# GIS REGISTRY Cover Sheet

#### **Source Property Information** CLOSURE DATE: Mar 25, 2010 03-66-000344 **BRRTS #:** FID #: 866071360 ACTIVITY NAME: WDOT - FORMER NORM'S MOBIL NA DATCP #: PROPERTY ADDRESS: STH 53 & RIPLEY RD ROW COMM #: NA MUNICIPALITY: SARONA 65-032-2-37-12-02-5, 15-326-600000 PARCEL ID #:





\* Coordinates are in WTM83, NAD83 (1991)

### WTM COORDINATES REPRESENT:

Approximate Center Of Contaminant Source

C Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

## **Contaminated Media:**

**X** Groundwater Contamination > ES (236)

- **X** Contamination in ROW
- Off-Source Contamination

(**note:** for list of off-source properties see "Impacted Off-Source Property")

- **Soil** Contamination > \*RCL or \*\*SSRCL (232)
  - **X** Contamination in ROW
  - **X** Off-Source Contamination

(**note:** for list of off-source properties see "Impacted Off-Source Property")

## Land Use Controls:

Soil: maintain industrial zoning (220)

(**note:** soil contamination concentrations between residential and industrial levels)

Structural Impediment (224)

Site Specific Condition (228)

Cover or Barrier (222)

(**note:** maintenance plan for groundwater or direct contact)

Vapor Mitigation (226)

Maintain Liability Exemption (230)

(*note: local government or economic development corporation*)

### Monitoring wells properly abandoned? (234)

🔿 Yes 💿 No

o 🔿 N/A

\* Residual Contaminant Level \*\*Site Specific Residual Contaminant Level

State of Wisconsin	GIS Registry Checklist
Department of Natural Resources	
http://dnr.wi.gov	Form 4400-245 (R 4/08) Page 1 of 3

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

**NOTICE: Completion of this form is mandatory** for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #:	03-66-000344	PARCEL ID #:	65-032-2-37-12-02-5, 15-326-6	500000	
ACTIVITY NAME:	WDOT - FORMER NORM'S MOBIL		WTM COORDINATES:	X: 379402	Y: 583531

### **CLOSURE DOCUMENTS** (the Department adds these items to the final GIS packet for posting on the Registry)

### **Closure Letter**

Maintenance Plan (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)

- Conditional Closure Letter
- Certificate of Completion (COC) for VPLE sites

### SOURCE LEGAL DOCUMENTS

**Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.

**Note:** If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

**Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map *for those properties* where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

### Figure #: 12 Title: Certified Survey Map for Ruby McNabb

Signed Statement: A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

### **MAPS** (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

**Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.

**Note:** Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.

### Figure #: 14 Title: Site Locator Map

**Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

### Figure #: 15 Title:

Soil Contamination Contour Map: For sites closing with residual soil contamination, <u>this map is to show the location of all</u> <u>contaminated soil and a single contour</u> showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19. BRRTS #: 03-66-000344

ACTIVITY NAME: WDOT - FORMER NORM'S MOBIL

**MAPS** (continued)

**Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

### Figure #: 3 (C3) Title: Geologic Cross Sections A-A' & B-B'

Figure #: Title:

**Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data. *Note: This is intended to show the total area of contaminated groundwater.* 

### Figure #: C2-2 Title: Extent of Groundwater Impacts

**Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: A3 3/3 Title: Site Plan and August 2006 Water Table Map

Figure #: Title:

### **TABLES** (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables <u>must not</u> contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

Soil Analytical Table: A table showing <u>remaining</u> soil contamination with analytical results and collection dates.
 Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

### Table #: C1, 3, 4, 7 Title: Soil Analytical Results

**Groundwater Analytical Table:** Table(s) that show the <u>most recent</u> analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

### Table #: - Title: Summary of Groundwater Analytical Results

**Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

### Table #: - Title: Summary of Groundwater & Well Elevations

### **IMPROPERLY ABANDONED MONITORING WELLS**

For each monitoring well <u>not</u> properly abandoned according to requirements of s. NR 141.25 include the following documents. **Note:** If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

#### Not Applicable

**Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

**Note:** If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

Figure #: Title:

Well Construction Report: Form 4440-113A for the applicable monitoring wells.

**Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

**Notification Letter:** Copy of the notification letter to the affected property owner(s).

Page 3 of 3

BRRTS #: 03-66-000344

ACTIVITY NAME: WDOT - FORMER NORM'S MOBIL

### **NOTIFICATIONS**

### Source Property

- **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying NA for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been reauested.
- Return Receipt/Signature Confirmation: Written proof of date on which confirmation was received for notifying current source property owner.

### **Off-Source Property**

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

Letter To "Off-Source" Property Owners: Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control NA under s. 292.12, Wis. Stats.

Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

### Number of "Off-Source" Letters:

- **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- Deed of "Off-Source" Property: The most recent deed(s) as well as legal descriptions, for all affected deeded off-source property(ies). This does not apply to right-of-ways.

**Note:** If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

**Exter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

### Number of "Governmental Unit/Right-Of-Way Owner" Letters: 2

State of Wisconsin	Impacted Off-Source Property Information
Department of Natural Resources http://dnr.wi.gov	Form 4400-246 (R 3/08)

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BRRTS #:	03-66-000344			
ACTIVITY N	AME: WDOT - FORMER NORM'S MOBIL			
ID	Off-Source Property Address	Parcel Number	<b>WTM X</b>	<b>WTM Y</b>
AW	5302 RIPLEY RD, Sarona WI 54870	65-032-2-37-12-02-5 15-326-600000	379396	583533
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# State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor Matthew J. Frank, Secretary John Gozdzialski, Regional Director Northern Region Headquarters 107 Sutliff Ave. Rhinelander, Wisconsin 54501-3349 Telephone 715-365-8900 FAX 715-365-8932 TTY Access via relay - 711

March 25, 2010

Mr. Robert Pearson Wisconsin Department of Transportation 4802 Sheboygan Avenue Madison, WI 53707-7965

Subject:

Final Case Closure with Continuing Obligations Former Norm's Mobile/ Wisconsin WDNR BRRTS Activity # 03-66-000344

Dear Mr. Pearson:

On July 2, 2009, the Northern Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On September 15, 2009, you were notified the committee granted conditional closure to this case.

On January 24, 2010, the department received the site closure report prepared by RMT indicating that you have complied with the requirements for final closure in response to the September 15, 2009 conditional closure letter. The report detailed the abandonment of all monitoring wells except MW 7 and MW 9 that were in the right-of-way (ROW) and could not be located. These lost wells have been added to the GIS registry information. Documentation was also included for the decommissioning and abandonment of the soil and groundwater active remediation systems installed in 1996, which included a soil vapor extraction well at the source areas and a product recovery/extraction well in the area of free product. Off-site disposal of two granular activated carbon vessels and the granular activated carbon was completed on December 16, 2009 by Veolia Environmental Services and documented in the report. Also, in December 2009, the Polk County Highway Department removed the remaining equipment, building, fence, and concrete slab from the site. On March 24, 2010 the Department received an updated map relating to post remediation soil contamination.

Based on the correspondence and data provided, it appears that your case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time, however, you and future property owners must comply with certain continuing obligations as explained in this letter.

### **GIS Registry**

This site will be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:



the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at <u>http://dnr.wi.gov/org/aw/rr/gis/index.htm</u>.

### Monitoring Wells that could not be Properly Abandoned

On January 24, 2010 your consultant RMT notified the Department that (a) monitoring well(s) MW 7 and MW 9 located within the right of way at the locations depicted on the attached Figure C2-2 could not be properly abandoned because they were missing due to being paved over, covered or removed during site development activities. Your consultant has made a reasonable effort to locate the wells depicted on the attached map and to determine whether they were properly abandoned but has been unsuccessful in those efforts. You need to understand that in the future you may be held liable for any problems associated with monitoring wells MW 7 and MW 9 if they create a conduit for contaminants to enter groundwater. If in the future any of the groundwater monitoring wells are found, the then current owner of the property on which the well is located will be required to notify the Department, to properly abandon the wells in compliance with the requirements in ch. NR 141, Wis. Adm. Code, and to submit the required documentation of that abandonment to the Department.

Because *these* monitoring wells *were* not properly abandoned, the site will be listed on the DNR Remediation and Redevelopment GIS Registry.

### Post-Closure Notification Requirements

In accordance with ss, 292.12 and 292.13, Wis. Stats., you must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

One or more monitoring wells that were not located is found and properly abandoned.

Please send written notifications in accordance with the above requirements to Northern Region RR Program, to the attention of Anna Kazda, 107 Sutliff Avenue, Rhinelander, WI 54501.

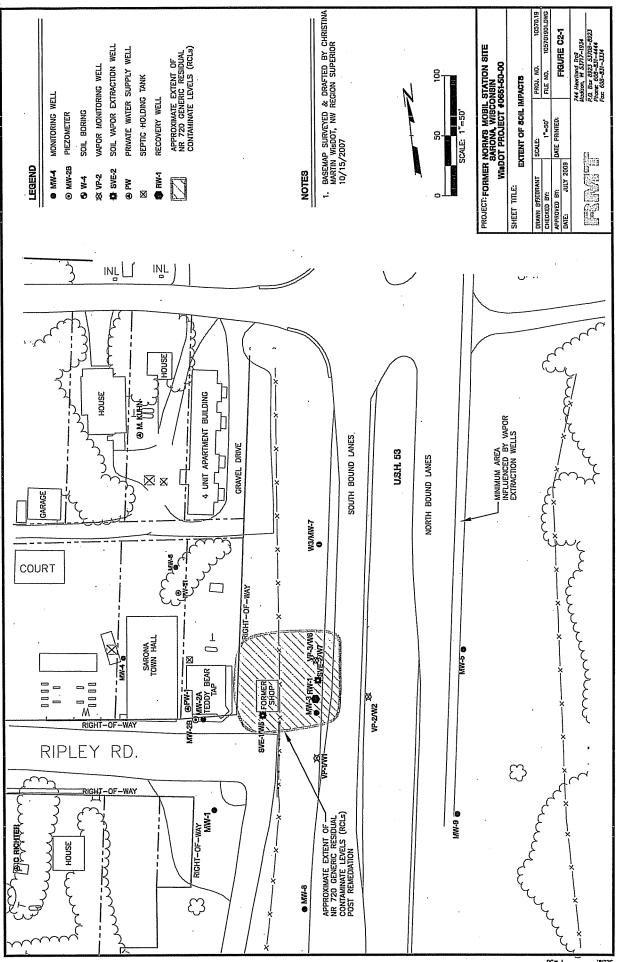
The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Anna Kazda at 715-365-8990

