GIS REGISTRY INFORMATION

SITE NAME:	Whitehouse Property						
BRRTS #:	02-68-000789	**FID # (if appropriate):**					
COMMERCE #:	53150-9670-36-A						
CLOSURE DATE:	December 19, 2007						
STREET ADDRESS:	W219S7436 Crowbar Dr						
CITY:	Muskego						
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =**	667926	**Y =**	272327			
CONTAMINATED MEDIA:	Groundwater		Soil		Both	X	
OFF-SOURCE GW CONTAMINATION >ES:			**Yes**		**No**	X	
• **IF YES, STREET ADDRESS:**							
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**		**Y =**				
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):	**Yes**		**No**	X			
• **IF YES, STREET ADDRESS 1:**							
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**		**Y =**				
CONTAMINATION IN RIGHT OF WAY:	**Yes**		**No**	X			

DOCUMENTS NEEDED

Closure Letter, and any conditional closure letter issued or denial letter issued	X
Copy of any maintenance plan referenced in the final closure letter	
Copy of (soil or land use) deed notice *if any required as a condition of closure*	
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 that 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. 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. This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), *if required for site investigation (SI).* 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	X
Geologic cross-sections, *if required for SI*	
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)	

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TDD #: (608) 264-8777
Fax #: (414) 357-4700
Jim Doyle, Governor
Jack L. Fischer, A.I.A., Secretary

commerce.wi.gov
Wisconsin
Department of Commerce

December 19, 2007

Mr. Duane Whitehouse
W219 S7436 Crowbar Drive
Muskego, WI 53150

RE: **Final Closure**

Commerce # 53150-9670-36-A DNR BRRTS # 02-68-000789
Whitehouse Property, W219 S7436 Crowbar Drive, Muskego

Dear Mr. Whitehouse:

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

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

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 357-4703.

Sincerely,

Linda M. Michalets
Senior Hydrogeologist
Site Review Section

cc: Mr. Jason Bartley, Environmental & Development Solutions, Inc.

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
Jim Doyle, Governor
Mary P. Burke, Secretary

April 11, 2007

Mr. Duane Whitehouse
W219 S7436 Crowbar Drive
Muskego, WI 53150

RE: **Conditional Case Closure**

Commerce # 53150-9670-36-A DNR BRRTS # 02-68-000789
Whitehouse Property, W219 S7436 Crowbar Drive, Muskego

Dear Mr. Whitehouse:

The Wisconsin Department of Commerce (Commerce) has reviewed the potable well analytical results submitted by your consultant, Environmental & Development Solutions, Inc., for the site referenced above. It is understood that residual soil and groundwater contamination remains on site in the area where the underground and aboveground storage tanks were formerly located. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

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

A final closure letter will be sent upon receipt of the well abandonment documentation.

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

Sincerely,

Linda M. Michalets
Senior Hydrogeologist
Site Review Section

cc: Mr. Jason Bartley, Environmental & Development Solutions, Inc.

Map created Tue Jan 02 15:07:38 CST 2007

Legend

- Sites Closed with Residual Contamination
- Groundwater
- Soil
- Groundwater and Soil
- Offsource Contamination
- County Boundary
- 24K Open Water
- Municipalities

Scale: 1:2,603

DO NOT USE FOR NAVIGATION

Wisconsin Department of Revenue

DOCUMENT NO.

1519941

STATE BAR OF WISCONSIN FORM 3 — 1982

QUIT CLAIM DEED

THIS SPACE RESERVED FOR RECORDING DATA

REGISTER'S OFFICE
WAUKESHA COUNTY, WIS. SS
RECORDED ON

1989 JAN 24 PM 3:19

REEL 1080 IMAGE 0427

1519941

NANCY L. WHITEHOUSE

quit-claims to DUANE C. WHITEHOUSE

the following described real estate in Waukesha County, State of Wisconsin:

RETURN TO Atty. David J.Carlson
324 West Broadway
Waukesha, WI 53186

W219 S7436 Crowbar Road,

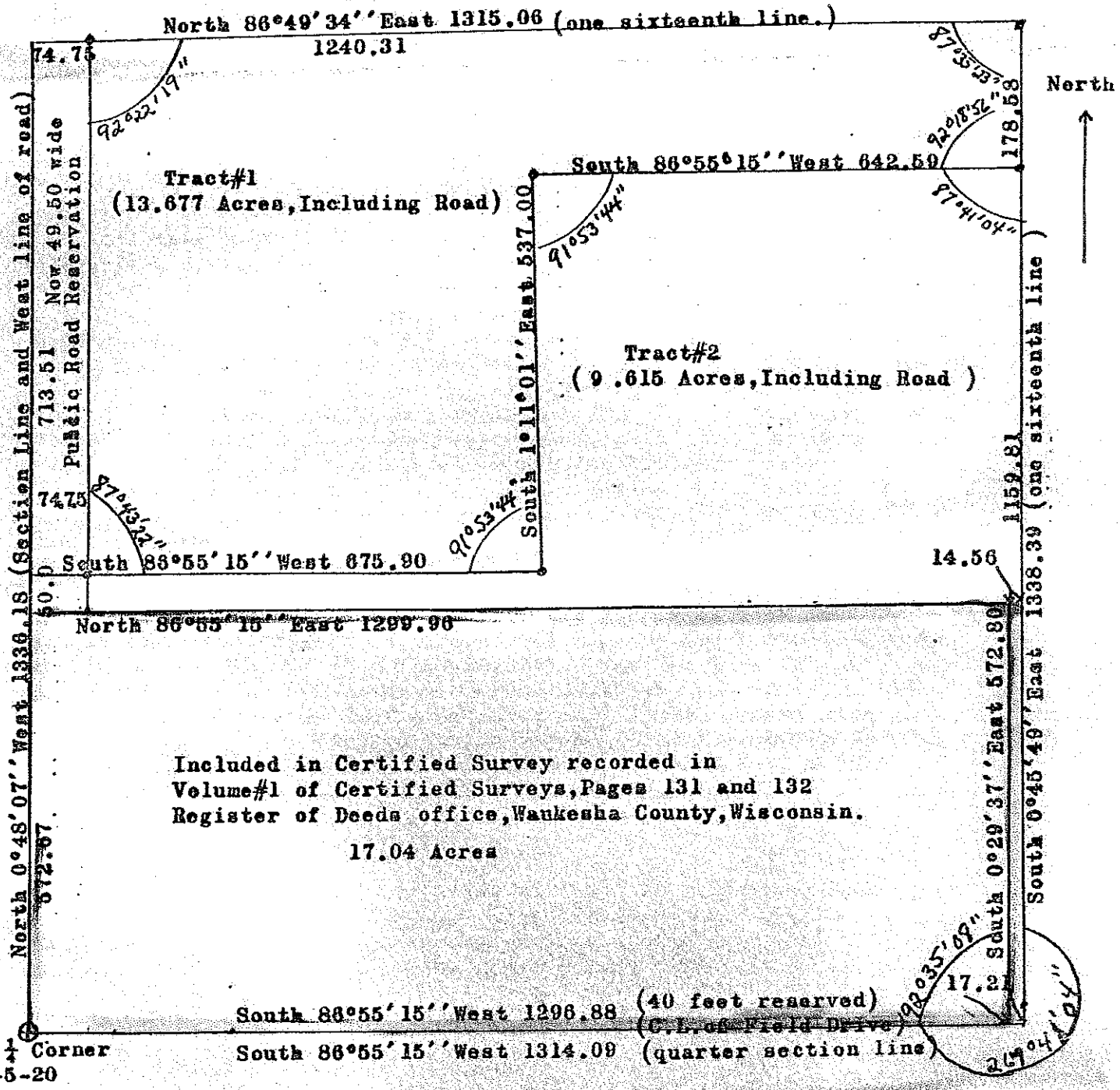
FEE
77.25(8)
EXEMPT

Tax Parcel No: 2186-991-001
2186-991-002

PARCEL 1:
All that part of the North West 1/4 of Section 7, Town 5 North, Range 20 East, Town of Muskego, Waukesha County, Wisconsin, bounded and described as follows, to-wit: Commencing at the South West corner of said North West 1/4 of Section 7; thence due East along the South line of said 1/4 Section 1296.88 feet; thence North 2 degrees 36' East 572.80 feet; thence due West 1299.96 feet to the West line of said 1/4 Section; thence South 2 degrees 17' 30" West along said West line 572.67 feet to the point of commencement and containing 17.04 acres of land.

