

The following site is being submitted for inclusion into the GIS registry:

This is a:	New Submittal
BRRTS ID (no dashes):	0336168408
Comm # (no dashes):	54220239805 B
County:	Manitowoc
Region:	Commerce
Site name:	Manitowoc County Hwy Dept
Street Address:	1105 Fleetwood Dr
City:	Manitowoc
Closure Date	2000-09-05
Closure Conditions:	met
Offsite contamination?	No
Right-of-way contamination?	No
Contaminated media:	Groundwater
GPS Coordinates (meters in the WTM91 projection)	
Easting (X):	705817.429732195
Northing (Y):	406601.515187712
Submitted by:	Cheryl Nelson

Checklist

- Final Closure Letter
- Copy of recorded deed Instrument for any property with GW >NR140 ES
- General Location Map
- Detailed Location Map showing property boundaries, buildings, etc for properties with GW >NR140 ES
- Latest Map(s) showing extent or outline of current GW plume
- GW flow direction
- MW(s) and/or potable wells
- Latest Table of GW results

September 5, 2000

Manitowoc County Highway Department
Attn: Gary Kennedy
1105 Fleetwood Drive
Manitowoc, WI 54220

RE: **CASE CLOSURE Approved**
COMMERCE #54220-2398-05B
Manitowoc County Highway Department, 1105 Fleetwood Drive, Manitowoc, WI

Dear Mr. Kennedy:

The Department is in receipt of documentation that the conditions necessary for site closure detailed in the *CASE CLOSURE CONDITIONAL UPON RECEIPT OF DOCUMENTATION* letter dated May 18, 2000 have been met. The Department considers that no further action is necessary and has updated our database to reflect this closure.

Thank you for your efforts in restoring Wisconsin's environment. If you have any additional questions, please call the number listed below.

Sincerely,



Robert H. Klauk
Hydrogeologist
Site Review Section
Bureau of PECFA
Phone 920-424-0046

cc. Robert C. Herubin – NRP Environmental Consultants Inc.

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 24 day of MAY, 2000.

[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 MANITOWOC COUNTY.

Signature: Gary L. Kennedy

Printed Name: GARY L. KENNEDY

Title: HIGHWAY COMMISSIONER

Subscribed and sworn to before me
this 24 day of MAY, 2000.

