
					09/02/97	15.10		1,402.24
					04/02/98	14.25		1,403.09
					08/27/98	Well not found		NA
					12/30/98	Well damaged		NA
					03/26/99	Abandoned		NA
MW-28 *	12/19/96	04/08/99	15.5	slow recovery	01/14/97	8.12	1,418.38	1,410.26
					01/23/97	8.00		1,410.38
					07/23/97	4.72		1,413.66
					09/02/97	5.52		1,412.86
					12/10/97	7.02		1,411.36
					04/02/98	5.38		1,413.00
					08/27/98	6.98		1,411.40
					12/30/98	9.46		1,408.92
					03/26/99	9.16		1,409.22

TABLE 3 (cont.) OLD GAS STATION (DIETHELM PROPERTY)								
Monitoring Well	Date Installed		Well Depth (feet)	Well Development Results	Date Measured	Depth to Groundwater (feet)	Elevations	
							Top of PVC Casing (feet msl)	Groundwater (feet msl)
PZ-28 *	12/06/96	04/08/99	57.0	rapid recovery	01/14/97	16.19	1,417.92	1,401.73
					01/23/97	16.14		1,401.78
					07/23/97	15.59		1,402.33
					09/02/97	14.79		1,403.13
					12/10/97	17.83		1,400.09
					04/02/98	15.42		1,402.50
					08/27/98	16.11		1,401.81
					12/30/98	17.38		1,400.54
					03/26/99	14.95		1,402.97
PZ-31 *	08/19/97	04/08/99	55.0	rapid recovery	08/21/97	14.76	1,417.49	1,402.73
					09/19/97	14.50		1,402.99
					12/10/97	15.50		1,401.99
					04/02/98	15.50		1,401.99
					08/27/98	15.80		1,401.69
					12/30/98	17.07		1,400.42
					03/26/99	14.55		1,402.94

Notes:

1. * Flush mount protective well cover. All others were aboveground "pro top" protective well covers.
2. Initial water level measurement for each well was generally acquired prior to well development.
3. NA indicates depth to groundwater unavailable due to well conditions described in table.
4. MW indicates water table monitoring well with 10 foot screened interval.
5. PZ indicates piezometer well with 5 foot screened interval.
6. All monitoring well and piezometer elevations at the STH 29/97 Sites were surveyed by Rust Environment & Infrastructure (presently Earth Tech) on January 5 and 26, 1996, and October 14, 1997. All elevations were referenced to WisDOT Benchmark No. 138, which was identified by a chiseled square on the southwest wing wall of a former concrete box culvert (WisDOT Structure B-37-51-56) located at WisDOT Station 34'EB'+866. The elevation of the benchmark was 1,381.54 feet above MSL.