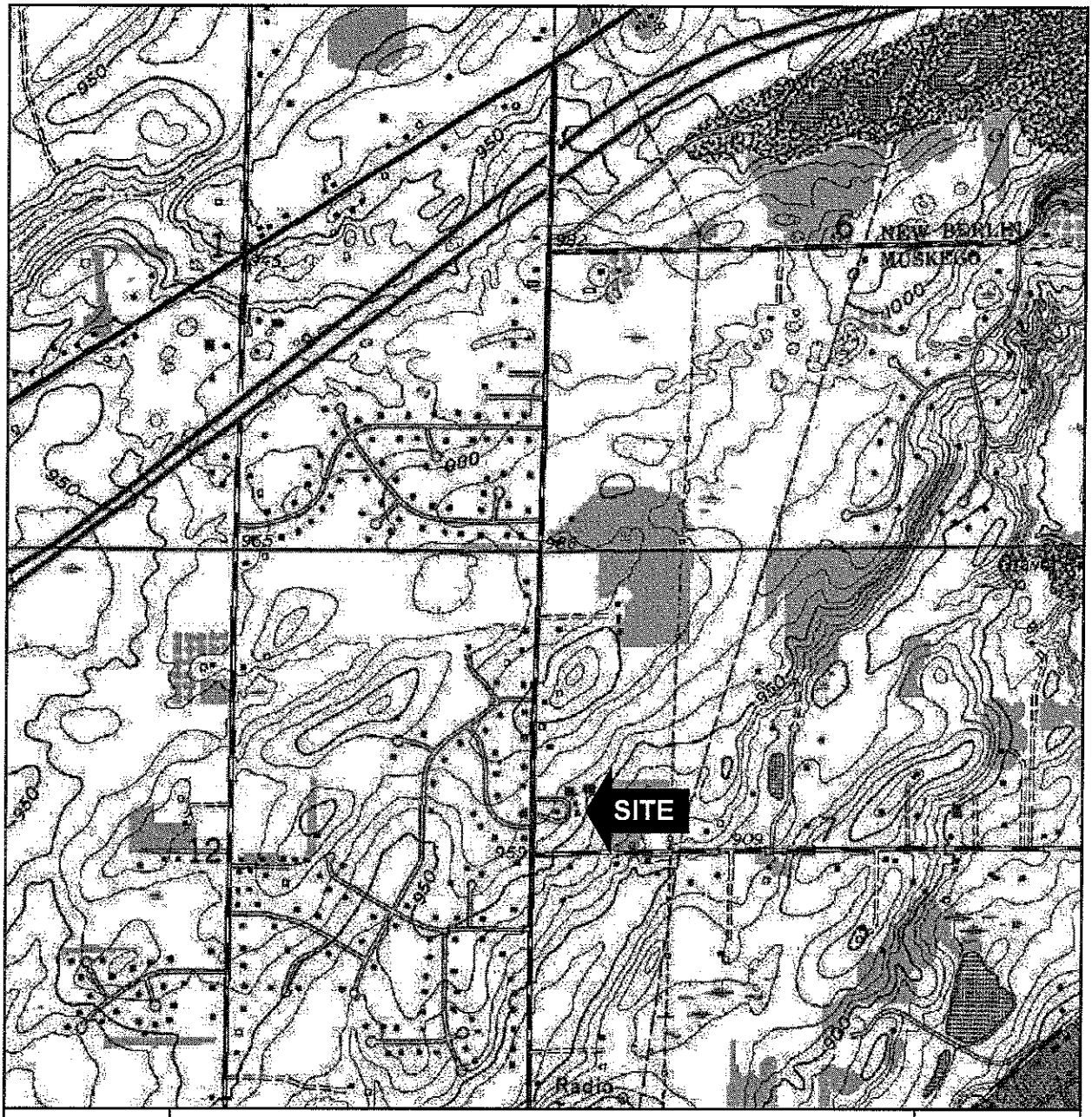
PARCEL 2:
Tract #2 of Certified Survey Map No. 2418, recorded October 27, 1975 at 2:10 p.m., in Volume 17 of Certified Survey Maps, Pages 246, 247 and 248, Document No. 928787, being a part of the Southwest 1/4 of the Northwest 1/4 of Section 7, Township 5 North, Range 20 East, City of Muskego, Waukesha County, Wisconsin.