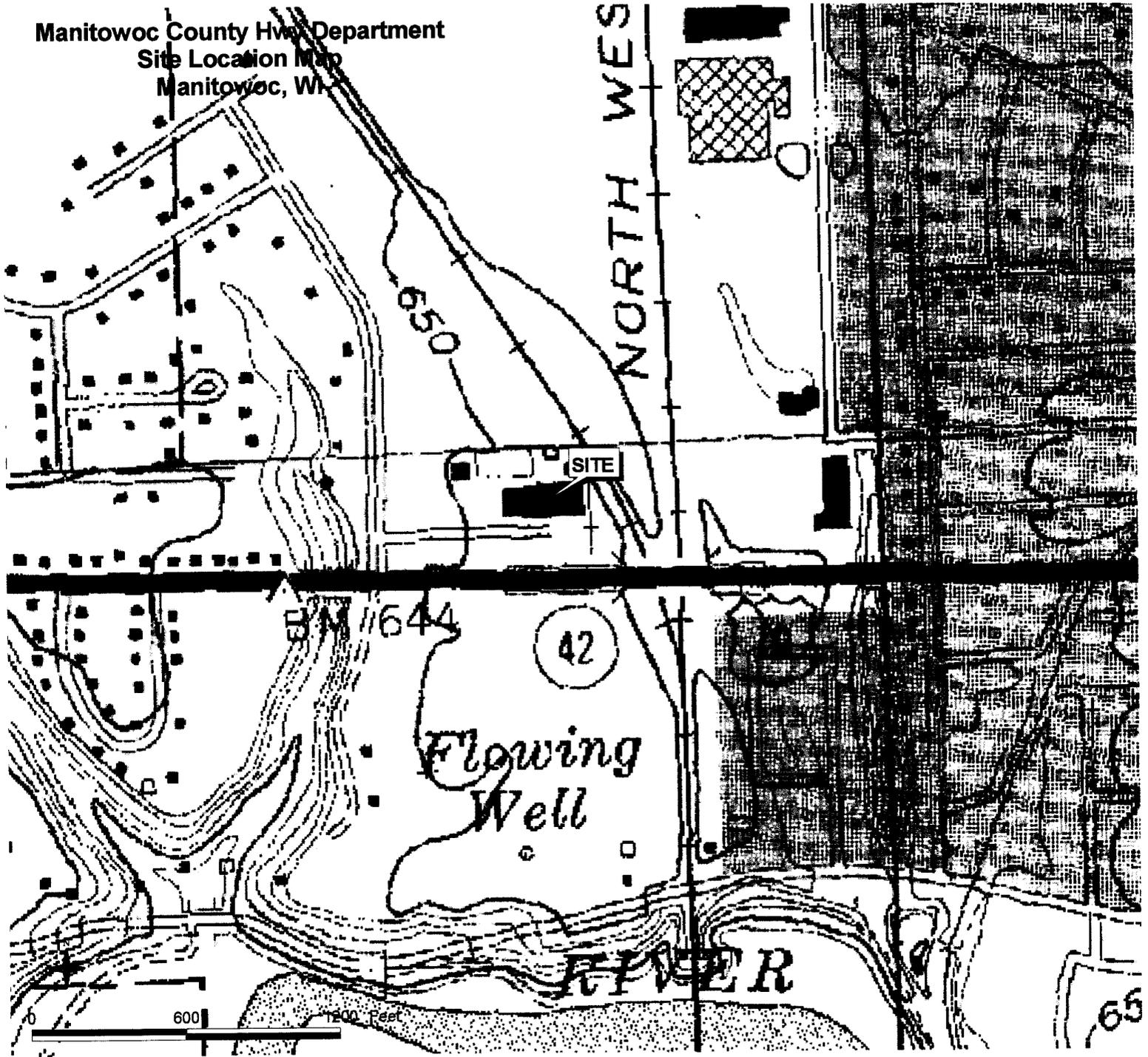
Jean M. Hansen
Notary Public, State of WISCONSIN
My commission EXPIRES 8-3-03