Sincerely,

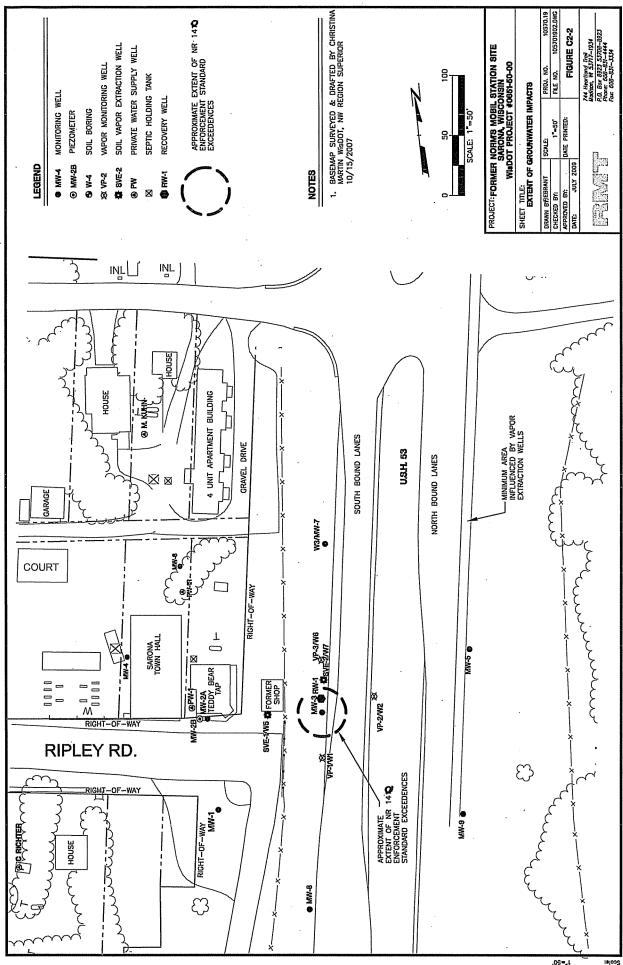
John Robinson, Northern Region Team Supervisor Remediation & Redevelopment Program

Enclosures: Figure C2-1 Extent of Soil Impacts Figure C2-2 Extent of Groundwater Impacts

cc: Dick Fish, RMT Thomas Elliot, W6446 County Highway D, Sarona, WI 54870 T & W Teddy Bear Tap, 1278 78<sup>th</sup> Avenue, Baronette, WI 54813



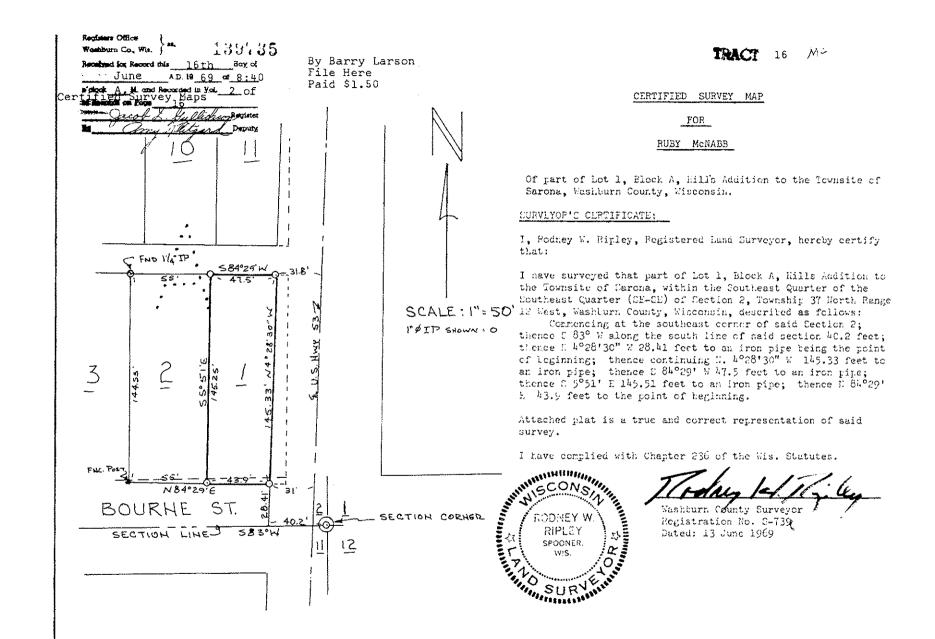
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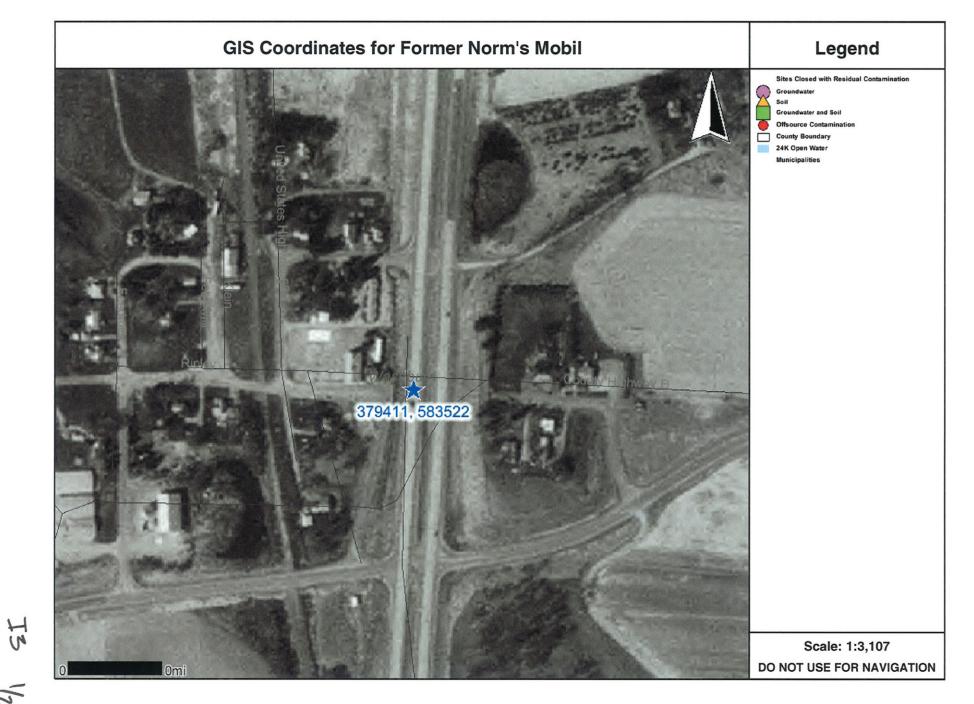
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INFORMATION PROFESSIONALS COMPANY FOND DUILAC, WI 600-655-2021



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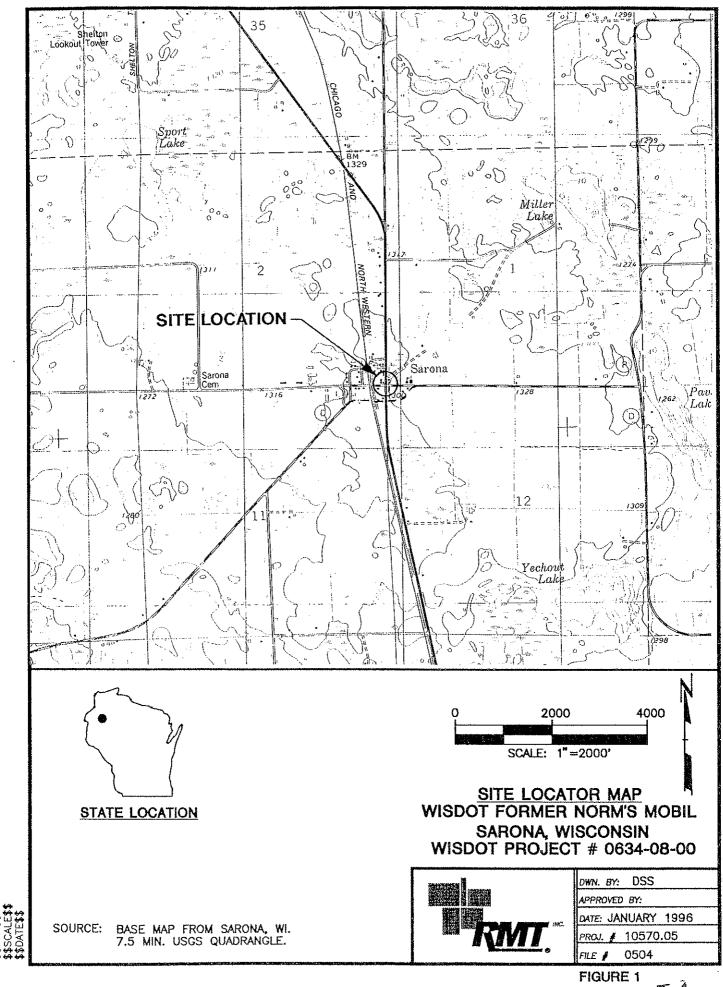