L:\work\Projects\31237\wp\reports\old gas\[table4_mmb.xls]mw-8 - mw-14

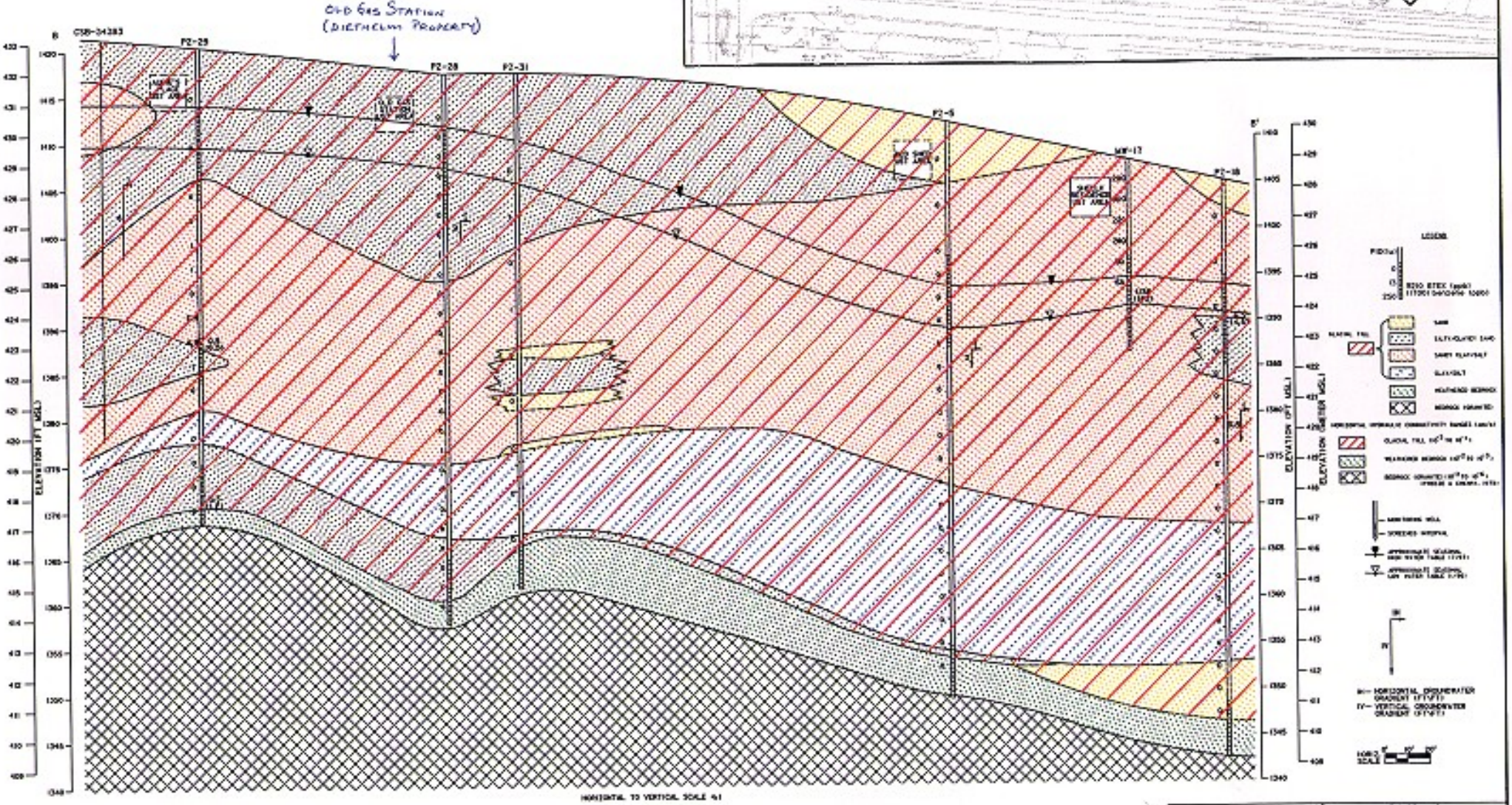


EARTH TECH

FIGURE 6
GROUNDWATER TABLE ELEVATION MAP
WATER TABLE OBSERVATION WELLS-MARCH 26, 1999
STH 29 & STH 97 SITES
MARATHON COUNTY, WISCONSIN

NOTES:

1. ALL ELEVATIONS REFERENCED TO WISDOT BENCHMARK NO. 138, WHICH IS IDENTIFIED ON WISDOT PRELIMINARY PLAN SET (1998) AS CHISLED SQUARE ON SOUTHWEST WING WALL OF CONCRETE BOX CULVERT B-31-01-06 LOCATED AT WISDOT STATION 34°28'+00S.
2. SURVEYS PERFORMED BY RUST ON 1/1/98, 1/25/98, 2/26/98, 10/14/97.
3. LAB DATA AUGUST\SEPTEMBER 1997.
4. SOIL DESCRIPTIONS BASED ON UNITED SOIL CLASSIFICATION SYSTEM (USCS).



