

January 18, 2024

Ms. Jessica Braun
Wisconsin Department of Natural Resources
2984 Shawano Ave
Green Bay, WI 54313-6727

Subject: Management of Contaminated Soil and Groundwater - STH 76
Former Dennison Quality Oil (8106 USH 45, WDNR BRRTS # 03-69-000214)
Bear Creek, Waupaca County, Wisconsin
WisDOT Project ID #6518-00-70

Dear Ms. Braun,

This report documents the management of petroleum-contaminated groundwater and soil encountered within a portion of the Right-of-Way (ROW) of State Trunk Highway (STH) 76 during the Wisconsin Department of Transportation's (WisDOT) STH 76 highway improvement project, located between USH 45 and CTH W in Waupaca and Outagamie Counties, Wisconsin (WisDOT ID #6518-00-70). Petroleum-contaminated groundwater and soil were encountered within the STH 76 ROW during a frost heave excavation located east of the intersection of STH 76 and United States Highway (USH) 45 in Bear Creek, Waupaca County, Wisconsin, and adjacent to the Former Dennison Quality Oil Leaking Underground Storage Tank (LUST) site (BRRTS #03-69-000214). Contaminated groundwater was managed by the WisDOT's hazardous waste disposal contractor, Veolia Environmental Services (Veolia), and groundwater saturated soil was excavated and transported to a landfill for treatment and disposal by the WisDOT's highway construction contractor Michels Road and Stone, Inc. (Michels) with oversight by TRC Environmental (TRC).

Background

On November 2, 2023, the WisDOT's highway contractor, Michels, encountered petroleum-contaminated groundwater during a frost heave excavation located within the STH 76 ROW, east of the intersection of STH 76 and USH 45. The frost heave excavation was located adjacent to the Former Dennison Quality Oil LUST site (BRRTS #03-69-000214). The contractor observed a possible drain tile at the excavation area that appeared to come from the Former Dennison Quality Oil LUST site, potentially transporting impacted groundwater into the excavation trench. The site location and construction plans are provided in Attachment 1.

Prior to the STH 76 construction project, the WisDOT conducted a Hazardous Materials/Waste Initial Site Reconnaissance for the project corridor in June 2020, and the Former Dennison Quality Oil LUST site was identified as a potential source of contamination. Previously, a limited Geoprobe® investigation was conducted in April 2019 within the USH 45 and STH 76 ROW, south of the Former Dennison Quality Oil LUST site, in response to evidence observed by the Waupaca County Highway Department of petroleum-contaminated soil that was excavated from the area during a signpost installation. During the limited investigation, four soil borings were installed within the STH 76 ROW south of the Former Dennison Quality Oil LUST site, adjacent to the WisDOT's frost heave excavation area. The results of the investigation indicated that petroleum-contaminated soil was present in the STH 76 ROW, to the northwest of the frost heave excavation area. Background information is provided in Attachment 2.

The WisDOT retained TRC to provide environmental construction management services, including groundwater and soil sampling for waste characterization, field-screening of soil and groundwater during construction activities, and oversight of contaminated soil and groundwater management.

Construction Activities

TRC personnel were on site on November 3, 2023, to oversee the excavation of a test pit by the WisDOT's highway construction contractor at the frost heave excavation area within the STH 76 ROW. Groundwater was encountered at 2 feet below ground surface (bgs). TRC personnel field-screened soil and groundwater based on visual observations, olfactory evidence, and through the use of a photoionization detector (PID). Olfactory evidence of petroleum-contamination was observed in groundwater. Olfactory evidence of petroleum-contamination was observed in the groundwater-saturated soil, though PID readings collected from the soil were low (0 to 6 parts per million). One soil sample was collected for waste characterization purposes and was submitted to Pace Analytical for laboratory analysis for benzene. The benzene concentration in the soil sample was less than the detection level. Laboratory analytical reports are included in Attachment 3. A photographic log of construction activities is included in Attachment 4.

On November 13, 2023, TRC observed the WisDOT's Highway contractor, Michels, during the frost heave excavation within the STH 76 ROW, located east of the intersection of STH 76 and USH 45. TRC personnel were on site to field-screen soil excavated by the WisDOT's highway contractor during construction and to oversee the management of contaminated soil and groundwater. TRC personnel field-screened soil based on data from previous investigations, visual observations, olfactory evidence, and through the use of a photoionization detector (PID). PID readings collected from excavated soil were less than 1 ppm. Based on the evidence of petroleum-contamination in the area, it was determined that excavated soil that had been saturated with groundwater would be transported to a landfill for disposal. Disposal documentation is included in Attachment 5. A total of 202.31 tons of impacted soil was transported to Waste Management's Valley Trail Landfill located in Berlin, Wisconsin for treatment and disposal. The approximate area of impacted soil is provided in Attachment 6.

Contaminated groundwater management was coordinated by the WisDOT's hazardous waste disposal contractor, Veolia. During construction, groundwater was pumped from the excavation area by use of a vacuum truck and was transferred to a frac tank until disposal. One groundwater sample was collected for waste characterization and submitted to Pace Analytical for laboratory analysis for petroleum volatile organic compounds (PVOCs) and naphthalene. Benzene, ethylbenzene, toluene, and total xylene concentrations were detected in the groundwater sample. Laboratory analytical reports are included in Attachment 3. A total of 5,245 gallons of impacted groundwater were disposed of by Veolia.

