

**Site Investigation
Work Plan and Preliminary
Remedial Action Plan**

**Clark Station
1020 Washington Street
Grafton, Wisconsin 53024
BRRTS# 03-46-003224
PECFA# 53024-1914-20**

Prepared For:

**Village of Grafton
860 Badger Circle
Grafton, WI 53024**

Prepared By:

**Konicek Environmental
Consulting, LLC
1032 S. Spring Street
Port Washington, WI
262-284-2557**

January 10, 2020

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NR 700 SUBMITTAL CERTIFICATIONS

"I, Greg Konicek, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

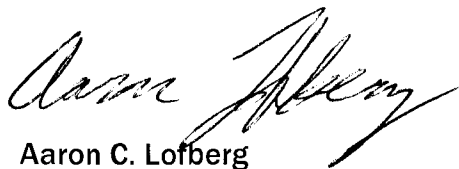


Signature

1-10-2020

Date

Konicek Environmental Consulting, LLC



Aaron C. Lofberg



Gregory A. Konicek

1.0 Introduction

This *Site Investigation (SI) Work Plan (WP) & Preliminary Remedial Action Plan (PRAP) Report* for Clark Station, 1020 Washington Street, Grafton, Wisconsin 53024 was prepared for and is submitted on behalf of the Village of Grafton by Konicek Environmental Consulting, LLC (KEC). This *WP* was prepared in accordance with NR 716.09 of the Wisconsin Administrative Code. This Report was prepared to address the Wisconsin Department of Natural Resources (WDNR) Closure Denial Letter dated June 5, 2003 for the Bureau of Remediation and Redevelopment Tracking System (BRRTS) 03-46-003224 Open-Leaking Underground Storage Tank (LUST) Case File.

1.1 Site Information

1020 Washington Street
Grafton, Wisconsin 53024
BRRTS# 03-46-003224
PECFA# 53024-1914-20
Ozaukee County: NW 1/4 of the NE 1/4 of Sec 24, T10N, R21E
The Site Location Map is included in Attachment 1.

1.2 Responsible Party Information

Village of Grafton
860 Badger Circle
Grafton, WI 53024
Contact: Jessica Wolff
Email: jwolff@village.grafton.wi.us
Phone: (262) 375-5303

1.3 Consultant Information

Konicek Environmental Consulting LLC
1032 S. Spring Street
Port Washington, WI 53074
Contact: Greg Konicek
Email: gkonicek@msn.com
Phone: (262) 284-2557
Fax: (262) 284-1728

2.0 Objective

The objective of the SI is to define the degree and extent of residual contamination remaining after the reported Tank Site Assessment and Removal on May 23rd 2018 as well as address additional work requested in the WDNR Letter dated June 5, 2003. It is the understanding of KEC that SI work associated with BRRTS# 03-46-003224 WDNR Case File is subject to potential Petroleum Environmental Cleanup Fund Award (PECFA) reimbursement for the work performed to date, as well as the work proposed. The objective will be met through the performance of SI activities consisting of, but not limited to: advancing soil probes, collecting and analyzing soil

samples, soil excavation, and collecting and analyzing groundwater samples from the existing groundwater monitoring wells (GMMWs). The SI will be conducted in accordance with Chapter NR 716 of the Wisconsin Administrative Code.

The soil sample results will be compared to residual contaminant levels (RCLs) as published in Chapters NR 720 of the Wisconsin Administrative Code (WAC) and Interim Guidelines. Groundwater sample results will be compared to Chapter NR 140 WAC groundwater quality standards.

3.0 Background Information

3.1 Historic Use

The site formerly operated as a vehicle fueling station with convenience store accommodations. Based on previously reported information, the former underground storage tanks (USTs) consisted of three tanks with 7,500-gallon unleaded gasoline contents. The USTs were reportedly installed on June 1, 1969 and lined on August 1, 1989. The site is currently inactive, and the USTs were reportedly removed on May 23rd 2018 by RCP Petroleum as the removal contractor and OM Enterprises Inc. performed the Tank System-Site Assessment (TSSA).

3.2 Summary of Previous SI Work

Site contamination associated with BRRS# 03-46-003224 was reportedly discovered by BT² Inc. (BT²) in 1993 the collection of hand-auger soil samples (H1 and H2) for disposal characterization for the installation of new product piping and vapor recovery system. Based on the analytical results, a release was reported to the WDNR by BT².

Since the WDNR notification, SI work was previously performed by others (BT², ATC Associates Inc., and Ecova Corporation) and is summarized as follows:

- Confirmation soil samples (S4 and S6) in the vicinity of the former UST cavity and former tank piping, advancement of four soil borings (B1 through B4), and the advancement of two Geoprobe borings (GP1 and GP2) on the former Clark Station site. The samples and borings were performed circa May - August 1993.
- Advancement and installation of six groundwater monitoring wells (MW1 through MW6). MW1 thru MW4 were reportedly advanced on the former Clark Station site and MW5 and MW6 were advanced on the eastern adjacent property. The wells were performed circa October 1993 - January 1994.
- Groundwater monitoring well (MW7), formerly located on the northern adjacent property, was sampled along with MW1 through MW6 on May 25, 2000. MW7 was reportedly abandoned on May 26, 2000 by Kitson

Environmental Services Inc. due to a real estate transaction on the northern adjacent property.

- ATC submitted a SI/Closure Request Report to the WDNR dated December 31, 2002 requesting Case Closure based on the work performed. The WDNR denied closure in a letter dated June 5, 2003.

Based on review of the WDNR letter dated June 5th 2003 and information previously submitted by OM Enterprises Inc., a piezometer (PZ1) was reportedly installed in the northeastern portion of the former Clark Station site. Based on review of the online BRRTS page for the Clark Station site, a TSSA was performed by OM Enterprises Inc. on May 23rd 2018 with RCP Petroleum as the tank removal contractor. During the TSSA, numerous soil samples were reportedly collected and submitted for laboratory analysis of Petroleum Volatile Organic Compounds (PVOCs) + Naphthalene.

Select Diagrams from the TSSA Report and ATC SI Report are included in Attachment 2.

KEC reviewed the all the data performed by others and has marked NR 720 RCL impacts (based on current standards) on the Proposed Sample Location Map. In addition, KEC tabulated data from the TSSA Report and compared to current NR 720 RCL standards.

The Proposed Sample Location Map is included in Attachment 1. Tabulated analytical data is included in Attachment 3.

4.0 Physiologic and Geologic Setting

4.1 Topography

Based on review of the online WDNR Surface Water Data Viewer, the general topography of the site area appears to slope east/southeast of the site towards the Milwaukee River.

4.2 Hydrologic Features

Based on review of the SI/Closure Request Report dated December 31, 2002 and performed by ATC, groundwater depth variations in during the June 2001 sampling event varied from 5.35 to 5.70 feet reportedly measured from the top of the PVC. Groundwater elevations reportedly varied from 91.37 to 93.62 feet during the June 2001 sampling event.

Tabulated Groundwater Elevations performed by others is included in Attachment 3.