RUST ENVIRONMENT & INFRASTRUCTURE

FIGURE 4-10
HYDROSTRATIGRAPHIC CROSS SECTION B-B'
STH 29 & STH 97 SITES
MARATHON COUNTY, WISCONSIN

Responsible Party Statement Regarding Legal Description

The Wisconsin Department of Transportation (WisDOT) believes that the following legal documents identify the properties containing residual petroleum impacts associated with leaking underground storage tank sites at the northeast corner of the intersection of STH 29 and STH 97.

Old Gas Station (Diethelm Property), R1284 STH 29, Edgar, WI 54426
Commerce No. 54426-9154-84 and BRRTS No. 03-37-001168

- Warranty Deed, Document No. 1131506, April 21, 1998

Red Shed (S.D. Ellenbecker, Inc.), R1254 STH 29, Edgar, WI 54426
Commerce No. 54426-9154-54 and BRRTS No. 03-37-001260

- Highway Easement, Document No. 1137135, June 9, 1998

Scheelk Residence, R1228 STH 29, Edgar, WI 54426
Commerce No. 54426-9712-28 and BRRTS No. 03-37-000472

- Highway Easement, Document No. 1133039, May 4, 1998

The Old Gas Station (Diethelm Property) site was conveyed to WisDOT under warranty deed. The Highway Easements for the Red Shed (S.D. Ellenbecker) and Scheelk Residence sites will be converted to Fee Simple Interests with ownership maintained by WisDOT for highway purposes upon receiving closure from the Wisconsin Department of Natural Resources or the Wisconsin Department of Commerce.

Wisconsin Department of Transportation
PECFA Agent for Responsible Party

Robert E. Pearson, Hydrogeologist
Printed Name and Title

Robert E. Pearson
Signature

6/10/05
Date

Post-it® Fax Note 7671	Date 6/10/05 # of pages ▶ 1
To DAVE SENFELDS	From BOB PEARSON
Co./Dept. EARTH TECH	Co. WIS DOT
Phone #	Phone # 608-266-7980
Fax # 715-341-7390	Fax # 608-266-7818

200 Indiana Avenue, Stevens Point, Wisconsin 54481

August 10, 2004

Nan Kottke, County Clerk
Marathon County
500 Forest Street
Wausau, WI 54403

Subject: **Notification of Petroleum Hydrocarbon Contamination within WisDOT Right of Way at the Old Gas Station (Diethelm Property)**
R1254 STH 29, Edgar, Marathon County, Wisconsin
WisDOT Project ID. 0637-29-05
DNR BRRTS No. 03-37-001168
Commerce No. 54426-9154-84
Earth Tech Project No. 31237

Telephone
715.341.8110
Facsimile
715.341.7390

Dear Ms. Kottke:

On behalf of the property owner, the Wisconsin Department of Transportation (WisDOT), and as a condition of the regulatory case closure requirement established by NR 726.05(2)(a)4, Wisconsin Administrative Code, Earth Tech, Inc., is notifying Marathon County that there is the potential for residual petroleum hydrocarbon contaminated groundwater within WisDOT right of way at the above-referenced site.

The limits of groundwater contamination exceeding regulatory standards are located entirely within WisDOT right of way. The impacted area is generally located between the westbound lanes of STH 29 and the westbound exit ramp onto STH 97. There is no known presence of free product at the site. Figures showing the approximate extent of contaminated groundwater are enclosed.

Please call me at (715) 342-3039 if you have any questions.

Very truly yours,

Earth Tech, Inc.