Conclusions

On the basis of the findings of the field observations and field-screening results, TRC recommends that the WisDOT take no further action to investigate or remediate soil or groundwater impacts that may remain at the investigated site or within the construction project limits.



Ms. Jessica Braun
Wisconsin Department of Natural Resources
January 18, 2024
Page 3

If you have any questions regarding this report, please contact me at (608) 347-2022, or Dan Haak, the project manager, at (608) 886-7423.

Sincerely,

TRC



Tom Perkins
Project Engineer



Dan Haak, P.E.
Project Manager

Attachments: Attachment 1 – Construction Plans
Attachment 2 – Background Information
Attachment 3 – Laboratory Analytical Reports
Attachment 4 – Photographic Log
Attachment 5 – Disposal Documentation
Attachment 6 – Impacted Soil Extent Map

cc: Colin Schmenk – WDNR (pdf via email)
Shar TeBeest – WisDOT (pdf via email)

Attachment 1
Construction Plans

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6518-00-70		
6518-06-71		
6518-07-71		

ORDER OF SHEETS

Section No	1	Title
Section No	2	Typical Sections and Details
Section No	3	Estimate of Quantities
Section No	3	Miscellaneous Quantities
Section No	4	Right of Way Plat
Section No	5	Plan and Profile
Section No	6	Standard Detail Drawings
Section No	7	Sign Plates
Section No	8	Structure Plans
Section No	9	Computer Earthwork Data
Section No	9	Cross Sections

GREENVILLE - BEAR CREEK

OUTAGAMIE COUNTY LINE - USH 45
STH 76
WAUPACA COUNTY

SHIOCTON - BEAR CREEK

STH 54 - NCL
STH 76
OUTAGAMIE COUNTY

SHIOCTON - NCL

BOELTER RD - CTH W
STH 76
OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6518-00-70