Certified Survey Plat



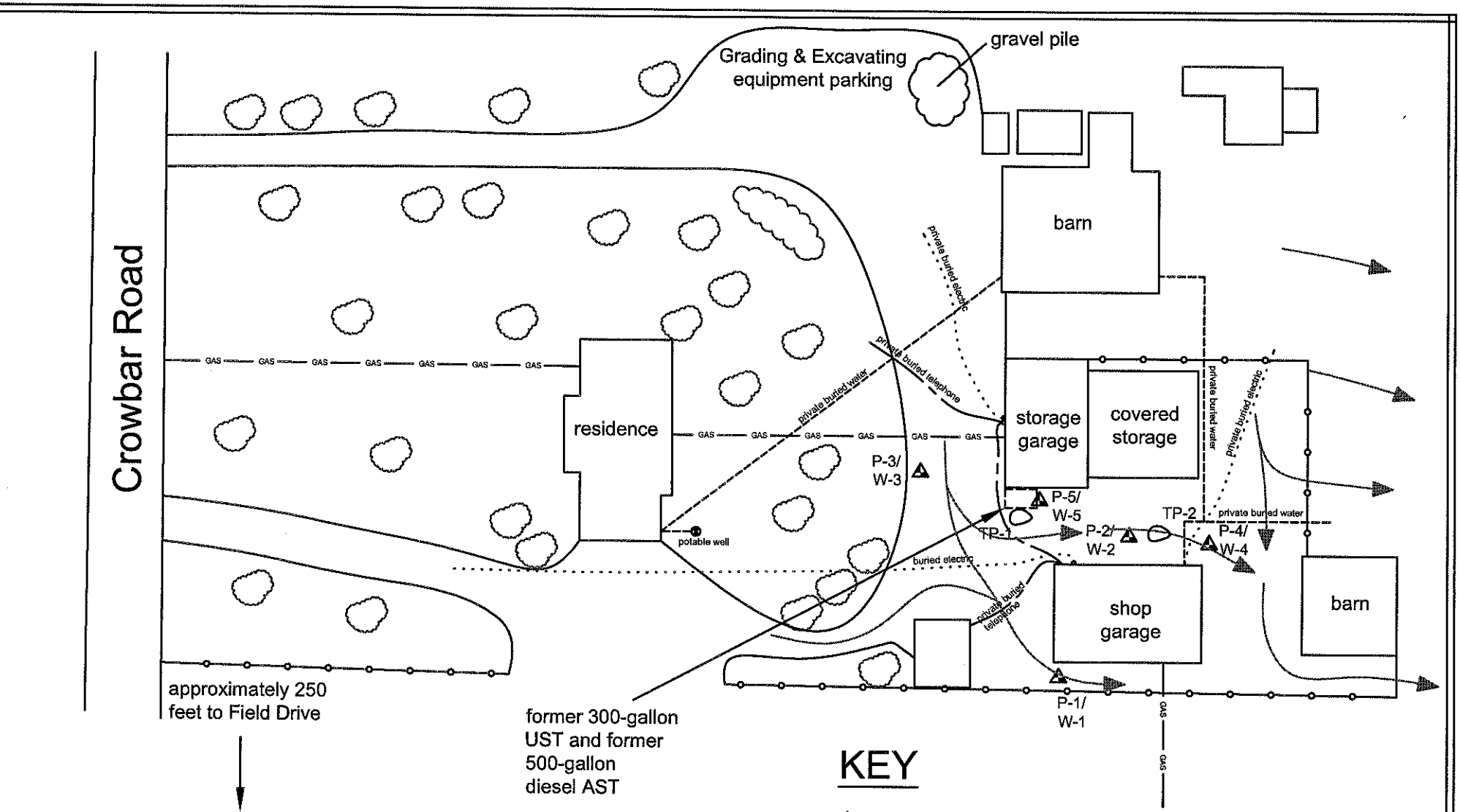
SURVEYOR'S CERTIFICATE

Merrill Stalbaum, a registered land surveyor, Wisconsin registration S-718 hereby certifies that he has surveyed, mapped and divided the following described lands, by the order and under the direction of Ervin H. Whitehouse and Esther E. Whitehouse as owners of said lands located in



Approximate Scale 1" = 1,500'	United States Geologic Society Topographic Map Muskego Quadrangle 1959 (updated 1994) SW 1/4 of NW 1/4 of Sec 7, T5N, R20E	NORTH

environmental & development solutions	Vicinity Diagram W219 S7436 Crowbar Drive Muskego, Wisconsin	Figure 1



File No.:	051215a
DWG Date:	1-17-06
Rev Date:	
Drawn By:	JEB
Checked By (PM):	JEB

environmental & development solutions

Site Features Diagram
Whitehouse Property
W219 S7436 Crowbar Road
Muskego, WI

Figure
2

TABLE 3
Groundwater Analytical Results
Whitehouse Farm Property
Muskego, Wisconsin