David S. Senfelds, P.E., CHMM
Project Manager

Enclosures: As Noted

c/enc: Annette Gajewski, Clerk, Town of Rietbrock, R5383 Pioneer Road, Athens, WI 54411
Dee Zoellner, Commerce, Stevens Point
Robert Pearson, WisDOT-BEES

L:\work\Projects\31237\wp\corresp\kottke081004c_mmb.doc

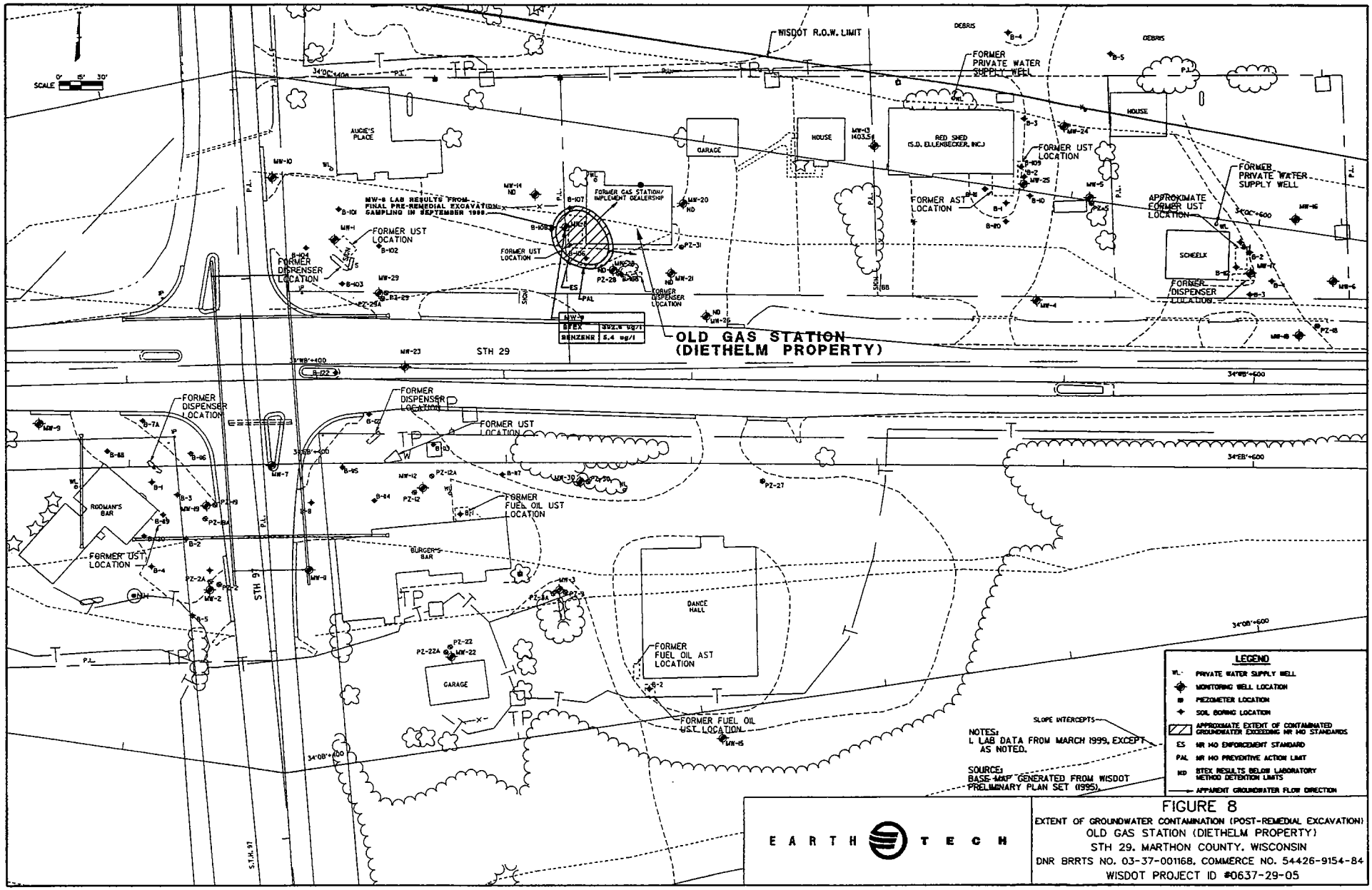


FIGURE 8
EXTENT OF GROUNDWATER CONTAMINATION (POST-REMEDIAL EXCAVATION)
OLD GAS STATION (DIETHELM PROPERTY)
STH 29, MARTHON COUNTY, WISCONSIN
DNR BRRTS NO. 03-37-001168, COMMERCE NO. 54426-9154-84
WISDOT PROJECT ID #0637-29-05