STATE PROJECT NUMBER
6518-06-71

STATE PROJECT NUMBER
6518-07-71

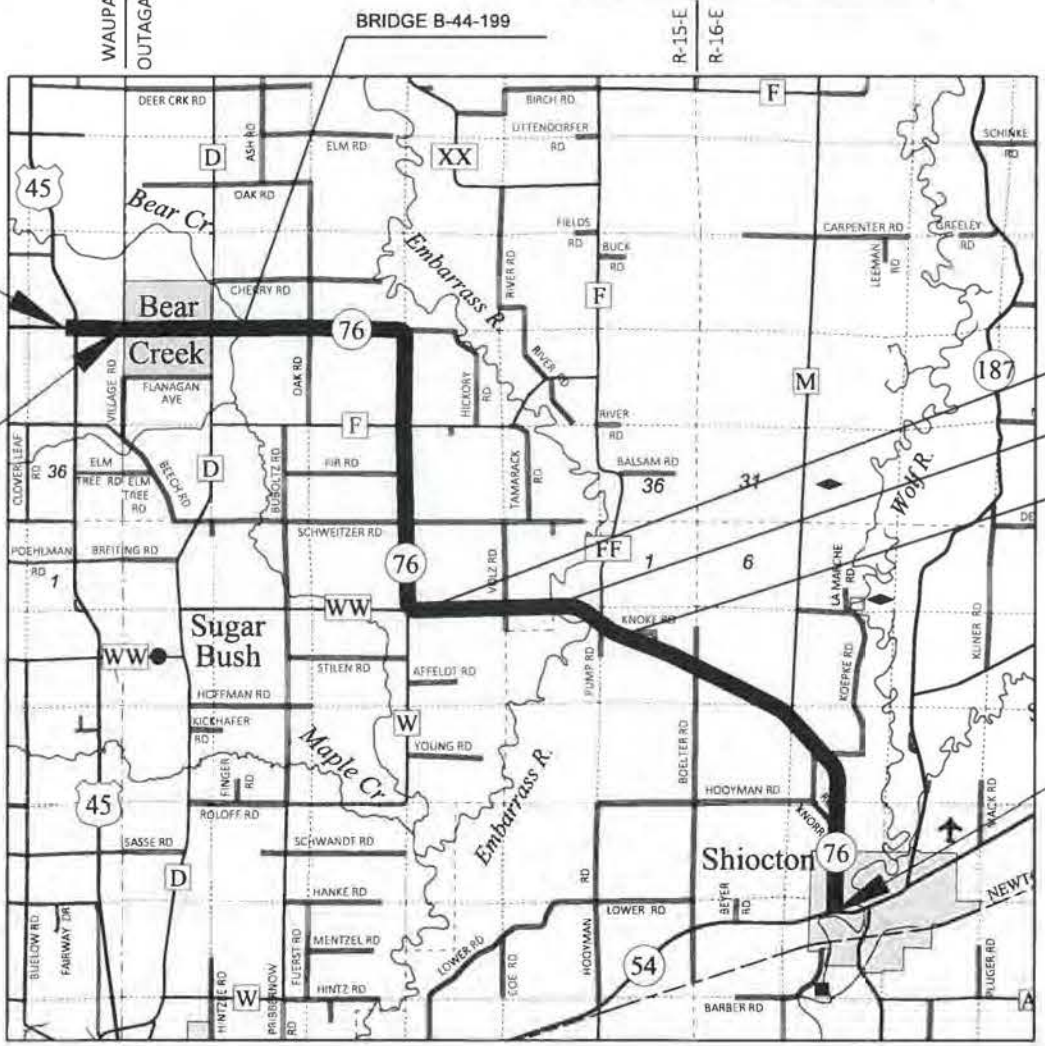


BEGIN PROJECT 6518-00-70
STA 17+71.32
Y= 660,638.794
X= 737,986.421

END PROJECT 6518-00-70
BEGIN PROJECT 6518-06-71
STA 50+01.08
Y= 660,557.057
X= 741,215.113

BOX CULVERT B-44-471
PROJECT 6518-07-71
BRIDGE B-44-198
BOX CULVERT C-44-138
PROJECT 6518-07-71

END PROJECT 6518-06-71
STA 696+80.06
Y= 628,643.133
X= 780,438.265

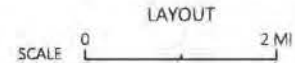
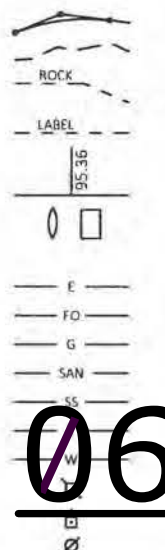


DESIGN DESIGNATION

A.A.D.T. (2024)	=	2010
A.A.D.T. (2044)	=	2280
D.H.V.	=	6.5
D.D.	=	60/40
T.	=	7.7 (AADT)
DESIGN SPEED	=	60 MPH
ESALS	=	270,000

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
	STORM SEWER
	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE
MARSH AREA	
WOODED OR SHRUB AREA	



6518-00-70 TOTAL NET LENGTH OF CENTERLINE = 0.612 MI
6518-06-71 TOTAL NET LENGTH OF CENTERLINE = 12.153 MI
6518-07-71 TOTAL NET LENGTH OF CENTERLINE = 0.097 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), OUTAGAMIE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

Westwood

MICHAEL A. MALCOLM
E-30025
Appleton, WI

PROFESSIONAL ENGINEER

DATE: 10-26-2022
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	NE REGION
Surveyor	WESTWOOD
Designer	J. HANSEN
Project Manager	T. RABE
Regional Examiner	
Regional Supervisor	