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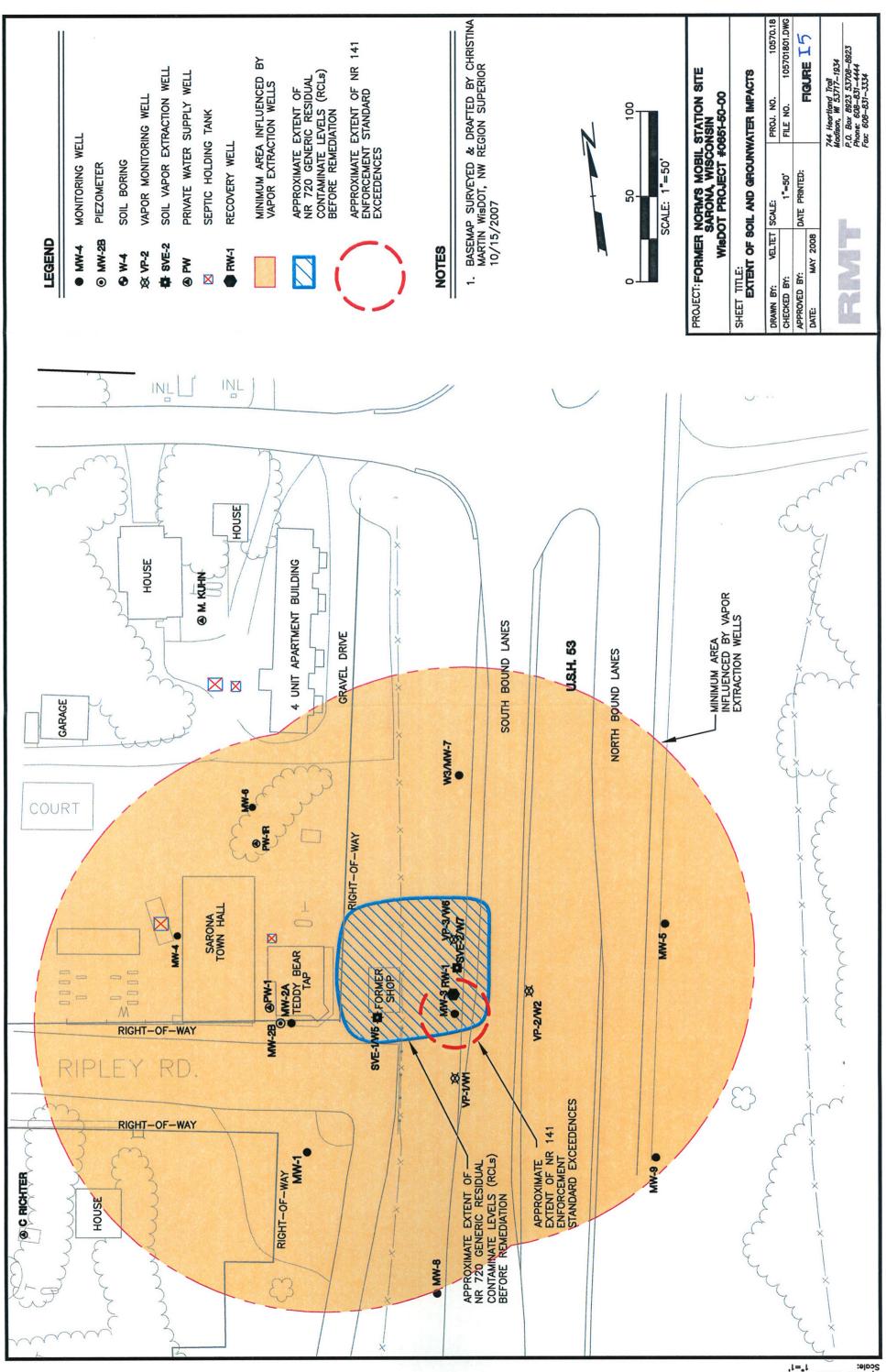
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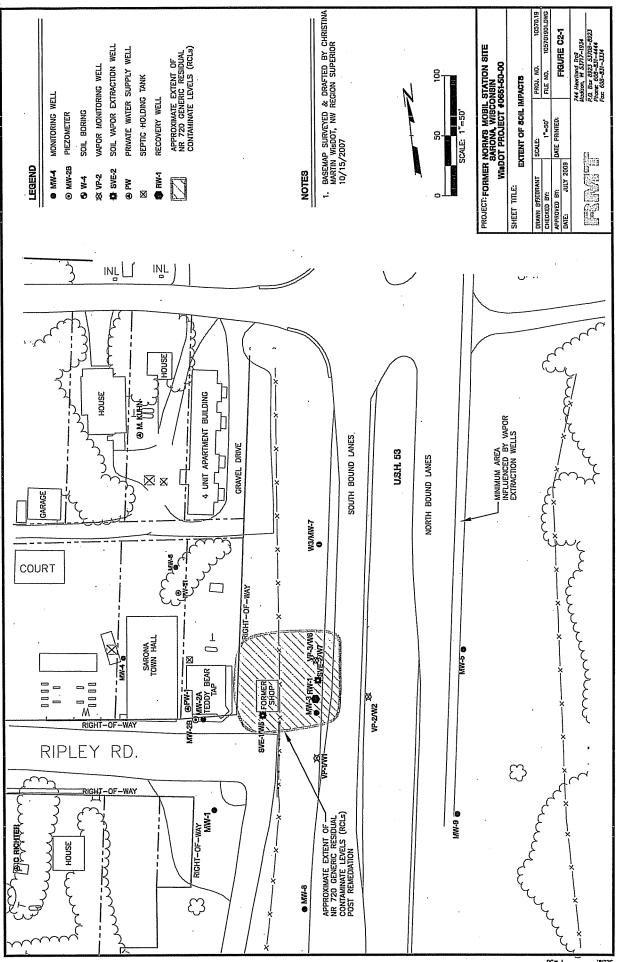


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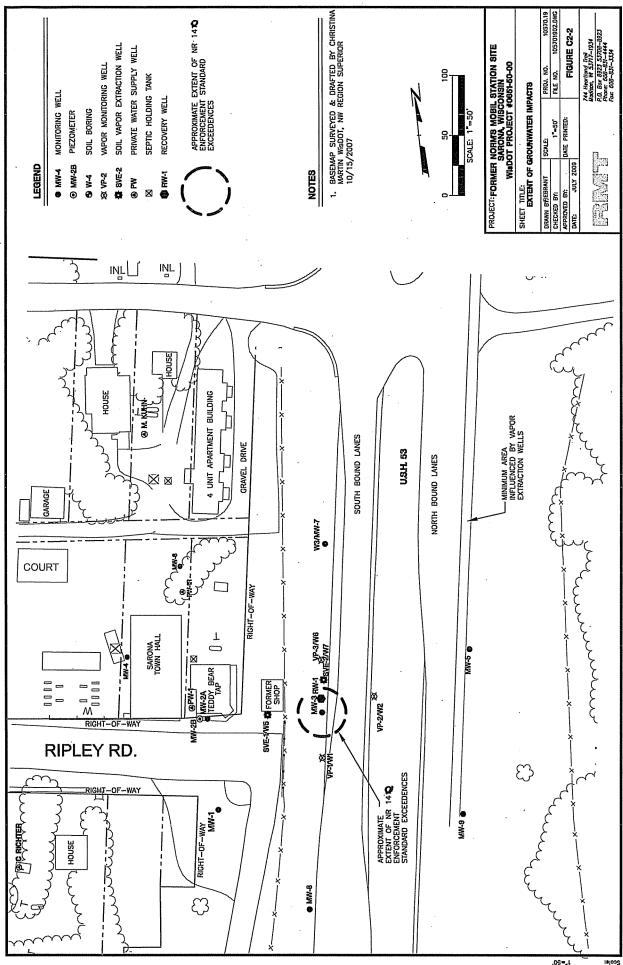
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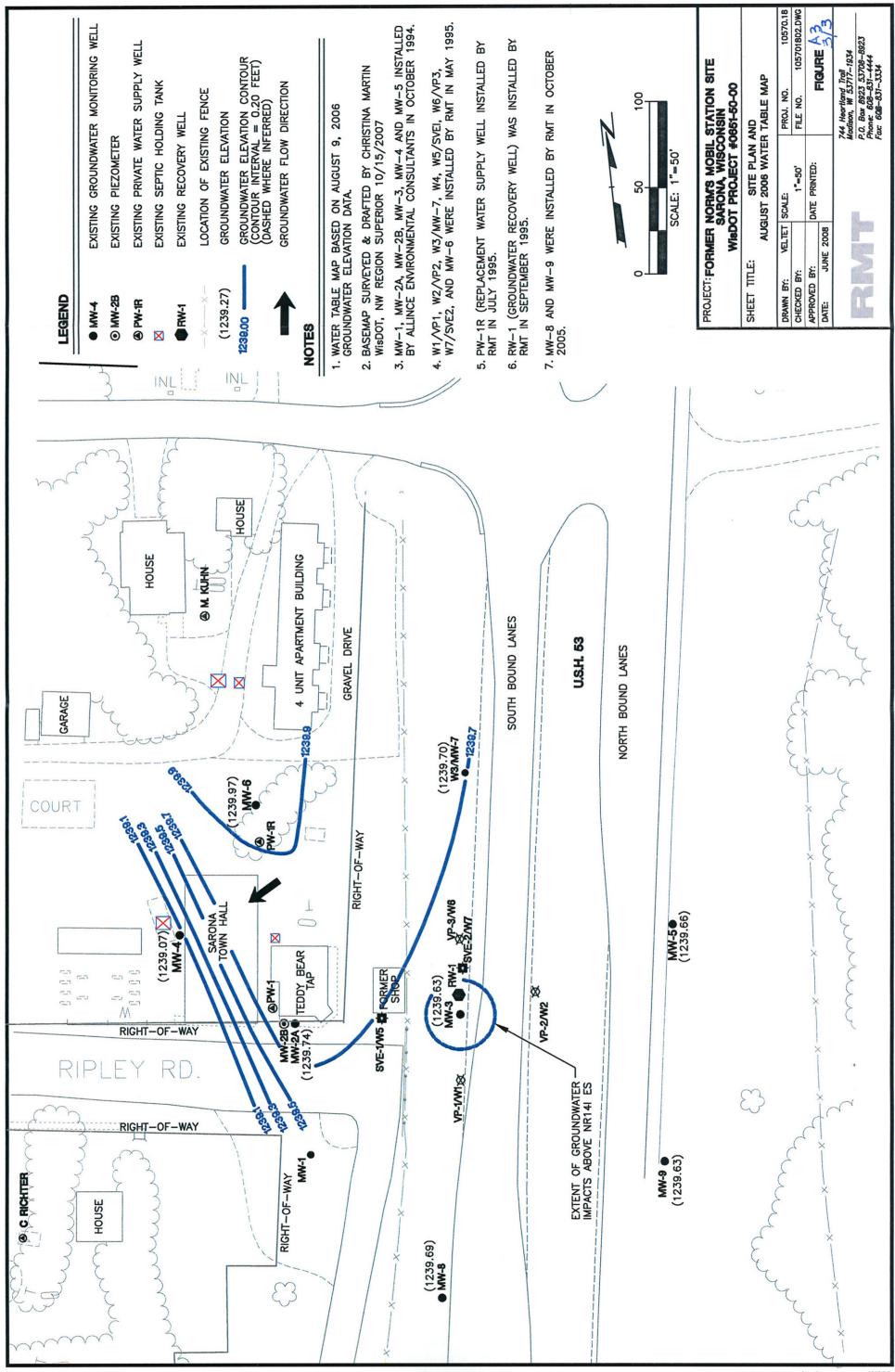
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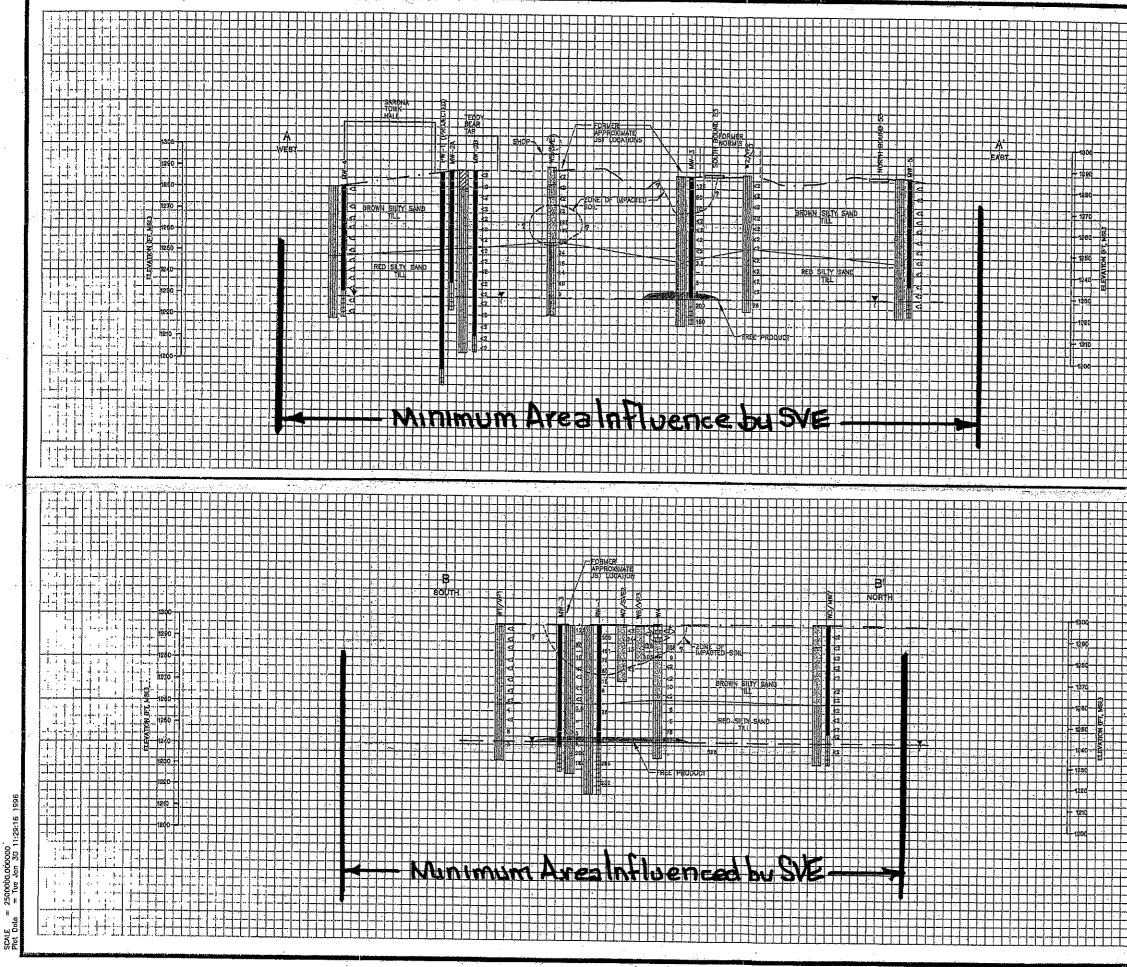