31237/GRA/PH2B/FIG8D.DGN

Buettner, Mary

From: TeBeest, Sharlene [sharlene.tebeest@dot.state.wi.us]
Sent: Tuesday, August 10, 2004 11:35 AM
To: 'Buettner, Mary'; TeBeest, Sharlene
Cc: Senfelds, David
Subject: RE: Notification of Contamination with Right of Way

This confirms that WisDOT has received notificaiton of contamination for the site mentioned below.

Shar Te Beest
Hazardous Materials Specialist /District 1 Liaison
Wisconsin Department of Transportation
Bureau of Equity and Environmental Services
Phone (608) 266-1476; Fax (608) 266-7818;
Cell (608) 692-4546
e-mail: sharlene.tebeest@dot.state.wi.us
<mailto:sharlene.tebeest@dot.state.wi.us>

-----Original Message-----
From: Buettner, Mary [mailto:Mary.Buettner@earthtech.com]
Sent: Tuesday, August 10, 2004 10:49 AM
To: 'sharlene.tebeest@dot.state.wi.us'
Cc: Senfelds, David
Subject: Notification of Contamination with Right of Way

County: Marathon
Highway: STH 29
Site Name: Old Gas Station (Diethelm Property)
Site Address: R1284 STH 29, Edgar, WI
BRRTS No.: 03-37-001168
PECFA No.: 54426-9154-84
FID No.:

Owners Name: WisDOT
Owners Address: 4802 Sheboygan Avenue, Room 451, PO Box 7965, Madison, WI 53707

Consulting Firm: Earth Tech, Inc.
Consulting Contact: David Senfelds
Consulting Address: 200 Indiana Avenue, Stevens Point, WI 54481
Consulting Phone: 715-342-3039
Consulting Fax: 715-341-7390
Consulting email: david.senfelds@earthtech.com

Soil Contamination? No
Depth to contaminated soil:
Vertical extent of contaminated soil:
Groundwater Contamination? Yes
Depth to water table: 5 feet below ground surface

Types of Contamination: Groundwater in the immediate source area is impacted by benzene and napthalene above the ES and xylenes above the PAL. The former source area is located between the westbound lanes and the westbound exit ramp. A plume map is attached.

The remedial action included: Excavation of petroleum contaminated soils within the proposed WisDOT construction limits, treatment and disposal of petroleum contaminated soils at a commercial landfill/biopile site, use of natural attenuation to stabilize or shrink the contaminant plume, and long

term groundwater monitoring to assess the effectiveness of natural attenuation. Approximately 77 tons of petroleum contaminated soil were removed from the former UST and dispenser area at the site.

<<oldgasplumemap.pdf>>

Mary M. Buettner
Earth Tech, Inc.
200 Indiana Avenue
Stevens Point, WI 54481
Ph: 715-342-3034
Fx: 715-341-7390