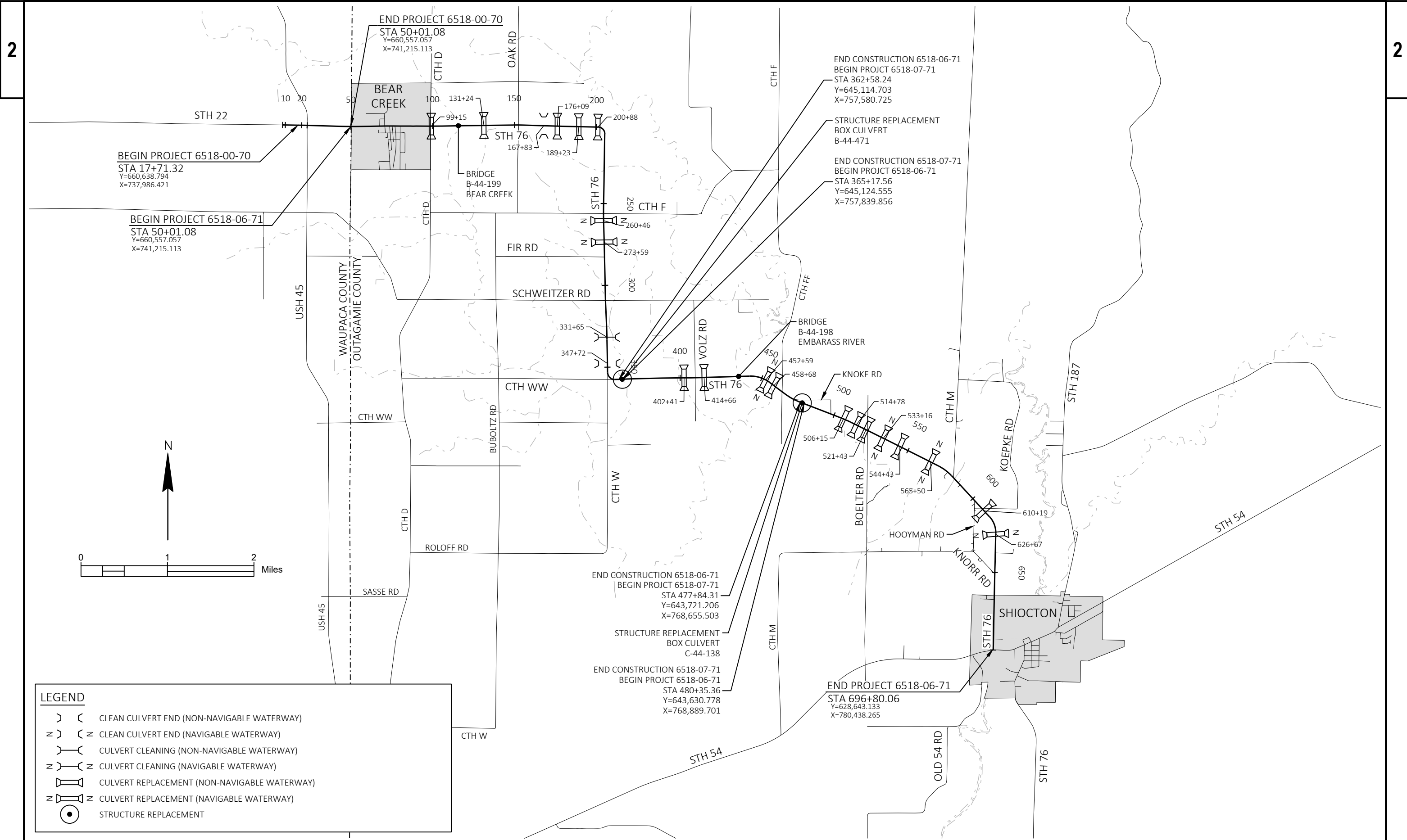
APPROVED FOR THE DEPARTMENT

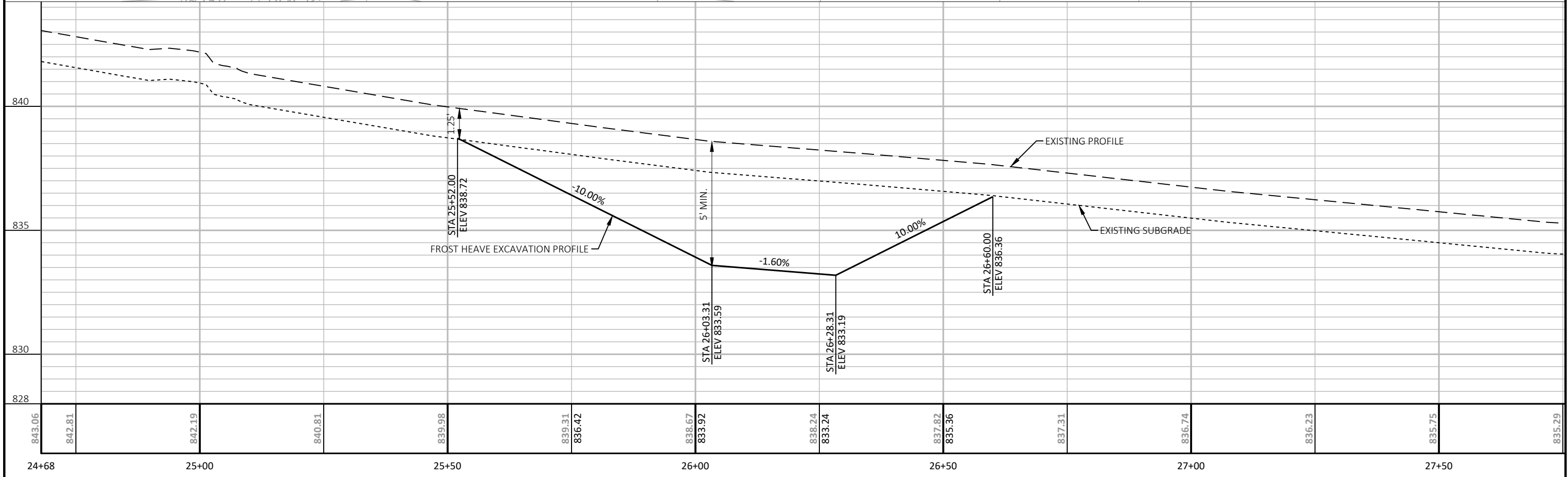
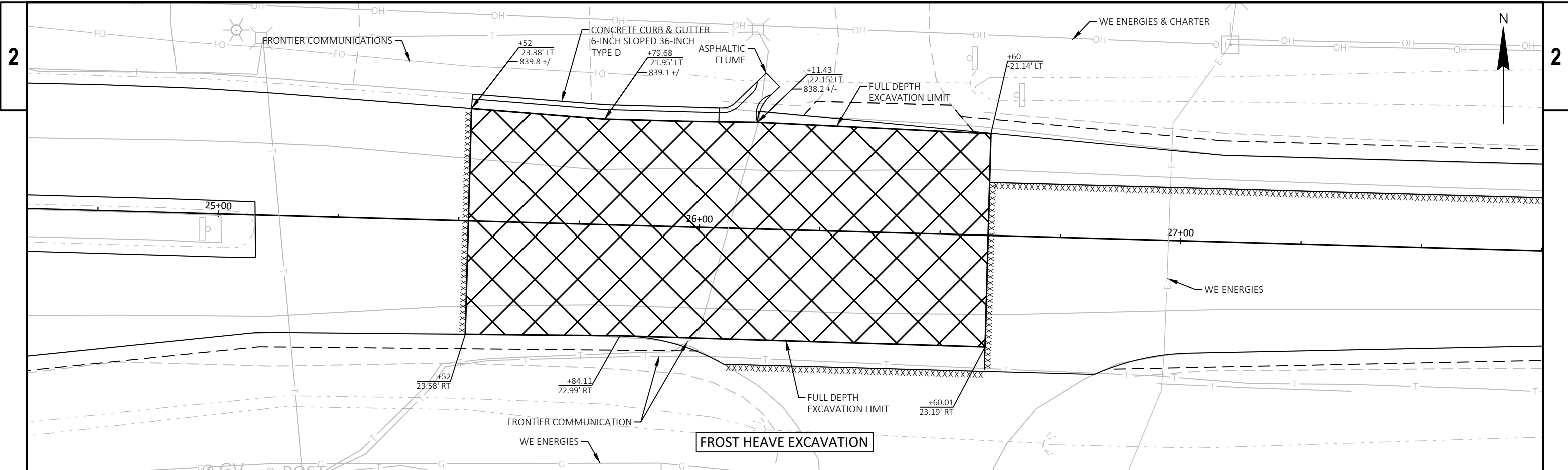
DATE: 10/26/2022
(Signature)