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### Exhibit C1 Summary of PID Field-Screening Results Sarona, Wisconsin

								Boring	g Name							
Sample Depth (feet bgs)	W1 (VP-1)	W2 (VP-2)	W3 (MW7)	W4	W5 (SVE1)	W6 (VP-3)	W7 (SVE2)	MW-1	MW-2A	MW-28	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9
0 - 2.5	< 2	< 2	< 2	< 2	<2	< 2	< 2	0	0	0	0	0	0	< 2	0.2	0.2
2.5 - 5		~ 2	×2	×2	~2	×2		0	0	0	0	0	0	~~	0.2	0.2
5 - 7.5	< 2	< 2	<2	205*	< 2	228*	261*	0	0	0	125	0	0	< 2	0.4	0
7.5 - 10	~ 2	~2	~2	203	~2	220	244	0	0	0	140	0	0	~2	0.1	0
10 - 12.5	< 2*	< 2*	<2	9	<2	105	235	0	0	0	80	0	0	<2*	0.3	0.3
12.5 - 15	~ 2	×2	~2		~~	100	15	0	0	0	15	0	0		0.0	0.0
15 - 17.5	< 2	< 2	< 2*	< 2	22*		7	0	0	0	10	0	0	< 2	0	0.3
17.5 - 20	~ 2	~~	~~	~ 4	<u> </u>		2	0	0	0	0	0	0	~~		0.0
20 - 22.5	< 2	< 2	<2	< 2	498*		<2	0	0	0	0	0	0	<2	0.3	0.3
22.5 - 25	~2	~~	12		150		<2	0	0	0	0	0	0		0.0	0.0
25 - 27.5	< 2	< 2	<2	10	192			0	0	0	0	0	0	<2	0.5	0.3
27.5 - 30	12			10				0*	0	0*	0.5	0	0		0.0	
30 - 32.5	< 2	< 2	<2	<2	289			0	0	0	1	0	0	<2	0.5	0
32.5 - 35	- 4		- 2-	· ~	207			0	0	0	1.5	0*	0*			Ľ.
35 - 37.5	< 2	<2	<2	5	24			0	0	0	1.5	0	0	< 2	0.3	0
37.5 - 40				Ç				0	0	0	2	0	0		0.0	Ľ
40 - 42.5	- 4*	< 2*	<2	5	15			0	0	0	3.5	0	0	< 2	0.2	0
42.5 - 45								0	0	0	6	0	0			
45 - 47.5	<2	<2	<2	76	14			0	0	0	NR	0	0	<2	0.4	0
47.5 - 50		ļ	_	. •			· · · ·	0	0	0	12	0	0			
50 - 52.5	- 8	< 2	< 2*	50	40			0	0	0	3	0	0	<2*	0.6	0
52.5 - 55								0	0	0	30*	0*	0			
55 - 57.5	3	26	<2	526*	9			0	0	0	4	0	0	< 2	0.3	0
57.5 - 60								0*	0	NR	200*	0	0*		ļ	
60 - 62.5							<u> </u>	0	0	2	200		0		ļ	
62.5 - 65			ļ				<u> </u>	0	ļ	2	250*		0		<u> </u>	
65 - 67.5							ļ	0		2	150*		<u> </u>		<u> </u>	
67.5 - 70								0		3	125		<u> </u>			
70 - 72.5							ļ			1-2	ļ			<u> </u>	<u> </u>	
72.5 - 75										1-2*	ļ	Į	1			
75 - 77.5	<u> </u>		ļ				<u> </u>			1-2		ļ	L	<b>_</b>		1
77.5 - 80		ļ					ļ	ļ	Į	2		[			<u> </u>	<u> </u>
80 - 82.5		ļ					1	ļ		NR		ļ	ļ			
82.5 - 85							<u> </u>			NR		]				

Notes:

bgs = below ground surface

\* = denotes samples laboratory analyzed

C1 1/4

	TABLE 3 SUMMARY OF PHASE III FIELD-SCREENING RESULTS AT WISDOT - FORMER NORM'S MOBIL STATION SARONA, WISCONSIN WISDOT PROJECT NUMBER: 0634-08-00														
	Depth of Sample (feet bgs)														
Boring Name	4-6	9-11	14-16	19-21	24-26	29-31	34-36	39-41	44-46	49-51	54-56	59-61			
W1 (VP-1)	<2	<2	<2	<2	<2	<2	<2	<2	4	<2	8	3			
W2 (VP-2)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	26			
W3 (MW7)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			
/ W4	<2	205	9	<2	<2	10	<2	5	5	76	50	526			
W5 (SVE1)	<2	<2	<2	22	498	192	289	24	15	14	40	9			
W6 (VP-3)	<2	228	105	NS	NS	NS	NS	NS	NS	NS	NS	NS			
W7 (SVE2)	<2	244	15	<2	<2	NS									
MW6	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			
NOTES:	low ground	i surface.	·	<u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<b>\$</b>										

Field-screened results are in Instrument Units and represent total volatile organic compounds (VOCs). Soil samples were field-screened with a photoionization detector (PID) using a 10.2-eV lamp. Field-screening results for additional site borings are included on Figure 3.