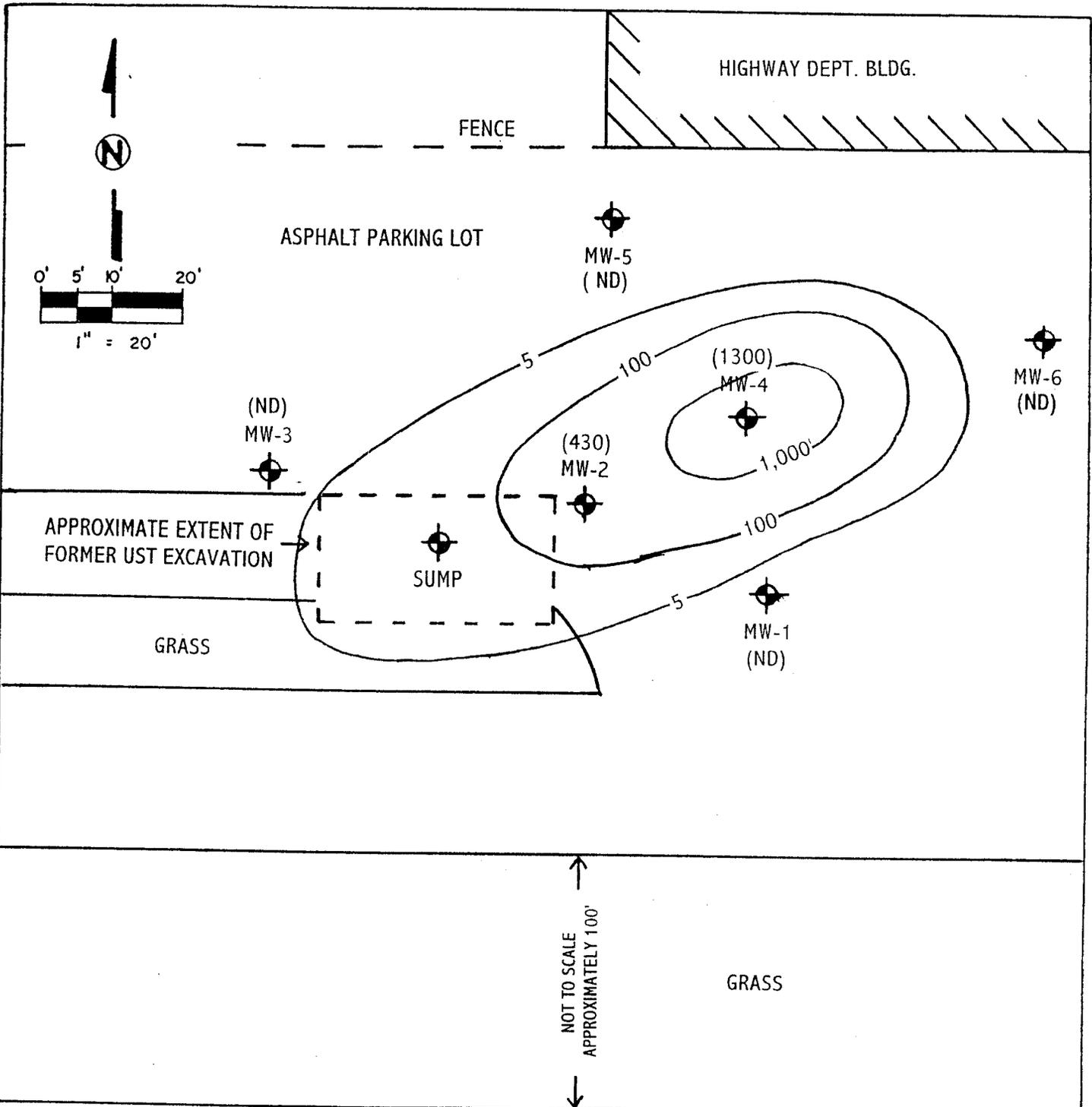
This document was drafted by the Wisconsin Department of Commerce.



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Manitowoc County Hwy Department
Site Location Map
Manitowoc, WI