4.3 Soils

Based on review of the SI/Closure Request Report dated December 31, 2002 and performed by ATC, soils encountered during SI activities generally consisted of silty clay to silty sand overlying sand and gravel. The deepest depth explored during the SI activities was reportedly 13.5 feet below ground surface (bgs). Fill soils were identified in the vicinity of the former tank cavity.

4.4 Bedrock Geology

Based on review of the SI/Closure Request Report dated December 31, 2002 and performed by ATC, bedrock in the site area consists of Paleozoic-aged dolomite.

4.5 Potential Receptors

Prior to any subsurface exploration, KEC will contact Diggers Hotline to mark utilities on the property. In previous work performed, utility lines were reportedly noted to be located along the southern and eastern borders of the site (likely within the Washington Street and 11th Avenue right of ways (ROWs)). KEC will evaluate the utility and residual contamination during the SI and determine if utilities are acting as migration pathways for contaminants.

5.0 Preliminary Remedial Action Plan

Based on review of the work performed to date, KEC anticipates the performance of a "hot-spot" excavation of residual PVOC soil impacts, volume of soil excavation of the previously identified "hot-spot" areas is estimated at 400 yd³. KEC proposes to perform additional soil probes to further define the degree and extent of residual PVOC soil impacts and determine an approximate area for excavation. Based on review of the work performed to date, the depth to groundwater on-site has varied from 4-6 feet bgs throughout the course of the previous SI work performed. As such, it is anticipated that PVOC-impacted groundwater will be encountered during the proposed soil excavation and may hinder the final depth of soil excavation. If PVOC-impacted groundwater is encountered, the groundwater will be pumped out of the excavation pit and discharged into a holding tank for proper disposal.

6.0 Field Investigation

6.1 Investigation Techniques

6.1.1 Soil Investigation

KEC proposes to advance nine soil probes (SP-1 thru SP-9) to approximately 15 feet bgs utilizing a direct push Geoprobe unit. Soil probes will be properly abandoned in accordance with NR 141 and abandonment forms (WDNR Form 3300-5B) will be completed.

6.1.2 Groundwater Investigation

The groundwater investigation is proposed to consist of 4 consecutive quarterly groundwater sampling events of the existing GMMWs as well as the collection of one groundwater sample from each of the proposed soil probes (SP-1 thru SP-9). The current status of the existing wells performed by others is unknown.

To measure the well volume, the depth to the static water level and to the bottom of the well will be measured from the survey reference point (the highest point on the well casing). The water level meter will be decontaminated between measurements. Well volume will be calculated using the depth to water, well depth and well radius.

6.2 Sampling Methods to Be Used

6.2.1 Soil

It is anticipated that one to two soil samples from each sample location will be collected and submitted for PVOC + Naphthalene laboratory analysis. The soil samples are anticipated to be collected from the soil-groundwater interface as well as the 0-4 foot direct contact (DC) zone or from a greater depth depending upon the site conditions encountered. A boring log will be maintained for each probe location.

6.2.2 Groundwater

The existing GMMWs are proposed to be sampled for 4 consecutive quarterly groundwater sampling events. Groundwater samples will be obtained in accordance with NR 700 procedures and will be submitted for PVOC + Naphthalene laboratory analysis. One groundwater sample is scheduled to be collected from each of the proposed soil probes (SP-1 thru SP-9). If soil conditions prevent the collection of groundwater, a soil sample will be collected from the soil-groundwater interface.

Prior to sampling, each of the existing GMMWs will be purged of at least three well volumes. Following the well purging process, groundwater samples will be collected with a disposable bailer. All samples requiring preservation will be preserved in the field. If free product is encountered, the product level will be recorded, the product will be removed.

6.3 Quality Control/Quality Assurance

Soil and groundwater samples will be stored on ice and delivered to the lab under standard Chain of Custody procedures within acceptable holding times. A quality control trip blank supplied by the laboratory will be submitted for analysis during each round of sampling.

6.4 Decontamination Procedures

The down-hole drilling equipment will be decontaminated prior to mobilization and between boring locations using a high-pressure steam cleaner. The split spoon soil sampler and soil probe sampler will be decontaminated between each use. Decontamination will consist of tap water and detergent wash, tap water rinse and a distilled water rinse. Decontamination water will not be contained.

Well-dedicated disposable bailers will be used for each sampling event. The water level meter will be decontaminated with a detergent wash, tap water rinse and distilled water rinse between each well.

6.5 Investigative Wastes

Investigative waste will be stored in labeled 55-gallon drums. The drums will be stored on-site for later off-site management at an appropriately licensed facility.

7.0 Schedule

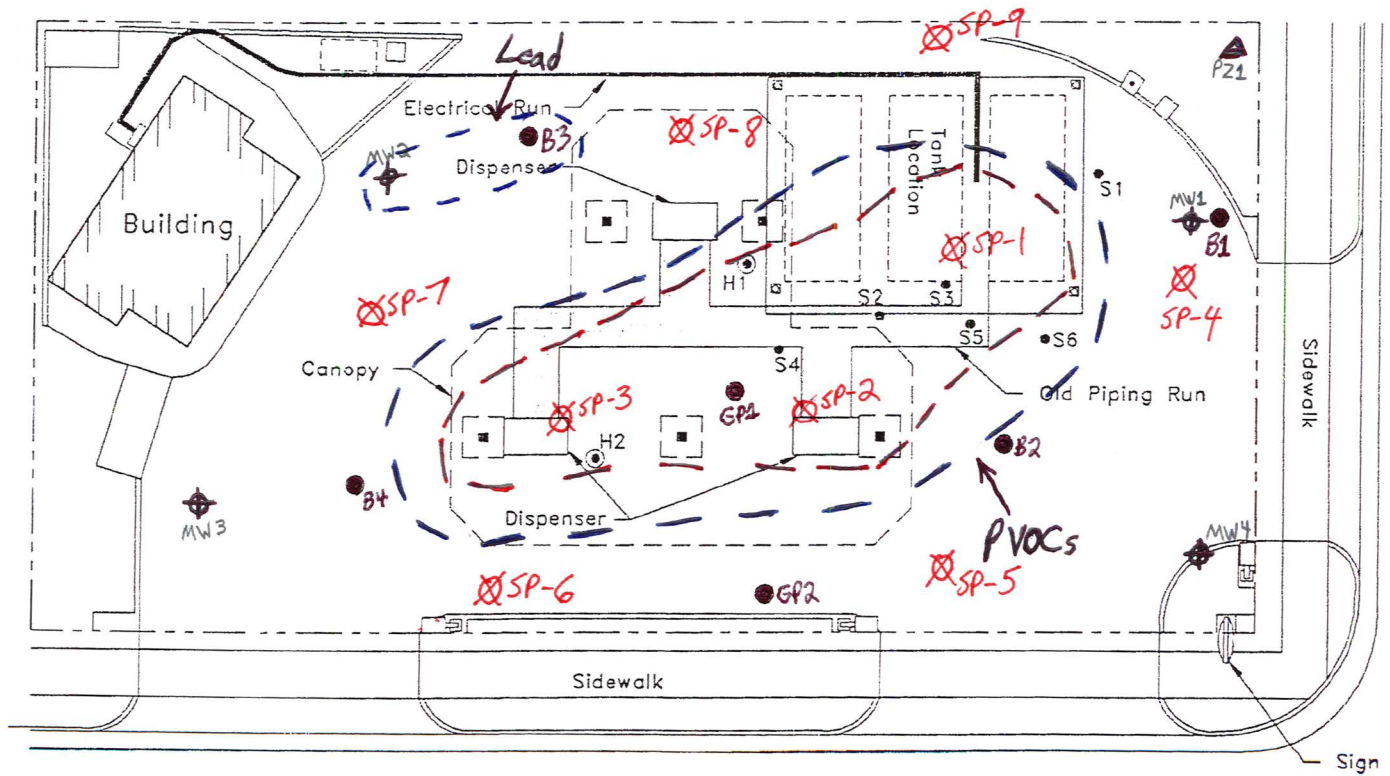
The outlined scope of services are scheduled to begin after WDNR approval of the proposed work plan with the performance of the proposed work. A SI report documenting the procedures and results of the investigation will be submitted at the completion of the investigation.