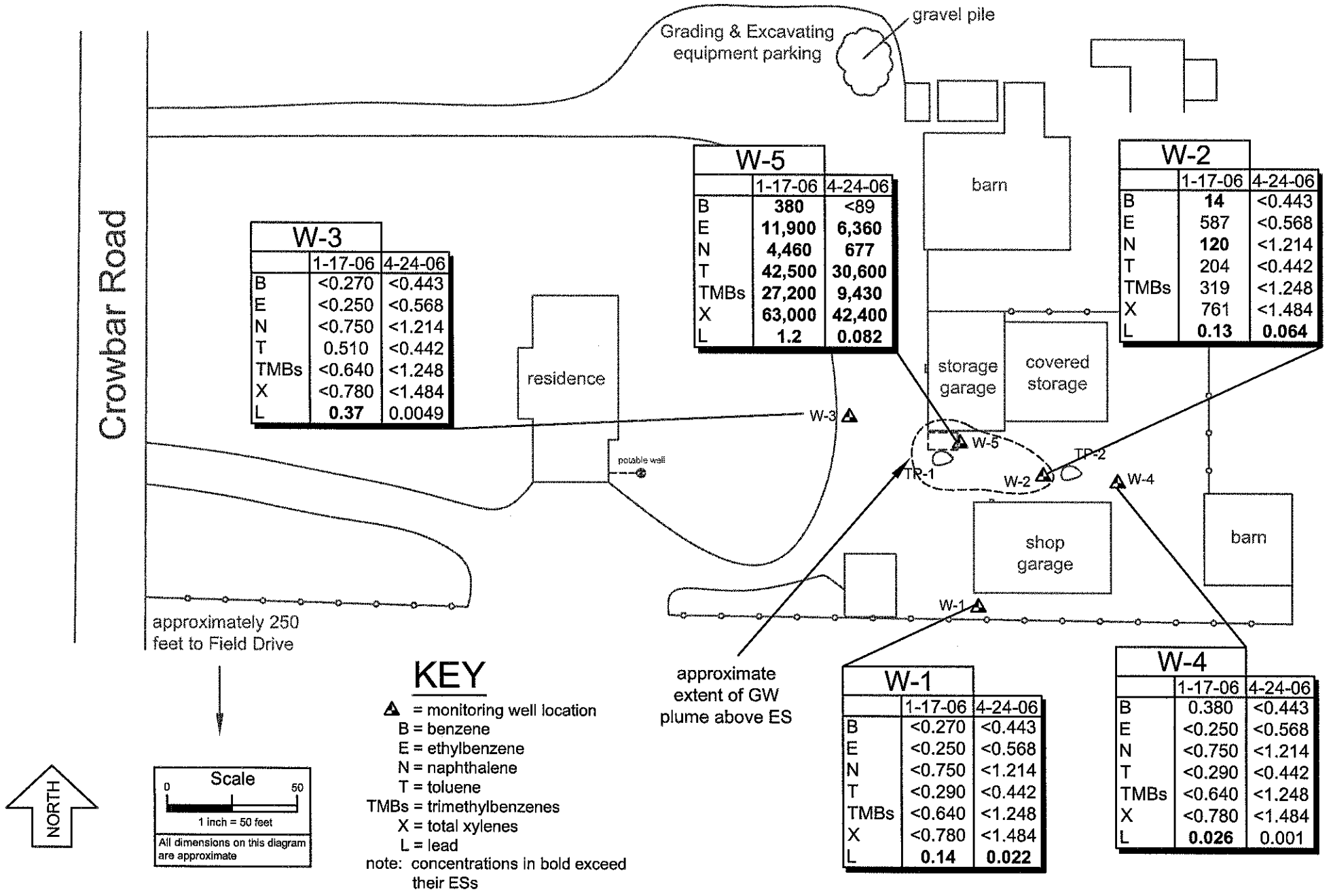
		Detected PVOCs						VOCs		
Well ID	Sampling Date	Benzene (ppb)	Ethyl-benzene (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Comb. Trimethyl-benzenes (ppb)	Total Xylenes (ppb)	Isopropyl-benzene (ppb)	n-Propyl-benzene (ppb)	Dissolved Lead (ppm)
W-1	1/17/06	<0.270	<0.250	<0.750	<0.290	<0.640	<0.780	<0.330	<0.280	**0.14**
	4/24/06	<0.443	<0.568	<1.214	<0.442	<1.248	<1.484	NA	NA	**0.022**
W-2	1/17/06	**14**	587	**120**	204	319	761	20	52	**0.13**
	4/24/06	<0.443	<0.568	<1.214	<0.442	<1.248	<1.484	NA	NA	**0.064**
W-3	1/17/06	<0.270	<0.250	<0.750	0.510	<0.640	<0.780	<0.330	<0.280	**0.37**
	4/24/06	<0.443	<0.568	<1.214	<0.442	<1.248	<1.484	NA	NA	0.0049
W-4	1/17/06	0.380	<0.250	<0.750	<0.290	<0.640	<0.780	<0.330	<0.280	**0.026**
	4/24/06	<0.443	<0.568	<1.214	<0.442	<1.248	<1.484	NA	NA	0.001
W-5	1/17/06	**380**	**11,900**	**4,460**	**42,500**	**27,200**	**63,000**	820	3,230	**1.2**
	4/24/06	<89	**6,360**	**677**	**30,600**	**9,430**	**42,400**	NA	NA	**0.082**
ES (ppb)	-	*5*	*700*	*40*	*1,000*	*480*	*10,000*	*NS*	*NS*	*0.015*
PAL (ppb)	-	*0.5*	*140*	*8*	*200*	*96*	*1,000*	*NS*	*NS*	*0.0015*

Note: Concentrations which exceed their respective WAC Chapter NR 140 PALs are underlined.
Concentrations which exceed their respective WAC Chapter NR 140 ESs are **bold**.

TABLE 1
Soil Analytical Results — SI Samples
Whitehouse Farm Property
Muskego, Wisconsin