						ILE 4								
	SUMMARY OF SOIL ANALYTICAL RESULTS STATION AT WisDOT - FORMER NORM'S MOBIL SARONA, WISCONSIN WisDOT PROJECT NUMBER: 0634-08-00													
Sample Ident	ification	DRO (mg/kg)	GRO (mg/kg)	MTBE (µg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (µg/kg)	124-TMB (µg/kg)	135-TMB (μg/kg)				
W-1/VP-1	15'	<3.5	<5.9	<1.2	<1.2	. 1.3	<1.2	<3.5	<1.2	<1.2				
	40'	<3.1	<5.5	<1.1	<1.1	<1.1	<1.1	<3.3	<1.1	<1.1				
W-2/VP-2	15'	4.4	<6.1	<1.2	<1.2	<1.2	<1.2	<3.7	<1.2	<1.2				
	35'	NA	NA	<1.2	<1.2	<1.2	<1.2	<3.6	<1.2	<1.2				
W-3/MW7	20'	NA	NA	<1.1	<1.1	<1.1	<1.1	<3.3	<1.1	<1.1				
	55'	<3.3	<5.5	<1.1	<1.1	<1.1	<1.1	<3.3	<1.1	<1.1				
W-4	10'	4.6	160	< 6.1	<6.1	30	55	230	200	56				
	55'	<3.3	<5.8	<1.2	1.6	8.8	7.2	32	27	9.8				
W-5/SVE1	20'	<3.7	NA	<1.1	<1.1	<1.1	<1.1	<3.2	<1.1	<1.1				
	25'	1,400	7,200	<620	<620	2,000	3,400	21,000	14,000	12,000				
W-6/VP3	10'	290	NA	<1,200	<1,200	3,800	6,000	33,000	35,000	17,000				
W-7/SVE2	7.5'	2,000	NA	<1,100	<1,100	5,500	7,200	48,000	32,000	25,000				
MW-6	15'	9.0	<6.0	<1.2	<1.2	<1.2	<1.2	<3.6	<1.2	<1.2				
	55'	<3.8	<5.7	<1.1	<1.1	<1.1	<1.1	<3.4	<1.1	<1.1				
NR720 Soil C Standards	leanup	100	100	NS	5.5	1,500	2,900	4,100	NS	NS				
DRO         Die           GRO         Ga           MTBE         Me           124-TMB         1,2           135-TMB         1,3	esel range soline rar thyl-tert-b 4-Trimett	e organic co nge organic outyl-ether nylbenzene nylbenzene	compound											

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Table 7: Soil Analytical Results Sarona Responsible Party Investigation Sarona, Wisconsin Alliance No. 3000501

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Parameter	MW-1 20,5-31-51	MW+1 59,3-61,5	MW-28 59.6-81.5'	MW-28 74.5-78,8*	MW+3 57-69*	MW-3 82-84'	MW+4 32-34	MW~6 52-54*	MW+5 32-34'	MW-5 59.5-81.8*	DUPLICATE
3enzene	BDL	BDL.	0.00628	0.00249	13.8	0.00427	BDL	BDL	BDL	BDL	BDL
n-Butylbanzane	BDL	BDL	0.0177	0.008	70.1	0.0758	BDL	BDL	0.0127	BDL	801.
1.2 Dichloroethane	BOL	BDL	BDL	BOL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1.2 Dibromoethane	BDL	BOL	BOL	BDL	BDL	BOL	BDL	BDL	BDL	BDI.	BDL
Ethylbenzene	BDL	BDL	0.0113	0.00815	91.7	0.0452	BÖL	BDL	BDL	BDL.	BDL
sopropylbenzene	BOL	BDL	BDL	BDL	10.8	0.00807	BDL.	BOL	BDL	BDL	BDL
sopropyl Ether	BDL	BDL.	BOL	BDL	14.3	BOL	BÖL	BOL	BDL	BDL	BDI.
Methylene Chloride*	BDL	BDL	BÖL	0.0189	BOL	0.024	0.0353	0.0297	BDL	BDL	0.0408
Vapthalene	BDL	BDL	0.0749	0.0093	BOL	0.0403	BDL	BDL	BDL	BDL	BDL.
n-Propylbenzene	BDL	BDL.	BDL	BDL	42.6	0.019	BDL	BDL	BDL	BDL	BDL
oluene	BDL	BDL	0.0132	BDL	288	0.351	BDL	BDL.	BDL	BDL	BOL
1,2.4-Trimethylbenzene	BDL	BDL	0.051	0.008	200	0.00	BDL	8DL	0.0118	0.0094	BDL
1.3.5-Trimethylbenzene	BDL	BDL	0.0128	0.0055	73.6	0.0325	edi.	8DL	BDL	BDL	BDL
m·& p-Xylone	BOL	BDL	0.0518	0.0178	387	0.16	8DL	BDL	BOL	BDL	BDL
o-Xviene & Sivrene	BDL	BDL	0.0114	0.00543	154	0.093	BÖL	BDL	8DL	BDI.	BDL
SRO	BDL	BDL.	8DL	BDL.	1144	11.4	BDL	8DL	BDL	SDL	BDL

All results are in ug/g (parts per million)

BDL: Below Detection Limit

GRO: Gasoline Range Organics

DUPLICATED SAMPLES

VOC - MW-4 52'-54'

GRO - MW-5 59.5'-61.5'

\* Analyte is a common laboratory solvent or chemical.

Presence in the sample may be due to laboratory contamination.

# Summary of Groundwater Analytical Results WisDOT - Former Norm's Mobil Sarona, Wisconsin

WisDOT Project #0651-50-00

# (all concentrations in $\mu$ g/L)

WELL NUMBER	DATE <sup>(1)</sup>	BENZENE	ETHYL- BENZENE	TOLUENE	124-TMB	135-TMB	тмв	XYLENES	MTBE
NR 140	ES	5	700	1,000	NS	NS	480	10,000	60
Standards	PAL	0.5	140	200	NS	NS	96	1,000	12
MW-1	10/31/1994	0.2	<1.0	<2.0	<1.0	<1.0	<2.0	<2.0	<2.0
	6/2/1995	<0.6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0
	4/2/1997	<0.20	<0.32	<0.28	<0.45	<0.37	<0.82	<1.0	< 0.34
	7/24/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	10/20/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	4/27/1998	<0.27	<0.32	0.43 (Q)	<0.22	<0.27	<0.49	<0.67	<0.32
	10/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	12/7/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	7/30/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	11/21/2003	<0.30	<0.60	0.61 (Q)	<0.66	<0.52	<1.18	<1.84	<0.58
	5/4/2004	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/4/2004 (2)	<0.14	<0.40	1.0(Q)	<0.39	< 0.40	<0.79	1.74 (Q)	<0.36
	10/4/2005	<0.21	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	12/1/2005	<0.14	<0.40	<0.36	<0.39	< 0.40	<0.79	<1.10	<0.36
	4/12/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
MW-2A	10/31/1994	370	1,180	620	1,950	625	2 <i>,</i> 575	5,760	100
	6/2/1995	260	700	170	420	500	920	2,210	<10
	1/20/1997	< 0.14	21	6.1	7.5	6.6	14	13	23
	4/2/1997	11	5	2.2	0.65	2.5	3	5.8	1.9
	7/24/1997	2.5	0.83	0.59	< 0.50	0.56	<1.06	1.2	<0.50
	10/20/1997	0.81	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	4/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	7/27/1998	<0.27	<0.32	<0.75 (Q)	<0.22	<0.27	<0.49	<0.67	<0.32
	10/27/1998	1.4	0.86 (Q)	1.2	<0.22	<0.27	< 0.49	0.70 (Q)	<0.32
1	1/26/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	4/27/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	8/11/1999	<0.26	< 0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	11/4/1999	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
1	2/10/2000	<0.26	<0.24	<0.21	<0.86	< 0.54	<1.40	<1.34	<0.22

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WisDOT - Former Norm's Mobil

Sarona, Wisconsin

WisDOT Project #0651-50-00

(all concentrations in µg/L)

WELL NUMBER	DATE <sup>0)</sup>	BENZENE	ETHYL- BENZENE	TOLUENE	124-TMB	135-TMB	тмв	XYLENES	MTBE
NR 140	ES	5	700	1,000	NS	NS	480	10,000	60
Standards	PAL	0.5	140	2.00	NS	NS	96	1,000	12
MW-2A	6/8/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
(continued)	8/30/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	12/7/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	11/21/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	5/4/2004	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/4/2004 (2)	<0.14	<0.40	0.84 (Q)	<0.39	<0.40	<0.79	1.98 (Q)	<0.36
	10/4/2005	<0.21	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	12/1/2005	< 0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	4/12/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
MW-2B	10/31/1994	75.1	324	<50	77.4	196	273	513	<50
	6/2/1995	9.3	33	3.7	<1.0	1.8	1.8	6.2	5.1
	1/20/1997	<0.14	<0.14	<0.16	<0.25	<0.13	<0.38	<0.44	<0.18
	4/2/1997	<0.20	<0.32	<0.28	<0.45	<0.37	<0.82	<1.0	<0.34
	7/24/1997	0.63	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	10/20/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	4/27/1998	0.85 (Q)	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	7/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	10/27/1998	1.7	0.95 (Q)	1.5	<0.22	<0.27	<0.49	0.72 (Q)	<0.32
	1/26/1999	0.77 (Q)	<0.24	<0.21	<0.86	< 0.54	<1.40	<1.34	<0.22
	4/27/1999	0.67	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	8/11/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	11/4/1999	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	2/10/2000	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	6/8/2000	< 0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	8/30/2000	< 0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	12/7/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	11/21/2003	1.9	<0.60	0.63 (Q)	1.9 (Q)	2.6	4.5	<1.84	1.2 (Q)
	5/4/2004	0.8	<0.40	<0.36	0.53	6.4	6.93	<1.10	0.41
	8/4/2004	1.8	47	<0.36	<0.39	2.4	2.4	0.75 (Q)	<0.36

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WisDOT Project #0651-50-00

(all concentrations in  $\mu$ g/L)