The completed SI Report will also make recommendations for further remedial action and/or Case Closure.

Attachment-1

Proposed Sample Location Map

NR 720 impacts depicted are based on comparison to current NR 720 RCL standards.



--- NR 720 GW Protection impacts
 --- NR 720 DC impacts



SCALE: 1" = 20'

Key

●, ○, ⊕, Δ - soil probes, borings, GWMWs, soil samples, and piezometer performed by others

⊗ - proposed soil probe location

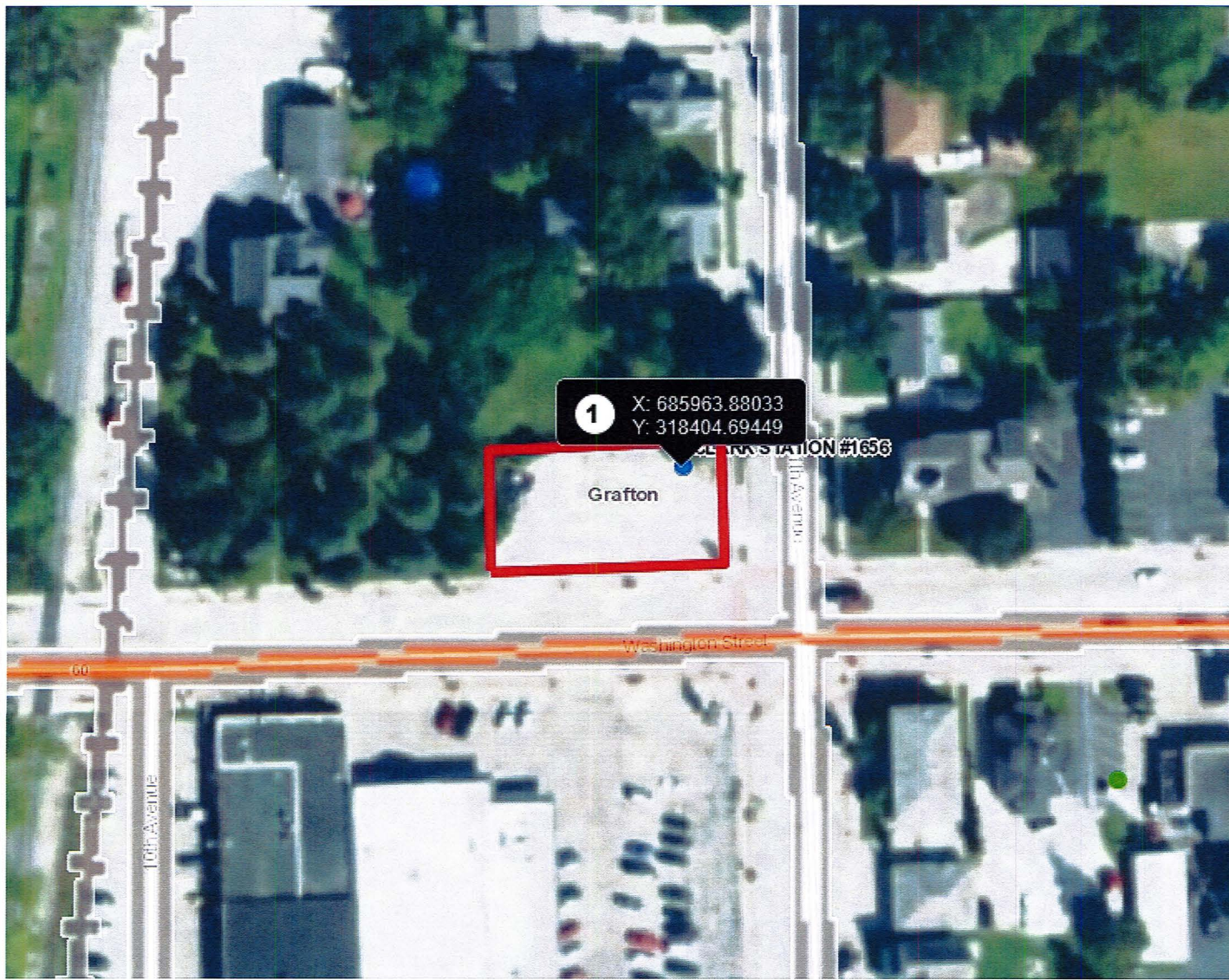
Project No. 605
 Drawn By: KP
 site-map.dwg
 6/30/93

Clark Oil Station 1656 - Proposed Soil Boring Location Map

BT², Inc.