LEGEND

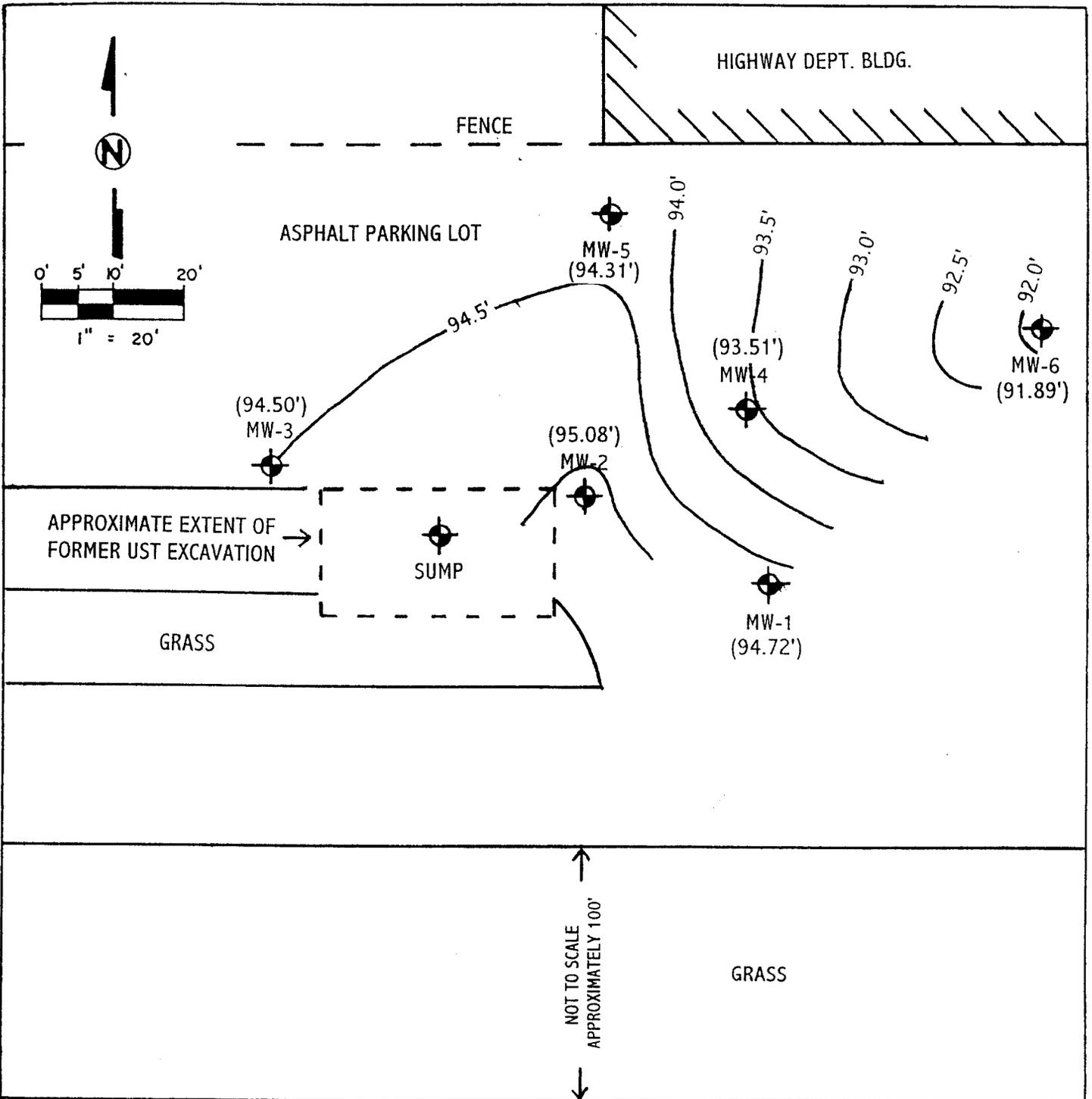
- MW-1  SOIL BORING/MONITORING WELL
- (430) BENZENE CONCENTRATION
- 100 — BENZENE ISOCONCENTRATION LINE

WALDO BLVD

NRP ENVIRONMENTAL CONSULTANTS, INC.

PROJECT: MANITOWOC COUNTY HIGHWAY DEPT. - UST SITE
 1105 FLEETWOOD DRIVE, MANITOWOC, WI 54220

FIGURE: FIGURE 9 - EXTENT OF BENZENE IN GROUNDWATER



LEGEND

MW-1 SOIL BORING/MONITORING WELL

(95.12') GROUNDWATER ELEVATION

— 94.9' — GROUNDWATER CONTOUR LINE

WALDO BLVD

DATA OBTAINED 02/26/98
0.5' CONTOUR INTERVAL

<p>NRP ENVIRONMENTAL CONSULTANTS, INC.</p>	<p>PROJECT: MANITOWOC COUNTY HIGHWAY DEPT. - UST SITE 1105 FLEETWOOD DRIVE, MANITOWOC, WI 54220</p>
	<p>FIGURE: FIGURE 8 - GROUNDWATER CONTOUR MAP (02/26/99)</p>

TABLE III

SUMMARY OF GROUNDWATER ANALYSIS RESULTS

All Results In Parts Per Billion (ug/l)

(Wells Sampled 02/26/99)

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>MW-6</u>	<u>SUMP</u>	<u>PAL*</u>	<u>ES*</u>
Benzene	<0.26	430	<0.26	1300	<0.26	<0.26	5.8	0.5	5
Ethylbenzene	<0.24	450	<0.24	130	<0.24	<0.24	2.3	272	1370
MTBE	<0.22	6.8	0.44	<2.2	<0.22	<0.22	0.32	12	60
Toluene	<0.21	79	<0.21	52	<0.21	<0.21	0.34	68.6	343
Total Xylenes	<1.34	662	<1.34	161	<1.34	<1.34	<1.34	124	620