PROJECT ID: 6518-00-70

COUNTY: OUTAGAMIE & WAUPACA

JULY 2023





PROJECT NO: 6180-000-70	HWY: STH 76	COUNTY: WAUPACA & OUTAGAMIE	CONSTRUCTION DETAILS	SHEET	E
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Attachment 2
Background Information

July 17, 2019



Wisconsin Department of Natural Resources

Attn: Mr. B.J. Leroy
2984 Shawano Avenue
Green Bay, WI 54313-6727



Subject:

Limited Geoprobe Investigation
USH 45 & STH 76 ROW – State Lead
Town of Bear Creek, Waupaca County, WI 54922
BRRTS #02-69-583401

Dear Mr. Leroy:

This letter and enclosed information will serve to summarize the results of the limited geoprobe investigation activities at the above referenced site. The site location is shown on Figure 1.

Background

In April 2019, Waupaca County Highway Department workers encountered strong petroleum vapors in soil cuttings while installing a signpost along the west bound right-of-way of STH 76 near the intersection with USH 45. The right-of-way is adjacent to a closed Leaking Underground Storage Tank (LUST) site known as Former Dennison Quality Oil (BRRTS #03-69-000214). The site was closed in 2000 with a groundwater use restriction and later placed on the GIS registry. Spills have also been documented at the site on June 8, and August 18, 1984, and October 6, 2010. The June 8, 1984 spill (BRRTS #04-69-415530) was closed the same day. The August 18, 1984 spill (BRRTS #04-69-449692) was transferred to the LUST activity referenced above.

The October 2010 spill (BRRTS #04-69-556408) was opened when water with gasoline odor was discharging into the ditch from beneath the roadway. The discharge was assumed to be related to the former LUST investigation. Notes on a Dennison Quality Oil site map within the spill file question the presence of a “tank” near the spill area, and close to the area of the 2019 sign installation. Veolia Special Services responded to the spill, placed absorbents, and containerized four (4) 55-gallon drums of water and absorbents. Notes and photographs from the 2010 response are included in Attachment A. The spill was closed on November 10, 2010.

Limited investigative data was available in the GIS package for the Former Dennison Quality Oil site. Although soil samples were likely collected, that data was not included in the GIS, and was not reviewed for this report. Groundwater contamination was present near the area of the sign installed in April at the former MW-5. Mapping and groundwater data from the GIS package are included in Attachment A.

Limited Geoprobe Investigation

On June 27, 2019, REI Engineering, Inc. (REI) was on site to oversee the installation of four (4) geoprobe soil borings at the locations shown on Figure 2. Boring locations were specified by the WDNR and were installed by Geiss Soil & Samples of Merrill, WI. Photographs of the site are included in Attachment B.

Continuous soil samples were collected at two (2) foot intervals and field screened with a Mini-Rae 3000 photoionization detector (PID) with a 10.6 eV lamp. The maximum boring depth was eight (8) feet below land surface (bls).



RESPONSIVE. EFFICIENT. INNOVATIVE.

4080 N. 20th Avenue Wausau, WI 54401
715-675-9784 REIengineering.com

Native soil types consist of black silt, red clay, silty clay, and layers of sand and gravel fill material. Probe refusal was encountered at boring GP1 at approximately six (6) feet bls. Soils in GP1 were saturated at the surface, likely due to recent precipitation and standing water in the ditch, otherwise no obviously saturated soils were observed in any of the borings. A temporary screen, sand filter pack, and PVC casing was placed in geoprobe GP3, and groundwater was measured at a depth of approximately 6.5 feet bls. Soil boring logs and abandonment forms are included in Attachment C. Methods and procedures for geoprobe soil sampling and groundwater sampling are included in Attachment D.

Field screening results were all 0.0 Instrument Units (I.U.s) on the PID for the presence of organic vapors in all soil samples from GP1, GP2, and GP4. Geoprobe GP3 was placed adjacent to the signpost installed in April, and recorded 9.7 Instrument Units (I.U.s) from 2-4 feet bls, and 220 I.U.s from 4-6 feet bls. Sample GP3, 6-8 feet was 0.0 on the PID. One (1) soil sample from each boring was submitted to Pace Analytical, of Green Bay, WI for Petroleum Volatile Organic Compounds (PVOC) and naphthalene analysis. Samples from GP1 (4-6'), GP2 (2-4'), and GP4 (4-6') were non-detect for all PVOCs and naphthalene. Sample GP3, 4-6' exceeded the Groundwater Pathway Residual Contaminant Level (RCL) for benzene, ethylbenzene, toluene, xylenes, trimethylbenzenes, and naphthalene. The results are summarized on Table 1.

One groundwater sample was collected from GP3 using temporary PVC casing and screen and a peristaltic pump with disposable tubing. Sample GP3 contained detectable levels of benzene, ethylbenzene, toluene, trimethylbenzenes, xylenes, and naphthalene and exceeded the NR 140 ES for benzene. The results of groundwater sampling are summarized on Table 2. The complete analytical report is included in Attachment E.