Site Location Map



Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site



NAD_1983_HARN_Wisconsin_TM

1: 990

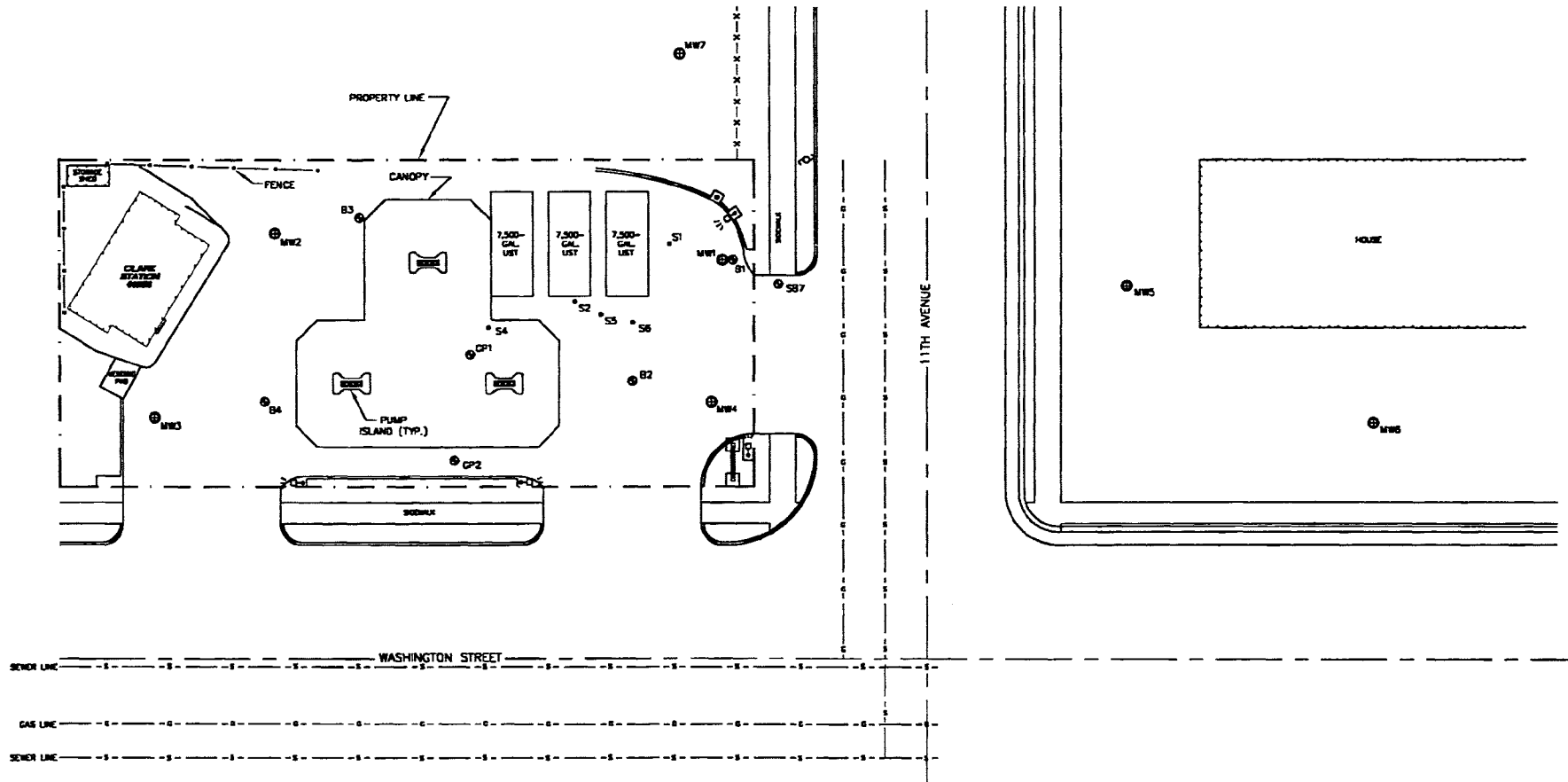


DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/org/legal/>

Note: Not all sites are mapped.