					Detected PVOCs						VOCs		
Location:Depth	Date	PID Reading (iu)	GRO (ppm)	DRO (ppm)	Benzene (ppb)	Ethyl-benzene (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Comb. TMBs (ppb)	Total xylenes (ppb)	Isopropyl-benzene (ppb)	p-Isopropyl-toluene (ppb)	Total lead (ppm)
P-1:4-6	1/12/06	<1	2.776	NA	<18	<17	<54	<20	<48	<58	NA	NA	NA
P-1:10-12	1/12/06	<1	2.688	NA	<18	<17	<52	<19	<47	<56	NA	NA	NA
P-2:6-8	1/12/06	<1	5.604	NA	<18	<17	<53	<20	101	<57	NA	NA	NA
P-2:10-12	1/12/06	29	8.837	NA	<18	502	380	<20	1,371	1,161	NA	NA	<2.9301
P-3:8-10	1/12/06	<1	2.557	NA	<18	<17	<53	<20	<47	<57	NA	NA	NA
P-4:6-8	1/12/06	<1	2.635	NA	<18	<17	<52	<19	<46	<56	NA	NA	NA
P-4:10-12	1/12/06	<1	3.015	NA	<18	<17	<52	<19	<47	<56	NA	NA	NA
P-5:2-4	1/12/06	436	**655**	NA	<18	<17	**17,100**	<20	85	<56	NA	NA	6.641
P-5:8-10	1/12/06	>1,000	**3,380**	NA	**316**	**62,400**	**17,800**	**89,000**	193,400	**350,000**	5,500	3,780	5.169
P-5:14-16	1/12/06	21	3.81	NA	<31	<29	<86	<33	<73	<152	<38	<36	NA
surface samples													
P-2:0-0.5	1/17/06	<1	NA	50	<18	<17	NA	<20	<48	<58	NA	NA	NA
P-4:0-0.5	1/17/06	<1	NA	67	<18	<17	NA	<19	<46	<56	NA	NA	NA
TP-1:0-0.5	1/17/16	<1	NA	**607**	<17	<16	NA	<19	532	<54	NA	NA	NA
Generic RCL		—	*100*	*100*	*5.5*	*2,900*	*400*	*1,500*	*NS*	*4,100*	*NS*	*NS*	*50*
NR 746 Table 1		—	—	—	*8,500*	*4,600*	*2,700*	*38,000*	*83K/11K*	*42,000*	*NS*	*NS*	*NS*
NR 746 Table 2		—	—	—	*1,100*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Notes: Concentrations that exceed their DNR NR 720 generic RCLs are **bold**.
Concentrations that exceed their DNR NR 746 Table 1 values are underlined.



W-3	1-17-06	4-24-06
B	<0.270	<0.443
E	<0.250	<0.568
N	<0.750	<1.214
T	0.510	<0.442
TMBs	<0.640	<1.248
X	<0.780	<1.484
L	**0.37**	0.0049

W-5	1-17-06	4-24-06
B	**380**	<89
E	**11,900**	**6,360**
N	**4,460**	**677**
T	**42,500**	**30,600**
TMBs	**27,200**	**9,430**
X	**63,000**	**42,400**
L	**1.2**	**0.082**

W-2	1-17-06	4-24-06
B	**14**	<0.443
E	587	<0.568
N	**120**	<1.214
T	204	<0.442
TMBs	319	<1.248
X	761	<1.484
L	**0.13**	**0.064**

W-1	1-17-06	4-24-06
B	<0.270	<0.443
E	<0.250	<0.568
N	<0.750	<1.214
T	<0.290	<0.442
TMBs	<0.640	<1.248
X	<0.780	<1.484
L	**0.14**	**0.022**

W-4	1-17-06	4-24-06
B	0.380	<0.443
E	<0.250	<0.568
N	<0.750	<1.214
T	<0.290	<0.442
TMBs	<0.640	<1.248
X	<0.780	<1.484
L	**0.026**	0.001

KEY

▲ = monitoring well location
B = benzene
E = ethylbenzene
N = naphthalene
T = toluene
TMBs = trimethylbenzenes
X = total xylenes
L = lead
note: concentrations in bold exceed their ESs

edS environmental & development solutions

File No.: 051215c	
DWG Date: 1-2-07	
Rev Date:	
Drawn By: JEB	
Checked By (PM): JEB	