WELL NUMBER	DATE <sup>(1)</sup>	BENZENE	ETHYL- BENZENE	TOLUENE	124-TMB	135-TMB	TMB	XYLENES	MTBE
NR 140	ES	5	700	1,000	NS	NS	480	10,000	60
Standards	PAL	0.5	140	200	NS	NS	96	1,000	12
MW-2B	10/4/2005	5.5	11	12	200	140	340	226	5.8
(continued)	12/1/2005	5.2	10	1.7	23	38	61	20	9.2
	4/12/2006	0.48	2.8	<0.36	<0.39	0.88	0.88	<1.10	<0.36
	8/9/2006	1.7	50	1.6	110	68	178	63.7	8.2
MW-3	10/31/1994	6,300	2,200	22,300	1,220	343	1,563	12,790	<100
	1/20/1997	Р	Р	Р	Р	Р	Р	Р	Р
	7/24/1997	Р	P	Р	Р	Р	Р	Р	Р
	10/20/1997	Р	Р	Р	Р	Р	Р	Р	Р
	4/27/1998	Р	Р	Р	Р	Р	Р	·P	Р
	7/27/1998	Р	Р	Р	Р	Р	Р	Р	Р
	1/26/1999	Р	Р	P	Р	Р	Р	Р	Р
Ì	4/27/1999	Р	Р	Р	P	Р	Р	Р	Р
	8/11/1999	Р	Р	Р	P	Р	Р	Р	Р
	11/4/1999	Р	Р	P	Р	Р	Р	Р	Р
	2/10/2000	P	Р	Р	Р	P	Р	Р	Р
	8/30/2000	P	Р	Р	Р	Р	Р	Р	P
	12/7/2000	P	Р	P	P	Р	Р	Р	Р
	11/21/2003	1,800	3,400	14,000	3,800	1,100	4,900	16,900	74 (Q)
	5/4/2004	1,300	1,500	6,800	1,400	390	1,790	7,100	<18
	8/4/2004	1,900	2,100	10,000	1,700	470	2,170	9,700	41 (Q)
	10/4/2005	370	2,000	4,900	2,500	760	3,260	9,600	<18
	12/1/2005	940	3,100	11,000	3,200	950	4,150	14,100	<45
	4/12/2006	1,100	2,500	8,300	2,500	700	3,200	11,200	<36
	8/9/2006	3,000	1,900	12,000	1,600	460	2,060	8,800	<36
MW-4	10/31/1994	0.4	<1.0	<2.0	<1.0	<1.0	<2.0	<2.0	<2.0
	6/2/1995	0.8	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0
	1/20/1997	<0.14	<0.14	<0.16	<0.25	<0.13	<0.38	<0.44	<0.18
	4/2/1997	<0.20	<0.32	<0.28	<0.45	<0.37	<0.82	<1.0	<0.34
	7/24/1997	0.53	< 0.40	<0.32	<0.50	< 0.56	<1.06	<1.0	<0.50
	10/20/1997	0.75	<0.40	<0.32	< 0.50	< 0.56	<1.06	<1.0	< 0.50



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WisDOT Project #0651-50-00

(all concentrations in  $\mu g/L$ )

WELL NUMBER	DATE <sup>(1)</sup>	BENZENE	ETHYL- BENZENE	TOLUENE	124-TMB	135-TMB	тмв	XYLENES	MTBE
NR 140	ES	5	700	1,000	NS	NS	480	10,000	60
Standards	PAL	0.5	140	200	NS	NS	96	1,000	12
MW-4	4/27/1998	0.50 (Q)	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
(continued)	7/27/1998	<0.27	<0.32	<0.67 (Q)	<0.22	<0.27	<0.49	<0.67	<0.32
	10/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	1/26/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	4/27/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	8/11/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	11/4/1999	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	2/10/2000	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	6/8/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	8/30/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	7/30/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	11/21/2003	<0.30	<0.60	0.67 (Q)	<0.66	<0.52	<1.18	<1.84	<0.58
	5/4/2004	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/4/2004 (2)	<0.14	<0.40	0.70 (Q)	<0.39	<0.40	<0.79	1.42 (Q)	<0.36
	12/1/2005	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	4/12/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
MW-5	10/31/1994	<0.2	<1.0	<2.0	<1.0	<1.0	<2.0	<2.0	<2.0
	6/2/1995	<0.6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0
	1/20/1997	< 0.14	<0.14	<0.16	<0.25	<0.13	<0.38	<0.44	<0.18
	4/2/1997	<0.20	<0.32	<0.28	<0.45	<0.37	<0.82	<1.0	<0.34
	7/24/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	10/20/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	4/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	7/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	10/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	4/27/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	8/11/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	11/4/1999	<0.27	<0.32	0.41	<0.22	<0.27	<0.49	<0.67	<0.32
	2/10/2000	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22

WisDOT - Former Norm's Mobil

Sarona, Wisconsin

WisDOT Project #0651-50-00

(all concentrations in  $\mu g/L$ )

WELL NUMBER	DATE <sup>(1)</sup>	BENZENE	ETHYL- BENZENE	TOLUENE	124-TMB	135-TMB	TMB	XYLENES	MTBE
NR 140	ES	5	700	1,000	NS	NS	480	10,000	60
Standards	PAL	0.5	140	200	NS	NS	96	1,000	12
MW-5	6/8/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
(continued)	8/30/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	12/7/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
	7/30/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	11/21/2003	<0.30	<0.60	0.62 (Q)	<0.66	<0.52	<1.18	<1.84	<0.58
	5/4/2004	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/4/2004 (2)	< 0.14	<0.40	0.79 (Q)	<0.39	<0.40	<0.79	1.71 (Q)	<0.36
	12/1/2005	<0.14	<0.40	<0.36	<0.39	< 0.40	<0.79	<1.10	<0.36
	4/12/2006	< 0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
MW-6	6/1/1995	<0.6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0
	4/2/1997	<0.20	<0.32	<0.28	<0.45	<0.37	<0.82	<1.0	<0.34
	7/24/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	10/20/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
	4/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	7/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	10/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	1/26/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	4/27/1999	<0.26	<0.24	<0.21	<0.86	<0.54	<1.40	<1.34	<0.22
	8/11/1999	<0.26	<0.24	<0.21	<0.86	< 0.54	<1.40	<1.34	<0.22
	12/7/2000	<0.44	<0.50	<0.40	<0.47	< 0.45	<0.92	<1.31	<0.44
	7/30/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	11/21/2003	< 0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	5/4/2004	< 0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	10/4/2005	<0.21	<0.40	<0.36	< 0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
MW-7	6/1/1995	0.8	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0
	1/20/1997	<0.14	< 0.14	<0.16	<0.25	< 0.13	<0.38	<0.44	<0.18
	4/2/1997	<0.20	<0.32	<0.28	<0.45	<0.37	<0.82	<1.0	<0.34
	7/24/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50

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Sarona, Wisconsin

WisDOT Project #0651-50-00

(all concentrations in  $\mu g/L$ )

WELL NUMBER	DATE <sup>(1)</sup>	BENZENE	ETHYL- BENZENE	TOLUENE	124-TMB	135-TMB	TMB	XYLENES	MTBE
NR 140	ES	5	700	1,000	NS	NS	480	1.0,000	60
Standards	PAL	0.5	140	200	NS	NS	96	1,000	12
MW-7	10/20/1997	<0.40	<0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50
(continued)	4/27/1998	<0.27	<0.32	3.4	<0.22	<0.27	<0.49	<0.67	<0.32
	10/27/1998	<0.27	<0.32	<0.27	<0.22	<0.27	<0.49	<0.67	<0.32
	7/30/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	11/21/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	5/4/2004	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/4/2004 (2)	<0.14	<0.40	0.80 (Q)	<0.39	<0.40	<0.79	1.6 (Q)	<0.36
	12/1/2005	< 0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	4/12/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
MW-8	10/4/2005	<0.41	<0.54	<0.67	<0.97	<0.83	<1.9	<2.63	<0.61
	12/1/2005	< 0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	4/12/2006	< 0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	< 0.36	<0.39	<0.40	<0.79	<1.10	<0.36
MW-9	10/4/2005	<0.41	< 0.54	<0.67	<0.97	<0.83	<1.9	<2.63	<0.61
	12/1/2005	< 0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	4/12/2006	<0.14	< 0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	< 0.36	<0.39	<0.40	<0.79	<1.10	<0.36
RW-1	7/30/2003	1,500	1,300	8,800	620	180	800	5,900	<29
	11/21/2003	1,200	1,300	6,600	740	220	860	6,900	<29
	5/4/2004	650	800	2,500	430	110	540	3,210	<3.6
	8/4/2004	870	870	2,700	510	150	660	3,600	15
	10/4/2005	840	1,100	1,900	670	190	860	4,700	4.1
	12/1/2005	760	1,100	1,500	710	200	910	4,400	11Q
	4/12/2006	690	830	1,500	510	130	640	3,600	<3.6
	8/9/2006	570	740	800	500	140	640	3,150	9.2Q
PW-1R	7/28/1995	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0
	4/2/1997	<0.20	<0.32	<0.28	<0.45	<0.37	<0.82	<1.0	<0.34
	7/24/1997	<0.090	<0.15	<0.13	<0.014	<0.17	<0.18	<0.23	<0.17
	10/20/1997	<0.40	< 0.40	<0.32	<0.50	<0.56	<1.06	<1.0	<0.50

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Sarona, Wisconsin

WisDOT Project #0651-50-00

(all concentrations in µg/L)

WELL NUMBER	DATE <sup>(1)</sup>	BENZENE	ETHYL- BENZENE	TOLUENE	124-TMB	135-TMB	тмв	XYLENES	MTBE
NR 140	ES	5	700	1,000	NS	NS	480	10,000	60
Standards	PAL	0.5	140	200	NS	NS	96	1,000	12
PW-1R	12/7/2000	<0.44	<0.50	<0.40	<0.47	<0.45	<0.92	<1.31	<0.44
(continued)	7/30/2003	<0.41	<0.54	<0.67	<0.97	<0.83	<1.9	<2.63	<0.61
	11/21/2003	<0.30	<0.60	<0.58	<0.66	<0.52	<1.18	<1.84	<0.58
	5/4/2004	<0.41	<0.54	<0.67	<0.97	<0.83	<1.80	<2.63	<0.61
	8/4/2004	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	10/4/2005	<0.41	<0.54	<0.67	<0.97	<0.83	<1.9	<2.63	<0.61
	12/1/2005	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	4/12/2006	<0.14	<0.40	<0.36	<0.39	< 0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
Mock	10/4/2005	< 0.41	< 0.54	<0.67	<0.97	<0.83	<1.9	<2.63	<0.61
	8/9/2006	< 0.14	< 0.40	< 0.36	<0.39	<0.40	<0.79	<1.10	<0.36
Hagen	10/4/2005	<0.41	< 0.54	<0.67	<0.97	<0.83	<1.9	<2.63	<0.61
Ŭ	12/1/2005	<0.14	<0.40	< 0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	4/12/2006	<0.14	<0.40	< 0.36	<0.39	<0.40	<0.79	<1.10	<0.36
	8/9/2006	<0.14	<0.40	<0.36	<0.39	<0.40	<0.79	<1.10	<0.36
Kuhn	7/30/2003	<0.41	< 0.54	<0.67	<0.97	<0.83	<1.9	<2.63	<0.61

#### Footnotes:

(1) The groundwater sampling and analysis results from October 31, 1994, are summarized from the AEC report dated February 1995. Sampling and analysis results from 1995 to the present are provided by RMT, Inc.