Notes

Attachment-2



- LEGEND**
- ⊙ SOIL BORING
 - ⊕ MONITORING WELL
 - SOIL SAMPLE

0 10 20
SCALE, FT

NOTE: SCALE AND ALL LOCATIONS ARE APPROXIMATE

SITE PLAN

CLARK STATION #1656
1020 WASHINGTON STREET
GRAFTON, WISCONSIN

DATE: 12/17/02 FILE: 28.75096.2848

DRAWN BY: BK FIGURE NO.2

CAD FILE: SITEPLAN

350 Business Park Drive ATC
Sun Prairie, Wisconsin 53590
Ph: (608) 825-2171 • Fax: (608) 825-0117

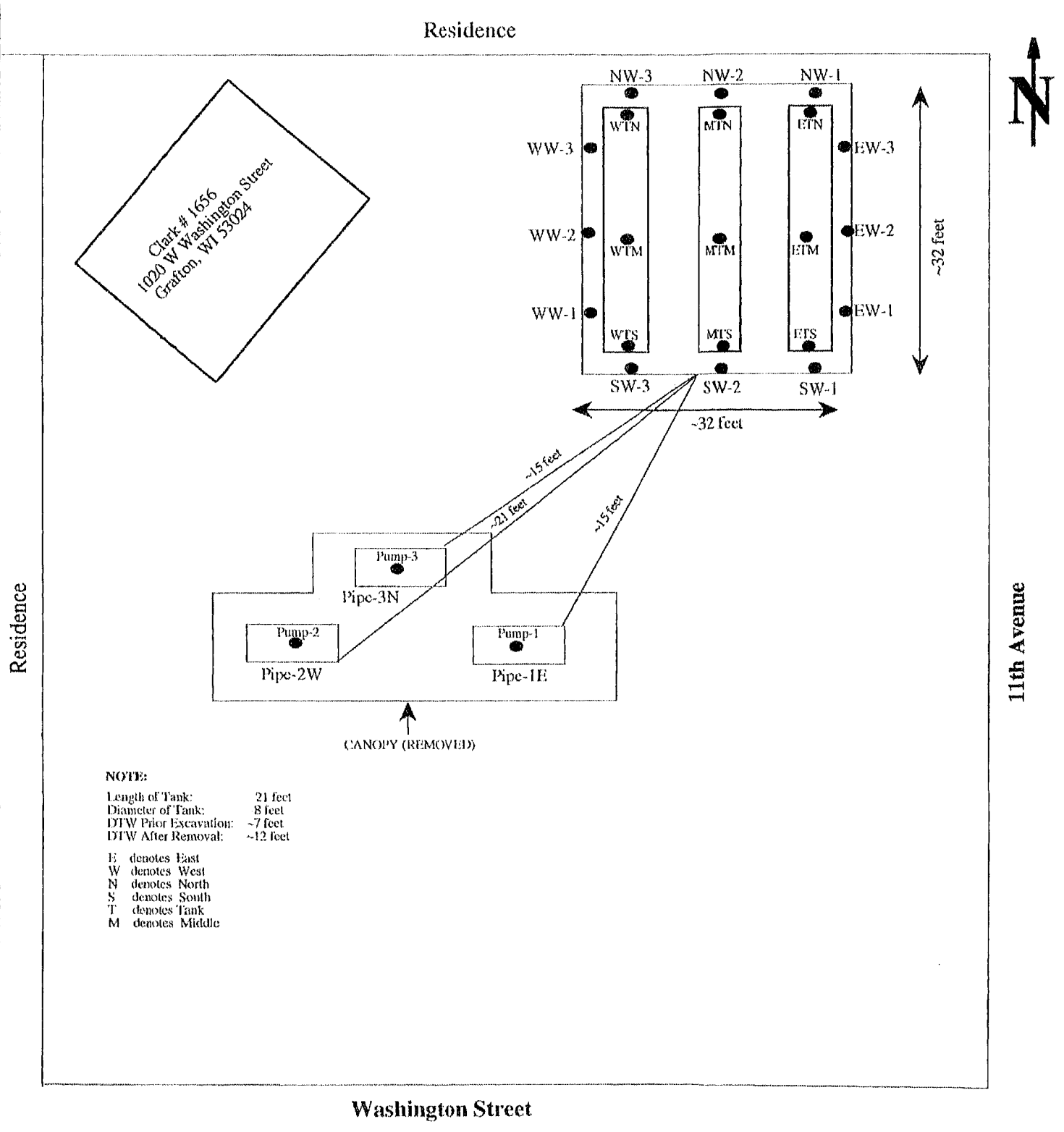


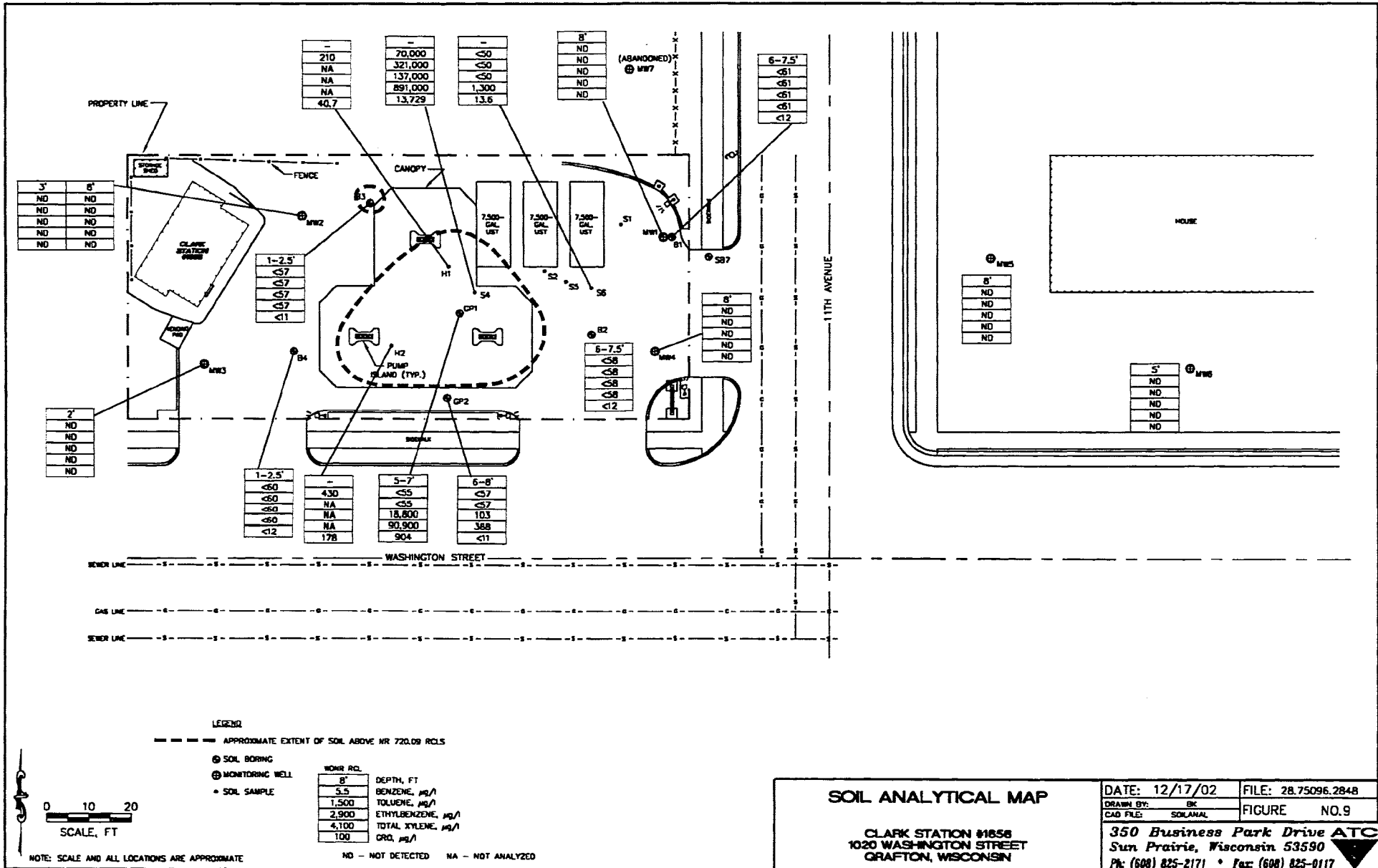


Figure 1: Site Layout and TSSA Soil Sampling Locations

Site Clark Station # 1656 1020 W. Washington Street Grafton, WI 53024 BRRTS # 03-46-003224 Simplified Bid # 63509	State Contact WDNR P. O. Box 7921 Madison, WI 53707	Tank Remover RCT Petroleum, Inc. 3845 W Forest Home Avenue, Milwaukee, WI 53215	Tank-System Site Assessor OM Enterprises, Inc. 124 W Scott Street Fond du Lac, WI 54935 TSSA Certification # 401225 Tank Specialty Firm # 468219	SCALE  NOT TO SCALE	Project # 2069-A Date 7-5-2018	Legend  Soil Sampling Location
---	---	---	--	--	---	---