Conclusions and Recommendations

Groundwater contaminant concentrations at GP3 were similar to that of MW-5, installed for the Dennison Quality Oil LUST investigation, which was approximately fifty (50) feet north. Significant soil contamination was encountered at GP3, the chemistry of which may be indicative of a relatively recent release. It may be beneficial to review the Dennison Quality Oil soil data in detail to compare levels of soil contamination in GP3 to levels encountered during the investigation. There are five (5) USTs registered with the Department of Agriculture, Trade, and Consumer Protection (DATCP) as associated with Dennison Quality Oil, David Dennison, or Robert Dennison in the Town of Bear Creek. All five (5) are registered as "in use." A copy of the database search result is included in Attachment F. Wisconsin DATCP petroleum inspection personnel may be able to assist with verifying whether any or all of these USTs have been removed, and not properly re-registered, or if they remain in place.

REI thanks you for the opportunity to service your environmental consulting needs. Please contact me at (715) 675-9784 or Adelforge@REIengineering.com if you would like to discuss this further.

Sincerely,
REI Engineering, Inc.



Andrew R. Delforge P.G.
Senior Hydrogeologist/Project Manager

TABLE 1
GEOPROBE SOIL ANALYTICAL RESULTS
USH 45 & STH 76 ROW
BEAR CREEK, WI 54922

Date-->			6/27/19	6/27/19	6/27/19	6/27/19	6/27/19
Sample-->			GP-1	GP-2	GP-3	GP-4	MeOH
Depth-->			4-6	2-4	4-6	4-6	Blank
Saturated/Unsaturated-->			Unsat	Unsat	Unsat	Unsat	-
PVOCs (ug/kg)	DC RCL	GW RCL					
Benzene	1,600	5.1	<25.0	<25.0	7,110	<25.0	<25.0
Ethylbenzene	8,020	1,570.0	<25.0	<25.0	14,400	<25.0	<25.0
Toluene	818,000	1,107.2	<25.0	<25.0	1,380	<25.0	<25.0
Xylenes (Total)	258,000	3,960	<75	<75	34,570	<75	<75
Methyl tert Butyl Ether	63,800	27.0	<25.0	<25.0	<62.5	<25.0	<25.0
1,2,4-Trimethylbenzene	89,800	1,382.1	<25.0	<25.0	49,000	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000		<25.0	<25.0	11,800	<25.0	<25.0
Naphthalene	5,150	658.2	<25.0	<25.0	2,230	<25.0	<25.0

Notes:

PID - Photoionization Detector

DC RCL - Direct Contact Non-Industrial Sites RCL

GW RCL - Groundwater Pathway RCL

ug/kg - parts per billion

Outlined in Bold	- Exceeding DC RCL
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Bold	- Exceeding GW path RCL
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< - Concentration below listed laboratory detection limit

PVOCs - Petroleum Volatile Organic Compounds

NS - No Standard

NA - Not Analyzed

j - Estimated value between Limit of Detection and Limit of Quantification

TABLE 2
GEOPROBE GROUNDWATER ANALYTICAL RESULTS
USH 45 & STH 76 ROW
BEAR CREEK, WI 54922

	<i>GP-3</i>		
PARAMETER	ES	PAL	6/27/19
Detected VOC's (ug/L)			
Benzene	5	0.5	215
Ethylbenzene	700	140	52.6
Methyl-tert-Butyl Ether	60	12	<2.5
Naphthalene	100	10	6.2 <i>j</i>
Toluene	800	160	10.3
Total Trimethylbenzenes	480	96	82.7
Total Xylenes	2,000	400	148.1