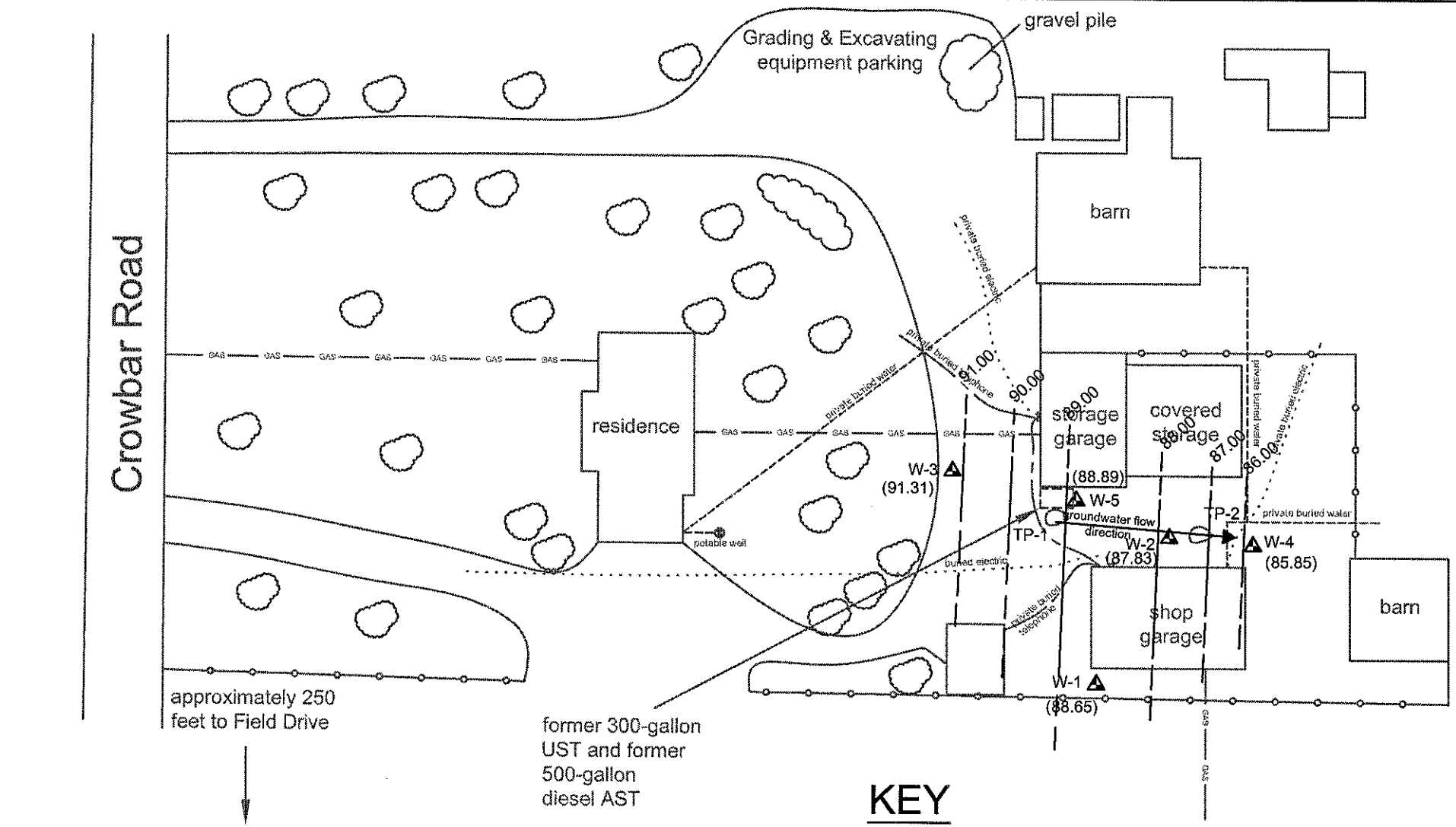
Approximate Extent of Groundwater Impacts Above ES
Whitehouse Property
W219 S7436 Crowbar Road
Muskego, WI

Figure 4

Table 2
Groundwater Elevations
Whitehouse Farm Property
Muskego, Wisconsin

Well Number	Date	*Total Well Depth	Top of Casing Elevation	Ground Surface Elevation	*Depth to Water Below Casing	*Depth to Water Below Ground	Groundwater Elevation
W-1	1/17/06 4/24/06	11.61	97.69	94.49	9.04 5.08	5.84 1.88	**88.65** **92.61**
W-2	1/17/06 4/24/06	11.84	96.59	93.69	8.76 5.51	5.86 2.61	**87.83** **91.08**
W-3	1/17/06 4/24/06	14.52	98.16	97.84	6.85 2.56	6.53 2.24	**91.31** **95.60**
W-4	1/17/06 4/24/06	14.05	93.32	92.55	7.47 3.82	6.70 3.05	**85.85** **89.50**
W-5	1/17/06 4/24/06	14.64	96.68	96.50	7.79 3.63	7.61 3.45	**88.89** **93.05**

*Measured from the north rim of the top of well casing. Total depth measured from ground surface.
All measurements are presented in feet.
Benchmark: Elevations referenced to a benchmark assigned an arbitrary elevation of 100.00 feet.
Note: For a list of abbreviations used in this table, see the "Guide to Abbreviations in Laboratory Data Tables" provided at the beginning of this appendix.