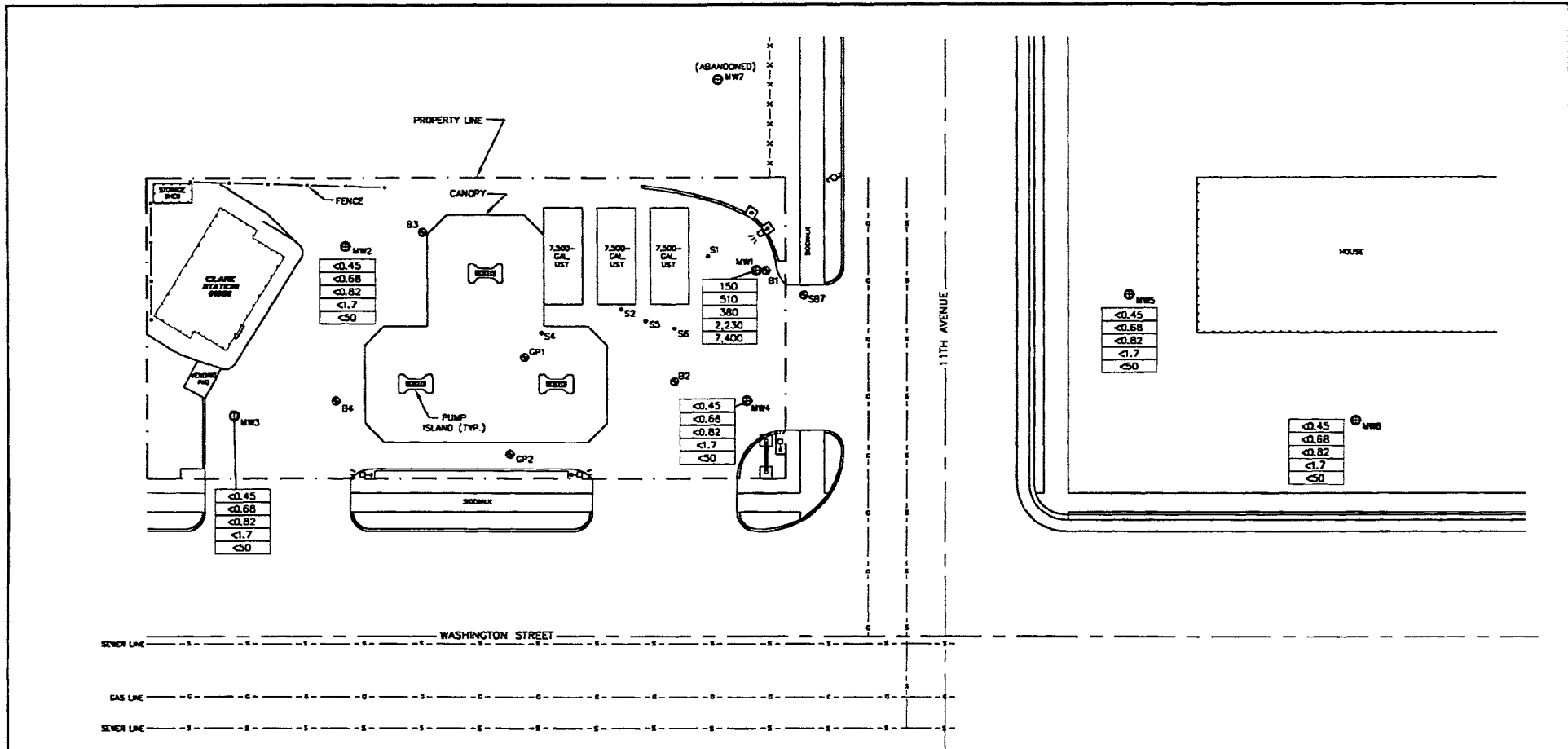


SOIL ANALYTICAL MAP

CLARK STATION #1658
1020 WASHINGTON STREET
GRAFTON, WISCONSIN

DATE: 12/17/02	FILE: 28.75096.2848
DRAWN BY: BK	FIGURE NO.9
CAD FILE: SOLANAL	

350 Business Park Drive ATC
Sun Prairie, Wisconsin 53590
Ph: (608) 825-2171 • Fax: (608) 825-0117



LEGEND
 ⊕ SOIL BORING
 ⊕ MONITORING WELL
 • SOIL SAMPLE

MOHR ES/PIAL	BENZENE, $\mu\text{g}/\text{l}$
5/0.5	TOLUENE, $\mu\text{g}/\text{l}$
1,000/200	ETHYLBENZENE, $\mu\text{g}/\text{l}$
700/140	TOTAL XYLENE, $\mu\text{g}/\text{l}$
10,000/1,000	GRD, $\mu\text{g}/\text{l}$
-	

0 10 20
 SCALE, FT

NOTE: SCALE AND ALL LOCATIONS ARE APPROXIMATE

**GROUNDWATER ANALYTICAL
 MAP (6/19/01)**
 CLARK STATION #1656
 1020 WASHINGTON STREET
 GRAFTON, WISCONSIN

DATE: 12/17/02	FILE: 28.75096.2848
DRAWN BY: BK	FIGURE NO.10
CAD FILE: CARR1901	
350 Business Park Drive ATC Sun Prairie, Wisconsin 53590 Ph: (608) 825-2171 • Fax: (608) 825-0117	

Attachment-3

TSSA Data Table
Clark Station
BRRTS#: 03-46-003224
1020 Washington Street, Grafton, WI 53024

Sample ID:	NR 720.10	NR 720.12							EW-1	EW-2	EW-3	WW-1	WW-2	WW-3	NW-1	NW-2	NW-3	SW-1	SW-2	SW-3	PIPE-1E	PIPE-2W	PIPE-3N	ETS	ETM	ETN	MTS	MTM	MTN	WTS	WTM	WTN
Sample Depth (ft BGS)	EPA RSL	EPA RSL							6'	6'	6'	8'	8'	8'	7'	7'	7'	7'	7'	7'	5'	5'	5'	15'	15'	15'	15'	15'	15'	15'	15'	
Sample Date:	RCL	Non-Industrial RCLs			Industrial RCLs				5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	5/23/18	
Soil Type																																
Lab Reported Parameters	GW Protection (DF=2)	NC	C	DC	BTV	NC	C	DC																								
VOCs (ug/kg)																																
Benzene	5.1	106000	1600	1600	---	587000	7070	7070	<25	<25	<25	<25	<25	<25	<25	<25	<25	*2270*	1470	*2130*	*1930*	*15000*	<25	<25	*4100*	<25	<25	*3100*	<25	40	83	<25
Ethylbenzene	1570	4080000	8020	8020	---	27400000	35400	35400	290	289	285	304	315	200	251	201	312	*25300*	*14800*	*26900*	*24100*	*66000*	141	105	3300	101	111	1070	241	122	126	104
Methyl-tert-butyl ether (MTBE)	27	22100000	63800	63800	---	93000000	282000	282000	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<1250	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Naphthalene	658.2	178000	5520	5520	---	830000	24100	24100	198	160	125	360	340	218	53 "J"	52 "J"	112	*34000*	*23100*	*27200*	*30500*	*81000*	99	63 "J"	*7100*	149	54 "J"	1350	64 "J"	144	550	107
Toluene	1107.2	5240000	---	818000	---	55300000	---	818000	40 "J"	42	51	44	45	30.5 "J"	54	56	60	2810	1870	3800	2710	7000	27.7 "J"	<25	770	<25	<25	350	258	520	400	330
1,2,4-Trimethylbenzene	---	373000	---	219000	---	2390000	---	219000	1070	880	780	1180	1160	810	340	250	750	171000	97000	143000	144000	*360000*	480	309	108000	320	253	8300	440	550	350	390
1,3,5-Trimethylbenzene	---	339000	---	182000	---	2060000	---	182000	350	278	242	360	350	262	118	83	247	58000	33000	48000	48000	126000	175	106	30100	105	87	810	159	177	51	122
Trimethylbenzenes (total)	1382.1 (1,2,4 and 1,3,5 combined)	---	---	---	---	---	---	---	1420	1158	1022	1540	1510	1072	458	333	997	229000	130000	191000	192000	486000	655	415	138100	425	340	9110	599	727	401	512
m&p-Xylene	---	1581000	---	778000	---	6890000	---	778000	1350	1330	1330	1480	1530	980	1040	810	1440	131000	76000	140000	124000	303000	640	470	12200	470	480	2290	1080	550	209	470
O-Xylene	---	915000	---	434000	---	4010000	---	434000	610	620	600	710	710	460	440	340	610	47000	27900	50000	48000	127000	307	221	3300	249	222	1090	440	297	78	237
Xylenes (total)	3960 (m,o, and p combined)	818000	---	260000	---	3570000	---	260000	1960	1950	1930	2190	2240	1440	1480	1150	2050	178000	103900	190000	172000	*430000*	947	691	15500	719	702	3380	1520	847	287	707

Notes:
 ug/kg = micrograms per kilogram
 mg/kg = milligrams per kilogram
 --- = Not Analyzed OR No Standard Established
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit detection limit
 Exceedences (Non-Industrial):
Bold = exceeds NR 720.10 EPA RSL RCL GW Protection (DF=2) value
Italicized = exceeds NR 720.12 EPA RSL RCL NC value
Underline = exceeds NR 720.12 RSL SCL C value
 value = exceeds NR 720.12 RSL RCL Not to Exceed D-C value
 BTV - Background Threshold Value
 PAHs - Polycyclic Aromatic Hydrocarbons

PCBs - Polychlorinated Biphenyls
 VOCs - Volatile Organic Compounds
Bordered cells exceed the NR 720

S - Saturated Soil Sample
U - Unsaturated Soil Sample

The samples depicted were collected by OM Enterprises Inc.