<sup>(2)</sup> Some groundwater results from August 4, 2004 were impacted by a toluene- and xylene-contaminated sampling pump.

#### Notes:

P = free product present. No sample collected.

124-TMB = 1,2,4-trimethylbenzene.

135-TMB = 1,3,5-trimethylbenzene.

TMB = 1,2,4- and 1,3,5-trimethylbenzenes.

MTBE = Methyl-tert-butyl-ether.

NS = no standard.

Bold type represents an NR 140 Enforcement Standard exceedence.

(Q) = reported concentration is below the Limit of Quantitation.

ES = Enforcement Standard.

PAL = Preventive Action Limit.



# Summary of Groundwater and Well Elevations

WisDOT - Former Norm's Mobil

### Sarona, Wisconsin

WELL NUMBER	DATE	REFERENCE ELEVATION <sup>(1)</sup> (feet M.S.L.)	TOP OF SCREEN ELEVATION <sup>(1)</sup> (feet M.S.L.)	SCREEN LENGTH (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION <sup>(1)</sup> (feet M.S.L.)
	4/3/1997		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
	7/24/1997					
	4/27/1998				57.68	1240.99
	7/27/1998				57.59	-57.59
	10/27/1998				57.87	-57.87
	1/25/1999				58.43	-58.43
	4/27/1999				58.95	-58.95
	11/4/1999				59.16	1239.51
	6/8/2000				59.85	1238.82
	12/7/2000				61.87	1236.80
	7/30/2003				54.67	1244.00
	11/21/2003				55.05	-55.05
	5/4/2004				56.18	-56.18
	8/4/2004				56.46	-56.46
	10/4/2005				57.78	-57.78
	12/1/2005				58.16	-58.16
	4/12/2006				58.82	-58.82
	8/9/2006				58.98	-58.98
MW-2A	1/20/1997	1299.96	1243.96	10.00	57.48	1242.48
	4/3/1997				57.86	1242.10
	7/24/1997				57.23	1242.73
	4/27/1998				58.97	1240.99
	7/27/1998				58.80	1241.16
	10/27/1998				59.03	1240.93
	1/25/1999				59.73	1240.23
	4/27/1999				60.19	1239.77
	8/11/1999				60.34	1239.62
	11/4/1999	1			60.36	1239.60
	2/10/2000				60.93	1239.03
	6/8/2000				61.31	1238.65

# Summary of Groundwater and Well Elevations (continued)

WisDOT - Former Norm's Mobil

## Sarona, Wisconsin

WELL NUMBER	DATE	REFERENCE ELEVATION <sup>(1)</sup> (feet M.S.L.)	TOP OF SCREEN ELEVATION <sup>(1)</sup> (feet M.S.L.)	SCREEN LENGTH (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION <sup>(1)</sup> (feet M.S.L.)
MW-2A	8/30/2000				61.33	1238.63
(continued)	12/7/2000				60.61	1239.35
	7/30/2003				55.95	1244.01
	11/21/2003				56.17	1243.79
	5/4/2004				57.44	1242.52
	8/4/2004				57.69	1242.27
	10/4/2005				59.00	1240.96
	12/1/2005				59.34	1240.62
	4/12/2006				60.03	1239.93
	8/9/2006				60.22	1239.74
MW-2B	1/20/1997	1299.71	1219.21	4.00	57.37	1242.34
	4/3/1997				57.70	1242.01
	7/24/1997				57.08	1242.63
	4/27/1998				58.78	1240.93
	7/27/1998				58.70	1241.01
	10/27/1998				58.93	1240.78
	1/25/1999				59.63	1240.08
	4/27/1999				60.08	1239.63
	8/11/1999				60.31	1239.40
	11/4/1999				60.24	1239.47
	2/10/2000				60.80	1238.91
	6/8/2000				61.18	1238.53
	8/30/2000	]			61.23	1238.48
	12/7/2000				60.50	1239.21
	7/30/2003				55.84	1243.87
	11/21/2003				56.03	1243.68
	5/4/2004				57.30	1242.41
	8/4/2004				57.60	1242.11
	10/4/2005				58.88	1240.83
	12/1/2005				59.21	1240.50

# Summary of Groundwater and Well Elevations (continued) WisDOT - Former Norm's Mobil

### Sarona, Wisconsin

WELL NUMBER	DATE	REFERENCE ELEVATION <sup>(I)</sup> (feet M.S.L.)	TOP OF SCREEN ELEVATION <sup>(1)</sup> (feet M.S.L.)	SCREEN LENGTH (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION <sup>(1)</sup> (feet M.S.L.)
MW-2B	4/12/2006				59.91	1239.80
(continued)	8/9/2006				60.10	1239.61
MW-3	1/20/1997	1295.99	1236.99	10.00	52.95	1240.21
	7/27/1998 <sup>(2)</sup>				57.31	1238.68
	1/25/1999 <sup>(3)</sup>				57.65	1238.34
	4/27/1999				56.72	1239.27
	8/11/1999				58.90	1237.09
	11/21/2003	1296.40 <sup>(4)</sup>			53.08	1243.32
	5/4/5004				53.90	1242.50
	8/4/2004				54.21	1242.19
	10/4/2005				55.55	1240.85
	12/1/2005				55.62	1240.78
	4/12/2006				56.59	1239.81
	8/9/2006				56.77	1239.63
MW-4	1/20/1997	1292.11	1241.11	10.00	49.68	1242.43
	4/3/1997				50.10	1242.01
	7/24/1997				49.51	1242.60
	4/27/1998				51.16	1240.95
	7/27/1998	1			50.99	1241.12
	10/27/1998				51.26	1240.85
	1/25/1999				51.96	1240.15
	4/27/1999				52.42	1239.69
	8/11/1999				52.56	1239.55
	11/4/1999				52.62	1239.49
	2/10/2000				53.19	1238.92
	6/8/2000				53.62	1238.49
	8/30/2000				54.60	1237.51
	12/7/2000	]			52.84	1239.27
	7/30/2003	]			48.05	1244.06
	11/21/2003				48.29	1243.82

# Summary of Groundwater and Well Elevations (continued)

# WisDOT - Former Norm's Mobil

## Sarona, Wisconsin

WELL NUMBER	DATE	REFERENCE ELEVATION <sup>(1)</sup> (feet M.S.L.)	TOP OF SCREEN ELEVATION <sup>(1)</sup> (feet M.S.L.)	SCREEN LENGTH (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION <sup>(1)</sup> (feet M.S.L.)
MW-4	5/4/2004				49.69	1242.42
(continued)	8/4/2004				49.88	1242.23
	10/4/2005				51.21	1240.90
	12/1/2005				51.62	1240.49
	4/12/2006				52.27	1239.84
	8/9/2006				53.04	1239.07
MW-5	1/20/1997	1296.42	1241.42	10.00	54.02	1242.40
	4/3/1997				54.32	1242.10
	7/24/1997				53.73	1242.69
	4/27/1998				55.43	1240.99
	7/27/1998				55.34	1241.08
	10/27/1998				55.55	1240.87
	4/27/1999				56.65	1239.77
	8/11/1999				56.86	1239.56
	11/4/1999				56.87	1239.55
	2/10/2000				57.46	1238.96
	6/8/2000				57.69	1238.73
	8/30/2000				57.78	1238.64
	12/7/2000				57.18	1239.24
	7/30/2003				52.47	1243.95
	11/21/2003				52.72	1243.70
	5/4/2004				53.88	1242.54
	8/4/2004				54.28	1242.14
	10/4/2005				55.48	1240.94
	12/1/2005				56.63	1239.79
	4/12/2006	]			56.53	1239.89
	8/9/2006				56.76	1239.66
MW-6	4/3/1997	1290.97	1239.97	10.00	48.92	1242.05
	7/24/1997				48.19	1242.78
	4/27/1998				49.96	1241.01

# Summary of Groundwater and Well Elevations (continued)

WisDOT - Former Norm's Mobil

## Sarona, Wisconsin

WELL NUMBER	DATE	REFERENCE ELEVATION <sup>(1)</sup> (feet M.S.L.)	TOP OF SCREEN ELEVATION <sup>(1)</sup> (feet M.S.L.)	SCREEN LENGTH (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION <sup>(1)</sup> (feet M.S.L.)
MW-6	7/27/1998				49.71	1241.26
(continued)	10/27/1998				49.99	1240.98
	1/25/1999				50.71	1240.26
	4/27/1999				51.18	1239.79
	8/11/1999				51.32	1239.65
	7/30/2003				46.98	1243.99
	11/21/2003				47.20	1243.77
	5/4/2004	1290.82 <sup>(4)</sup>			47.43	1243.39
	10/4/2005				50.08	1240.74
	8/9/2006				50.85	1239.97
MW-7	1/20/1997	1296.92	1243.92	15.00	54.47	1242.45
	4/3/1997				54.82	1242.10
	7/24/1997				54.19	1242.73
	4/27/1998				56.00	1240.92
	7/27/1998				55.79	1241.13
	10/29/1998				55.79	1241.13
	1/25/1999				56.73	1240.19
	4/27/1999				57.17	1239.75
	11/4/1999				57.39	1239.53
	7/30/2003				52.94	1243.98
	11/21/2003				53.16	1243.76
	5/4/2004				54.43	1242.49
	8/4/2004	1			54.65	1242.27
	10/4/2005	1			56.00	1240.92
	12/1/2005				56.38	1240.54
	4/12/2006				57.05	1239.87
	8/9/2006			· · ·	57.22	1239.70

# Summary of Groundwater and Well Elevations (continued) WisDOT - Former Norm's Mobil

### Sarona, Wisconsin

### WisDOT Project # 0651-50-00

WELL NUMBER	DATE	REFERENCE ELEVATION <sup>(1)</sup> (feet M.S.L.)	TOP OF SCREEN ELEVATION <sup>(1)</sup> (feet M.S.L.)	SCREEN LENGTH (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION <sup>(1)</sup> (feet M.S.L.)
MW-8	10/4/2005	1295.01	1248.50	15.00	54.05	1240.96
	12/1/2005				54.48	1240.53
	4/12/2006				55.16	1239.85
	8/9/2006				55.32	1239.69
MW-9	10/4/2005	1295.06	1248.50	15.00	54.06	1241.00
	12/1/2005				55.10	1239.96
	4/12/2006				55.34	1239.72
	8/9/2006				54.43	1240.63
RW-1	12/1/2005	1294.44	1249.40	25.00	53.93	1240.51
	8/9/2006				54.74	1239.70

Footnotes:

<sup>(1)</sup> In feet mean sea level (M.S.L.) from the top of well casing.