PAL = Preventive Action Limit

ES = Enforcement Standards

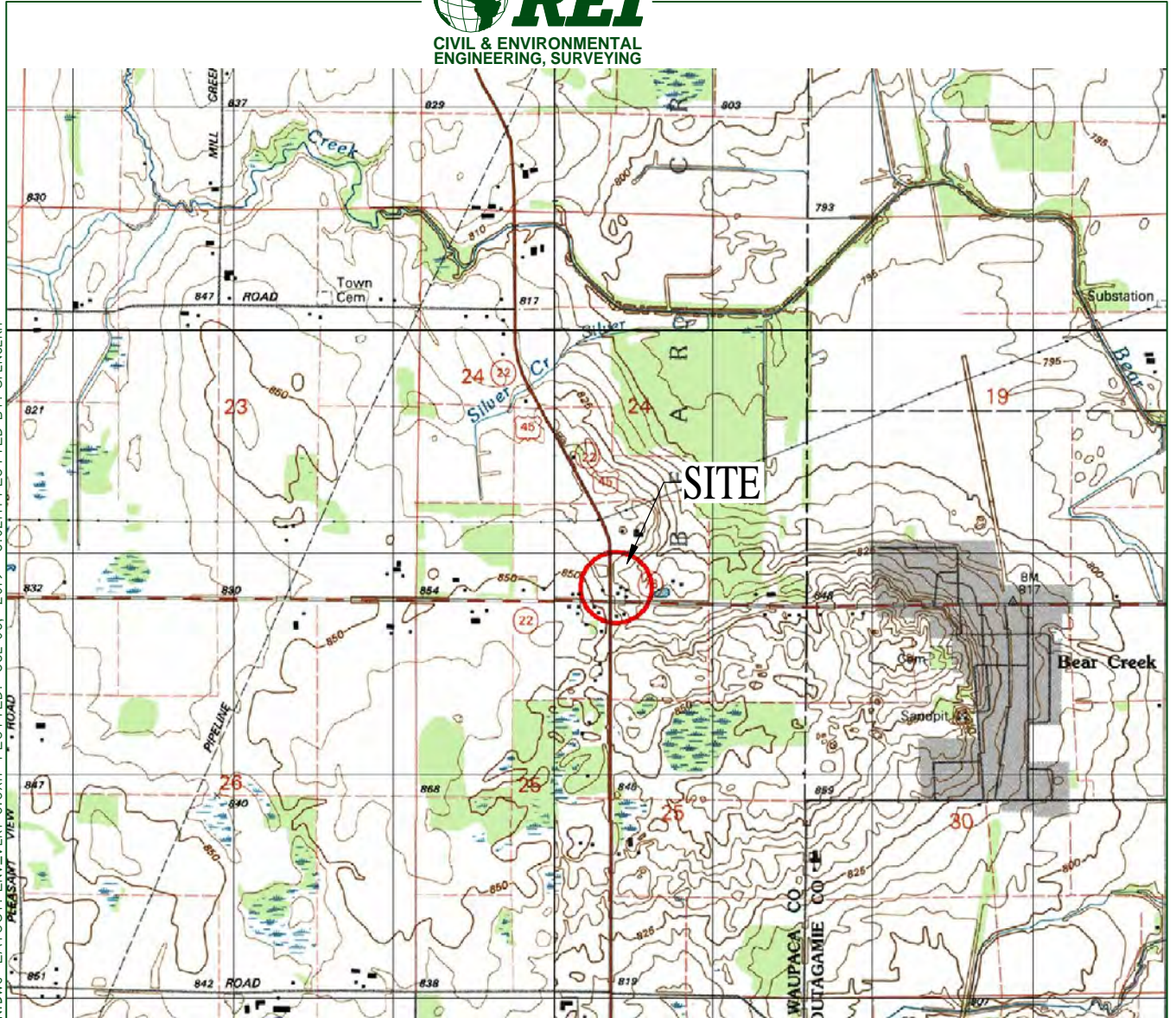
BOLD	= Exceeds Enforcement Standard
<i>Italic</i>	= Exceeds Preventative Action Limit

NA - Not Analyzed

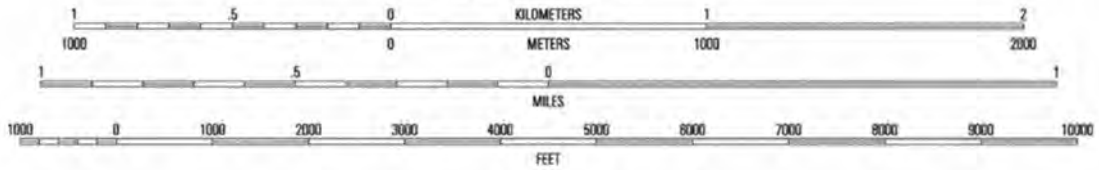
< - Concentration less than listed detection limit

j - Estimated Value between detection limit and quantification limit

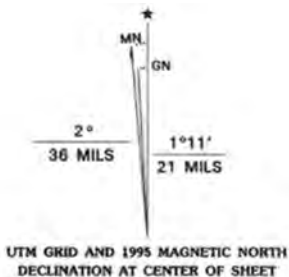
DRAWING FILE: P:\18600-8699\8665-WDNR - Hwy 45 & 76 LIMITED S\DWG\8665-Vicn.DWG LAYOUT: ENV_VERT-8.5x11 PLOTTED: JUL 08, 2019 - 5:02PM PLOTTED BY: SPENCERH



SCALE 1:24 000



CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



BEAR CREEK, WI
44088-E6-TF-024
1992

DMA 3273 II SW-SERIES V861



QUADRANGLE LOCATION

REI ENGINEERING, INC.

BEAR CREEK
USH 45 & STH 76 ROW - SL
TOWN OF BEAR CREEK, WAUPACA COUNTY, WISCONSIN 54922



FIGURE 1 : VICINITY MAP

PROJECT NO.