Exceedences (Industrial):
Italicized = exceeds NR 720.12 EPA RSL RCL NC value
Underline = exceeds NR 720.12 RSL SCL C value
 value = exceeds NR 720.12 RSL RCL Not to Exceed D-C value

Table 1
Soil Results Summary
 Clark Station No. 1656
 1020 Washington Street
 Grafton, Wisconsin
 ATC Project No. 28.75096.2848

*Highest
PID*

Sample ID	Sample Date	Depth (ft bgs)	PID (ppm eq)	Benzene	Toluene	Ethylbenzene	Total xylenes	1,2,4 - TMB	1,3,5 - TMB	MtBE	GRO	Lead
H1	3/31/93	---	---	210	NA	NA	NA	NA	NA	NA	40.7	58.5
H2	3/31/93	---	---	430	NA	NA	NA	NA	NA	NA	178	7.32
S4 old piping	5/5/93	---	---	70,000	321,000	137,000	891,000	<7.3	570,000	248,000	13,729	691
S6 SE corner of UST exevation	5/5/93	---	---	<50	<50	<50	1,300	<50	1,600	600	13.6	37.4
B1-S3	7/13/93	6-7.5	300	<61	<61	<61	<61	<61	<61	<3,030	<12	11.6
B2-S3	7/13/93	6-7.5	150	<58	<58	<58	<58	<58	<58	<2,910	<12	11.6
B3-S1	7/13/93	1-2.5	150	<57	<57	<57	<57	<57	<57	<2,830	<11	98.9
B4-S1	7/14/93	1-2.5	70	<60	<60	<60	<60	<60	<60	<3,020	<12	19.8
GP1-S1	8/24/93	5-7	500	<55	<55	18,800	90,900	78,700	26,600	<2,770	904	15.6
GP2-S2	8/24/93	6-8	0	<57	<57	103	388	388	137	<2,850	<11	13.8
MW1-S3	10/7/93	8	10	ND	ND	ND	ND	ND	ND	ND	ND	11.3
MW2-S1	10/7/93	3	10	ND	ND	ND	ND	ND	ND	ND	ND	33.8
MW2-S3	10/7/93	8	0	ND	ND	ND	ND	ND	ND	ND	ND	16.1
MW3-S1	10/7/93	2	0	ND	ND	ND	ND	ND	ND	ND	ND	10.1
MW4-S3	10/8/93	8	0	ND	ND	ND	ND	ND	ND	ND	ND	10.0
MW5-S3	1/3/94	8	0	ND	ND	ND	ND	ND	ND	ND	ND	11.7
MW6-S2	1/3/94	5	1	ND	ND	ND	ND	ND	ND	ND	ND	11.3
NR 720.09 RCLs				5.5	1,500	2,900	4,100	---	---	---	100	50
NR 746.06 Table 1 (free product indicator)				8,500	38,000	4,600	42,000	---	---	---	---	---
NR 746.06 Table 2 (direct contact standard)				1,100	---	---	---	---	---	---	---	---

*odor
10' 500
odor
odor
no odor
10' 35*

*20 213'
3 212'*

Notes:

- 1) ft bgs = feet below ground surface; ppm eq = parts per million equivalent.
- 2) PVOC concentrations in µg/kg; GRO and total lead concentrations in mg/kg; NA: Not analyzed for analyte.
- 3) MtBE: Methyl t-butyl Ether; Eb: Ethylbenzene; TMB: Trimethylbenzene; GRO: Gasoline Range Organics.
- 4) NR 720.09 RCsL: Wisconsin Department of Natural Resources' Residual Contaminant Levels; "---": not established.
- 5) Data with asterisk indicates sample was taken at or below the historic measured high water table, based on monitoring data.
- 6) Samples S7, S8, and S9 not field screened due to a malfunctioning PID and S5 field screened with PID.

Table 2
Groundwater Analytical Results Summary
Clark Station No. 1656
1020 Washington Street
Grafton, Wisconsin
ATC Project No. 2875096.2832

Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MtBE	Total TMBs	tert-Butylbenzene	sec-Butylbenzene	n-Butylbenzene	Isopropylbenzene	Methylene Chloride	Naphthalene	n-Propylbenzene	GRO	Dissolved Lead	Water Level
MW-1 Top of Well Screen: 91.77 Length of Well Screen: 4.3 feet <i>Top Screen 87.47</i>																
11/1/93	1.600	4.500	920	9,000	NA	<1	260	1,200	<1	<1	<1	640	130	41,000	<3.0	89.07
5/25/00	23	520	140	1,590	<1.6	1,073	<1.6	<1.4	8.9	11	<1.8	170	29	3,000	<0.063	92.84 *
3/26/01	3.8	0.48 Q	4.1	3.9 Q	<0.36	70	NA	NA	NA	NA	NA	3.6	NA	440	<0.18	91.78 *
6/19/01	150	510	380	2,230	5.2 Q	920	NA	NA	NA	NA	NA	190	NA	7,400	<0.39	91.76
MW-2 Top of Well Screen: 92.95 Length of Well Screen: 4.3 feet																
11/1/93	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<100	<3.0	---
5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	<0.36	<0.35	<0.76	<50	<0.063	93.99 *
3/26/01	<0.35	<0.38	<0.37	<0.76	<0.36	<0.37	NA	NA	NA	NA	NA	<0.44	NA	<50	<0.18	93.15 *
6/19/01	<0.45	<0.68	<0.82	<1.7	<0.43	<0.94	NA	NA	NA	NA	NA	<0.89	NA	<50	0.79	93.62 *
MW-3 Top of Well Screen: 92.26 Length of Well Screen: 4.3 feet																
11/1/93	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<100	<3.0	---
5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	<0.36	<0.35	<0.76	<50	0.07	93.73 *
3/26/01	<0.35	<0.38	<0.37	<0.76	<0.36	<0.37	NA	NA	NA	NA	NA	<0.44	NA	<50	<0.18	94.21 *
6/19/01	<0.45	<0.68	<0.82	<1.7	<0.43	<0.94	NA	NA	NA	NA	NA	<0.89	NA	<50	<0.39	93.06 *
MW-4 Top of Well Screen: 92.19 Length of Well Screen: 4.3 feet																
11/1/93	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<100	<3.0	---
5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	<0.36	<0.35	<0.76	<50	<0.063	92.66 *
3/26/01	<0.35	<0.38	<0.37	<0.76	<0.36	<0.37	NA	NA	NA	NA	NA	<0.44	NA	<50	<0.18	91.77
6/19/01	<0.45	<0.68	<0.82	<1.7	<0.43	<0.94	NA	NA	NA	NA	NA	<0.89	NA	<50	<0.39	91.85
MW-5 Top of Well Screen: 90.21 Length of Well Screen: 5.9 feet																
1/12/94	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<3.0	---
5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	<0.36	<0.35	<0.76	<50	<0.063	91.88 *
3/26/01	<0.35	<0.38	<0.37	<0.76	<0.36	<0.37	NA	NA	NA	NA	NA	<0.44	NA	<50	<0.18	90.98 *
6/19/01	<0.45	<0.68	<0.82	<1.7	<0.43	<0.94	NA	NA	NA	NA	NA	<0.89	NA	<50	<0.39	91.64 *
MW-6 Top of Well Screen: 90.62 Length of Well Screen: 5.9 feet																
1/12/94	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<3.0	---
5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	<0.36	<0.35	<0.76	<50	<0.063	91.45 *
3/26/01	<0.35	<0.38	<0.37	<0.76	<0.36	<0.37	NA	NA	NA	NA	NA	<0.44	NA	<50	<0.18	90.72 *
6/19/01	<0.45	<0.68	<0.82	<1.7	<0.43	<0.94	NA	NA	NA	NA	NA	<0.89	NA	<50	<0.39	91.37 *
GF1-W1 Top of Well Screen: NA Length of Well Screen: NA																
8/24/93	3.0	18.0	2.0	14.0	<50	2.0	2.0	<1	<1	<1	81	<1	<1	230	100	---
MW-7 Top of Well Screen: 92.35 Length of Well Screen: 7.0 feet																
5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	<0.36	<0.35	<0.76	<50	<0.063	92.91 *
NR 140 ES	5	1,000	700	10,000	60	480	---	---	---	---	5	40	---	---	15	---
NR 140 PAL	0.5	200	140	1,000	12	96	---	---	---	---	0.5	8	---	---	1.5	---