<sup>(2)</sup> Depth to free product was 54.33 feet on July 27, 1998.

<sup>(3)</sup> Depth to free product was 55.46 feet on January 25, 1999.

<sup>(1)</sup> The casing height was adjusted after the protective casing was repaired.

# Certification Statement Attachment I 9

I, <u>ROBETCT</u> <u>REARSON</u>, certify that the attached documents represent the WisDOT owned property (right-of-way) impacted by residual soil and groundwater contamination from the Former Norm's Mobil site (now southbound lanes of US Highway 53), in Sarona, Wisconsin. WDNR BRRTS #: 03-66-000344 Geographic coordinates: (meters/ WTM83/91) E 379410, N 583520

Poliat & Reargin

Robert Pearson, P.G. Hydrogeologist Wisconsin Department of Transportation (WisDOT)

# Pete Chase - RE: Notification of contamination in the right of way

From:	"TeBeest, Sharlene" <sharlene.tebeest@dot.state.wi.us></sharlene.tebeest@dot.state.wi.us>
То:	"'Pete Chase'" <pete.chase@rmtinc.com></pete.chase@rmtinc.com>
Date:	3/1/2005 5:33 PM
Subject:	RE: Notification of contamination in the right of way
CC:	"Pearson, Robert" <robert.pearson@dot.state.wi.us></robert.pearson@dot.state.wi.us>

### Thanks Pete.

I've received the notice for Teddy Bear Tap. Please keep a copy of this e-mail as documentation that WisDOT has been notified. No other confirmation of receipt will be sent.

Shar

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

-----Original Message-----From: Pete Chase [mailto:Pete.Chase@rmtinc.com] Sent: Tuesday, March 01, 2005 8:49 AM To: sharlene.tebeest@dot.state.wi.us Subject: Notification of contamination in the right of way

Hello Shar,

Attached is a notification of conamination in the right of way for the Former Norms Mobil (also known as the Teddy Bear Tap), USH 53, in Sarona. This is a non-PECFA WisDOT project that will be submitted for closure in the next few weeks. Please contact me if you have any questions.

Thanks, Pete Chase 608-662-5453

Outgoing messages, along with any attachments, are scanned for viruses prior to sending.

NOTICE-- This email may contain confidential and privileged information for the sole use of the intended recipient. Any review or distribution by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and delete all copies.

I 10 2/2

Notification of Contamination within the Right of Way

County: Washburn Highway: USH 53 Site Name: Former Norms Mobil (aka Teddy Bear Tap) Site Address: USH 53 @ Ripley Lake Road. Sarona, Wisconsin 54870 BRRTS Number:03-66-000344 PECFA Number: NA FID Number: 866071360

Owner's Name: Wis DOT Owner's Address: 4802 Sheboygan Ave, Madison, WI 53707-7965

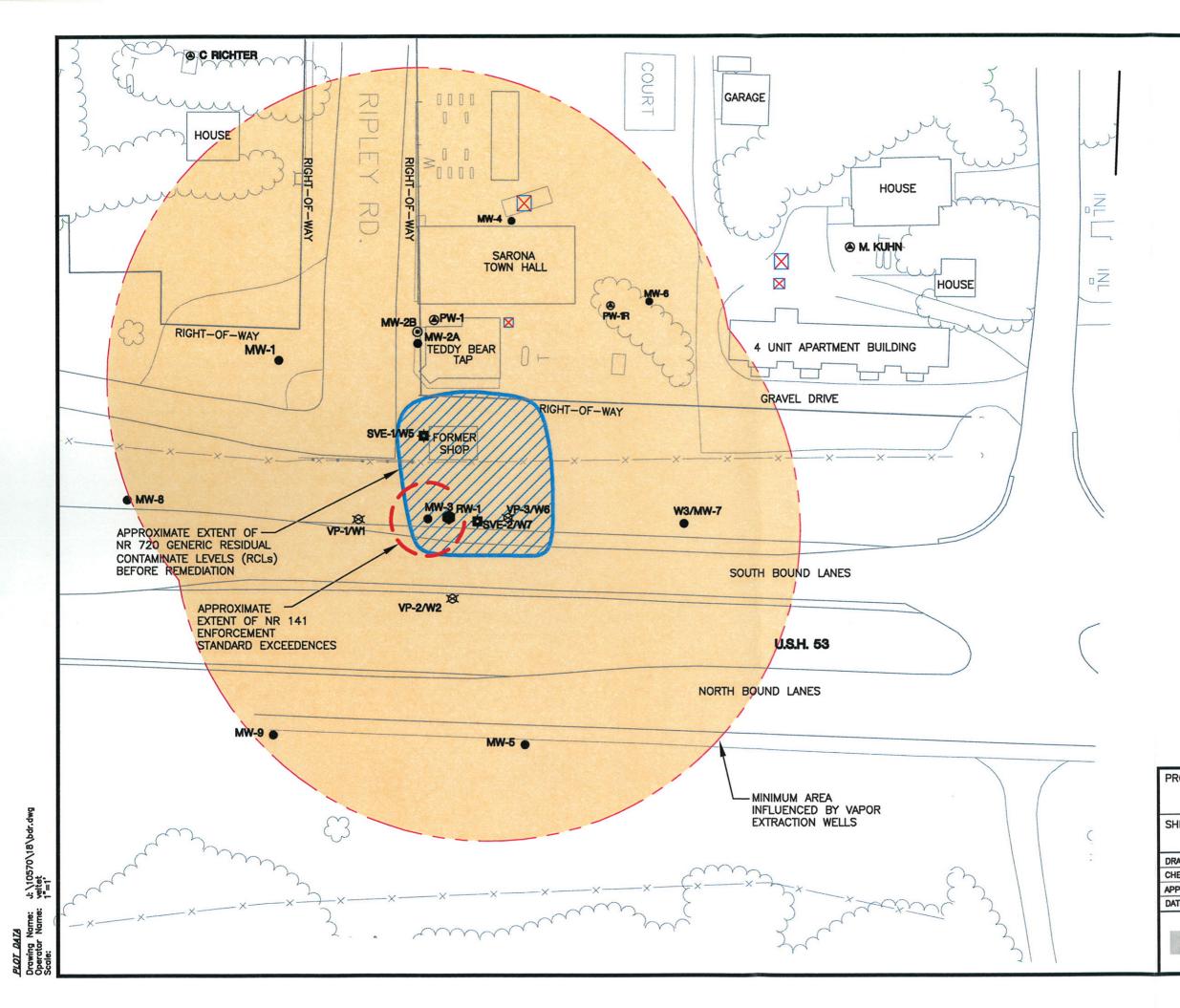
Consulting Firm: RMT, Inc. Consultant Contact: Pete Chase Consultant Address: 744 Heartland Trail, Madison, WI 53717 Consultant Phone, Fax and E-mail: (608)831-4444, 831-3334, pete.chase@rmtinc.com

Soil contamination? Yes Depth to contaminated soil: 8 Feet Vertical extent of contaminated soil: from 8 feet to 50 feet below ground surface Groundwater contamination? Yes Depth to water table: 50 feet

Describe the type(s) of contamination present: Petroleum (gasoline)

Brief summary of cleanup activity: sol vapor extraction, pump and treat, free product recovery

Attach a current plume map for groundwater contamination :Attached Attach a current plume map for soil contamination : Attached



LEGEND			
• MW-4	MONITORING WELL		
MW-2B	PIEZOMETER		
• W-4	SOIL BORING		
🕸 VP-2	VAPOR MONITORING WELL		
SVE-2	SOIL VAPOR EXTRACTION WELL		
PW	PRIVATE WATER SUPPLY WELL		
$\bowtie$	SEPTIC HOLDING TANK		
RW-1	RECOVERY WELL		
	MINIMUM AREA INFLUENCED BY VAPOR EXTRACTION WELLS		
	APPROXIMATE EXTENT OF NR 720 GENERIC RESIDUAL CONTAMINATE LEVELS (RCLs) BEFORE REMEDIATION		
()	APPROXIMATE EXTENT OF NR 141 ENFORCEMENT STANDARD EXCEEDENCES		
NOTES			
<ol> <li>BASEMAP SURVEYED &amp; DRAFTED BY CHRISTINA MARTIN WisDOT, NW REGION SUPERIOR 10/15/2007</li> </ol>			
0	50 100 SCALE: 1"=50'		
PROJECT: FORMER NORM'S MOBIL STATION SITE SARONA, WISCONSIN WISDOT PROJECT #0651-50-00			
SHEET TITLE: EXTENT OF SOIL AND GROUNWATER IMPACTS			

DRAWN BY: VELTET	SCALE:	PROJ. NO.	10570.18
CHECKED BY:	1"=50'	FILE NO. 10570	01801.DWG
APPROVED BY:	DATE PRINTED:	FIGURE CZ	
DATE: MAY 2008		FIGURE	
MARATERS, MINER, AND INCOMENDA		744 Heartland Trail Madison, WI 53717–1934 P.O. Box 8923 53708–8923	
	1	Phone: 608-831-4444 Fax: 608-831-3334	