(Wells Sampled 11/24/98)

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>MW-6</u>	<u>SUMP</u>	<u>PAL*</u>	<u>ES*</u>
Benzene	<0.26	840	1.3	1300	0.27	<0.26	0.72	0.5	5
Ethylbenzene	<0.24	770	<0.24	140	<0.24	<0.24	0.49	272	1370
MTBE	<0.22	3.6	0.56	<2.2	<0.22	<0.22	<0.22	12	60
Toluene	<0.21	240	<0.21	4.6	<0.21	<0.21	<0.21	68.6	343
Total Xylenes	<1.34	934	<1.34	22	<1.34	<1.34	<1.34	124	620

(Wells Sampled 07/22/98)

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>SUMP</u>	<u>PAL*</u>	<u>ES*</u>
Benzene	<0.26	920	8.5	2600	<0.26	0.39	0.5	5
Ethylbenzene	<0.24	520	0.28	170	<0.24	<0.24	272	1370
MTBE	<0.22	2.3	0.63	<4.4	<0.22	<0.22	12	60
Toluene	<0.21	63	<0.21	14	<0.21	<0.21	68.6	343
Total Xylenes	<1.34	930	<1.34	47.9	<1.34	<1.34	124	620

(Wells MW-1 thru MW-3 Sampled 12/22/97, MW-4 & MW-5 Sampled 05/14/98)

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>PAL*</u>	<u>ES*</u>
Benzene	<0.41	470	<0.41	2700	<0.27	0.5	5
Ethylbenzene	<0.23	120	0.23	290	<0.32	272	1370
MTBE	<0.53	<2.6	0.53	<6.4	<0.32	12	60
Naphthalene	<0.66	<3.3	<0.66	<7.0	<0.35	8	40
Toluene	<0.28	280	<0.28	170	<0.27	68.6	343
Total Xylenes	<0.79	700	<0.79	600	<0.67	124	620
Lead	<1.7	10	<1.5	--	--	1.5	15

NOTE: * Source NR 140.10, Wisconsin Administration Code

TABLE IV

SUMMARY OF GROUNDWATER NATURAL ATTENUATION PARAMETERS

(Sampled 02/26/99)

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>MW-6</u>	<u>SUMP</u>
Temperature (°C)	6.7	5.8	6.6	7.6	9.4	9.5	6.7
Dissolved Oxygen (mg/l)	3.92	3.69	4.75	2.53	2.91	3.21	3.36
Nitrate (mg/kg)	14.9	3.5	0.0	0.0	3.0	11.6	0.0
Sulfate (mg/kg)	106	25	84	5	80	62	33
Iron (II) (mg/kg)	0.00	>3.30	0.07	0.64	0.12	0.22	0.15

(Sampled 11/24/98)

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>MW-6</u>	<u>SUMP</u>
Temperature (°C)	15.2	14.4	13.5	15.8	15.7	16.0	11.9
Dissolved Oxygen (mg/l)	2.40	0.15	2.30	0.27	0.31	4.06	0.44
Nitrate (mg/kg)	8.9	0.0	3.8	0.4	0.0	0.0	0.0
Sulfate (mg/kg)	88	2	94	1	96	75	37
Iron (II) (mg/kg)	0.18	>3.30	0.08	0.73	0.08	0.18	0.02

(Sampled 07/22/98)

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>SUMP</u>
Temperature (°C)	18.5	18.0	17.0	17.1	17.7	16.5
Dissolved Oxygen (mg/l)	0.68	1.10	0.90	0.95	0.73	0.48
Nitrate (mg/kg)	7.3	0.0	3.6	0.0	0.0	1.2
Sulfate (mg/kg)	74	0	98	2	103	17
Iron (II) (mg/kg)	0.07	>3.30	0.12	1.71	0.12	0.04