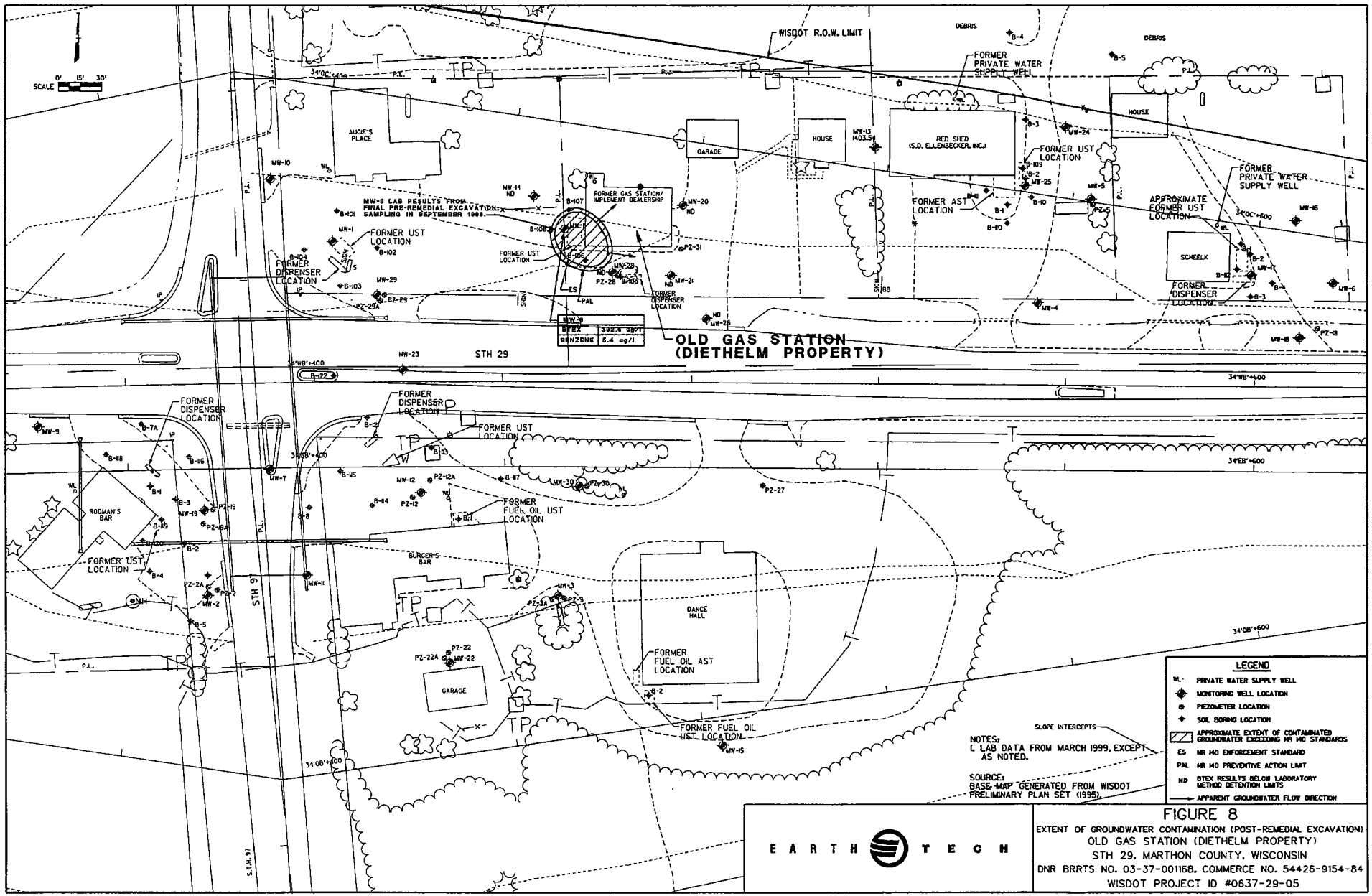


FIGURE 8
EXTENT OF GROUNDWATER CONTAMINATION (POST-REMEDIAL EXCAVATION)
OLD GAS STATION (DIETHELM PROPERTY)
STH 29, MARTHON COUNTY, WISCONSIN
DNR BRRTS NO. 03-37-001168, COMMERCE NO. 54426-9154-84
WISDOT PROJECT ID #0637-29-05

31237/GRA/PH2B/FIGBD.DGN