- Notes:
- 1) NA = Not analyzed for parameter, MtBE = Methyl tert-Butyl Ether, TMBs = 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene; GRO = Gasoline Range Organics; DRO = Diesel Range Organics.
 - 2) NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard and NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventative Action Limit.
 - 3) Concentrations in µg/l unless noted.
 - 4) Q = Analyte detected between Limit of Detection and Limit of Quantitation.
 - 5) Asterisk indicates water table well screen submerged below water table.

Table 2, continued
 Groundwater Analytical Results Summary
 Clark Station No. 1656
 1020 Washington Street
 Crafton, Wisconsin
 ATC Project No. 28.75096.2832

DUP	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MtBE	Total TMBs	tert-Butylbenzene	sec-Butylbenzene	n-Butylbenzene	Isopropylbenzene	Methylene Chloride	Naphthalene	n-Propylbenzene	GRO	Dissolved Lead
MW-1	11/1/93	1,500	4,200	680	8,300	NA	<1	<1	240	540	<1	<1	500	120	NA	NA
MW-5	5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	<0.36	<0.35	<0.76	<50	<0.063
MW-1	3/26/01	3.8	0.42 Q	3.8	3.8 Q	66.46	<0.37	NA	NA	NA	NA	NA	3.8	NA	420	<0.18
MW-1	6/19/01	270	920	720	3,900	8.4 Q	1,520	NA	NA	NA	NA	NA	320	NA	12,000	<0.39
Trip Blank																
	11/1/93	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
	5/25/00	<0.27	<0.27	<0.32	<0.43	<0.32	<0.27	<0.32	<0.29	<0.29	<0.26	3.2	<0.35	<0.76	<50	NA
	3/26/01	<0.35	<0.38	<0.37	<0.76	<0.36	<0.37	NA	NA	NA	NA	NA	<0.44	NA	<50	NA
	6/19/01	<0.45	<0.68	<0.82	<1.7	<0.43	<0.94	NA	NA	NA	NA	NA	<0.89	NA	<50	NA
NR 140 ES		5	1,000	700	10,000	60	480	—	—	—	—	5	40	—	—	15
NR 140 PAL		0.5	200	140	1,000	22	96	—	—	—	—	0.5	8	—	—	1.5

- Notes:
- 1) NA = Not analyzed for parameter; MtBE = Methyl tert-Butyl Ether; TMBs = 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene; GRO = Gasoline Range Organics; DRO = Diesel Range Organics.
 - 2) NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard and NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventative Action Limit.
 - 3) Concentrations in µg/l unless noted.
 - 4) Q = Analyte detected between Limit of Detection and Limit of Quantitation.
 - 5) Asterisk indicates water table well screen submerged below water table.

Table 3 Groundwater Elevation Calculations Clark Station No. 1656 1020 Washington Street Grafton, Wisconsin ATC Project No. 28.75096.2848		
MW-1		
Top of Casing Elevation		97.37
Top of Screen Elevation		91.77
Bottom of Screen Elevation		86.47
Measurement Date	DTW (casing)	Groundwater Elevation
5/25/00	4.53	92.84 *
3/26/01	5.59	91.78 *
6/19/01	5.61	91.76
MW-2		
Top of Casing Elevation		99.25
Top of Screen Elevation		92.95
Bottom of Screen Elevation		87.75
Measurement Date	DTW (casing)	Groundwater Elevation
5/25/00	5.26	93.99 *
3/26/01	6.10	93.15 *
6/19/01	5.63	93.62 *
MW-3		
Top of Casing Elevation		98.76
Top of Screen Elevation		92.26
Bottom of Screen Elevation		87.06
Measurement Date	DTW (casing)	Groundwater Elevation
5/25/00	5.03	93.73 *
3/26/01	4.55	94.21 *
6/19/01	5.70	93.06 *
Note: 1) Measurements are in feet 2) DTW = depth to water (from top of casing) 3) MW-7 abandoned on 5/26/00 4) Asterisk indicates water table well screen below water table.		

92

14/1/93
89.82

89.82

89.81

Table 3, continued
Groundwater Elevation Calculations
 Clark Station No. 1656
 1020 Washington Street
 Grafton, Wisconsin
 ATC Project No. 28.75096.2848

MW-4		
Top of Casing Elevation		97.29
Top of Screen Elevation		92.19
Bottom of Screen Elevation		86.99
Measurement Date	DTW (casing)	Groundwater Elevation
5/25/00	4.63	92.66 *
3/26/01	5.52	91.77
6/19/01	5.44	91.85
MW-5		
Top of Casing Elevation		97.31
Top of Screen Elevation		90.21
Bottom of Screen Elevation		84.01
Measurement Date	DTW (casing)	Groundwater Elevation
5/25/00	5.43	91.88 *
3/26/01	6.33	90.98 *
6/19/01	5.67	91.64 *
MW-6		
Top of Casing Elevation		96.72
Top of Screen Elevation		90.62
Bottom of Screen Elevation		84.32
Measurement Date	DTW (casing)	Groundwater Elevation
5/25/00	5.27	91.45 *
3/26/01	6.00	90.72 *
6/19/01	5.35	91.37 *
MW-7		
Top of Casing Elevation		97.25
Top of Screen Elevation		92.35
Bottom of Screen Elevation		85.35
Measurement Date	DTW (casing)	Groundwater Elevation
5/25/00	4.34	92.91 *
Note: 1) Measurements are in feet 2) DTW = depth to water (from top of casing) 3) MW-7 abandoned on 5/26/00 4) Asterisk indicates water table well screen below water table.		

11/1/03

89.03