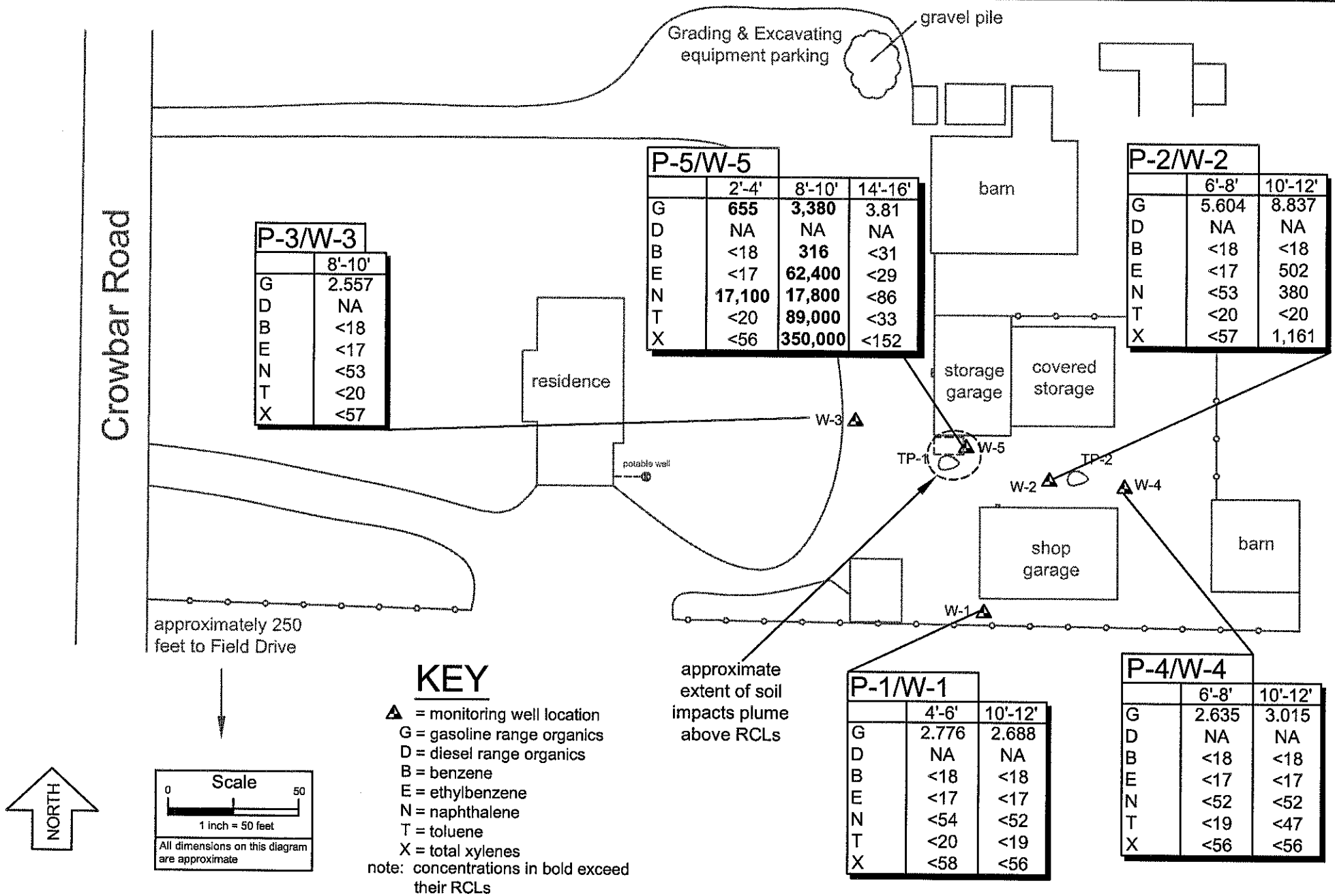


File No.: 051215b	
DWG Date: 1-24-06	
Rev Date:	
Drawn By: JEB	
Checked By (PM): JEB	

environmental & development solutions

Groundwater Elevation Contour Diagram (1-17-06)
Whitehouse Property
W219 S7436 Crowbar Road
Muskego, WI

Figure 3



P-3/W-3	8'-10'
G	2.557
D	NA
B	<18
E	<17
N	<53
T	<20
X	<57

P-5/W-5	2'-4'	8'-10'	14'-16'
G	**655**	**3,380**	3.81
D	NA	NA	NA
B	<18	**316**	<31
E	<17	**62,400**	<29
N	**17,100**	**17,800**	<86
T	<20	**89,000**	<33
X	<56	**350,000**	<152

P-2/W-2	6'-8'	10'-12'
G	5.604	8.837
D	NA	NA
B	<18	<18
E	<17	502
N	<53	380
T	<20	<20
X	<57	1,161

P-1/W-1	4'-6'	10'-12'
G	2.776	2.688
D	NA	NA
B	<18	<18
E	<17	<17
N	<54	<52
T	<20	<19
X	<58	<56

P-4/W-4	6'-8'	10'-12'
G	2.635	3.015
D	NA	NA
B	<18	<18
E	<17	<17
N	<52	<52
T	<19	<47
X	<56	<56

KEY

▲ = monitoring well location
G = gasoline range organics
D = diesel range organics
B = benzene
E = ethylbenzene
N = naphthalene
T = toluene
X = total xylenes
note: concentrations in bold exceed their RCLs

ed s environmental & development solutions

File No.: 051215d	
DWG Date: 1-2-07	
Rev Date:	
Drawn By: JEB	
Checked By (PM): JEB	

Approximate Extent of Soil Impacts Above RCLs
Whitehouse Property
W219 S7436 Crowbar Road
Muskego, WI

Figure 5

January 4, 2007

Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

RE: Signed Statement for GIS Packet for the Whitehouse Property Located at W219 S7436 Crowbar Drive in Muskego, Wisconsin — BRRTS No. 02-68-000789; Commerce No. 53150-9670-36

I am the responsible party of the above-referenced site. I believe that the legal description and certified survey plat map (contained herein) are complete and accurate for the property being listed the soil and groundwater Geographic Information System (GIS).

Respectfully,

Duane Whitehouse
W219 S7436 Crowbar Drive
Muskego, WI 53150