8665

DRAWN BY:
STH

DATE:
07/08/2019



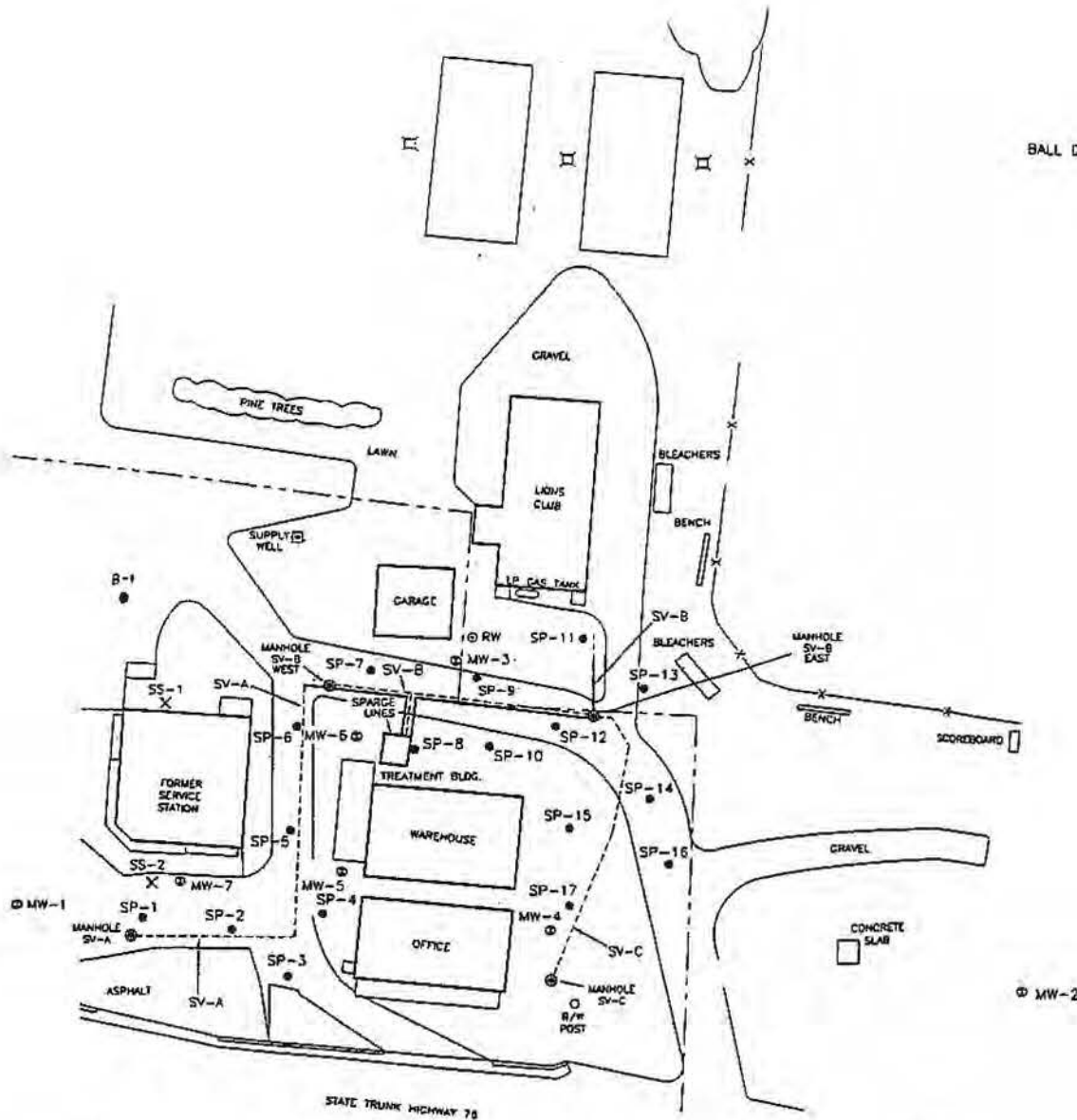
REI Engineering, INC.

BEAR CREEK USH 45 & STH 76 ROW - SL TOWN OF BEAR CREEK, WAUPACA COUNTY, WISCONSIN 54922			FIGURE 2 : SITE MAP PROJECT NO. 8665		DRAWN BY: STH	DATE: 07/08/2019
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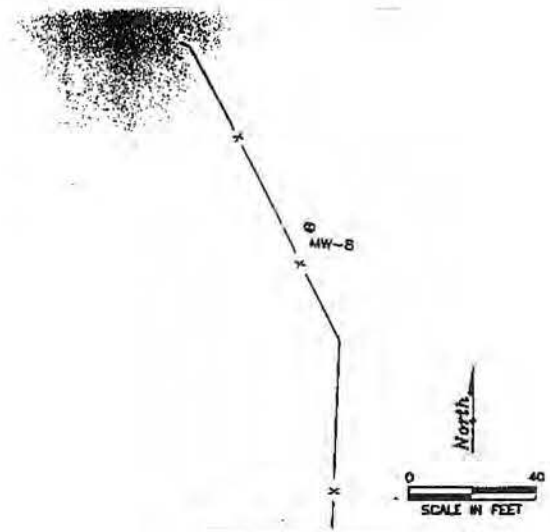
ATTACHMENT A

HISTORICAL GROUNDWATER AND SPILL DATA





BALL DIAMOND



- LEGEND:**
- APPROXIMATE PROPERTY BOUNDARY
 - x- FENCE
 - ⊙ MONITORING WELL LOCATION
 - x SOIL SAMPLE
 - ⊗ SOIL VENT LINE ACCESS MANHOLE
 - SPARGE POINT
 - ⊠ PRIVATE WELL LOCATION
 - ⊙ RECOVERY WELL
 - - - SLOTTED HORIZONTAL SOIL VAPOR EXTRACTION LINES
 - SOLID HORIZONTAL SOIL VAPOR EXTRACTION LINES

FIGURE 2
SITE PLAN
 FORMER DENNISON QUALITY OIL CO.
 BEAR CREEK, WISCONSIN

PROJECT NO. 1093-506	PREPARED BY RM	DRAWN BY DD	
DATE 11/10/99	REVIEWED BY	FILE NAME 93506SM	

VOL 979 PAGE 816

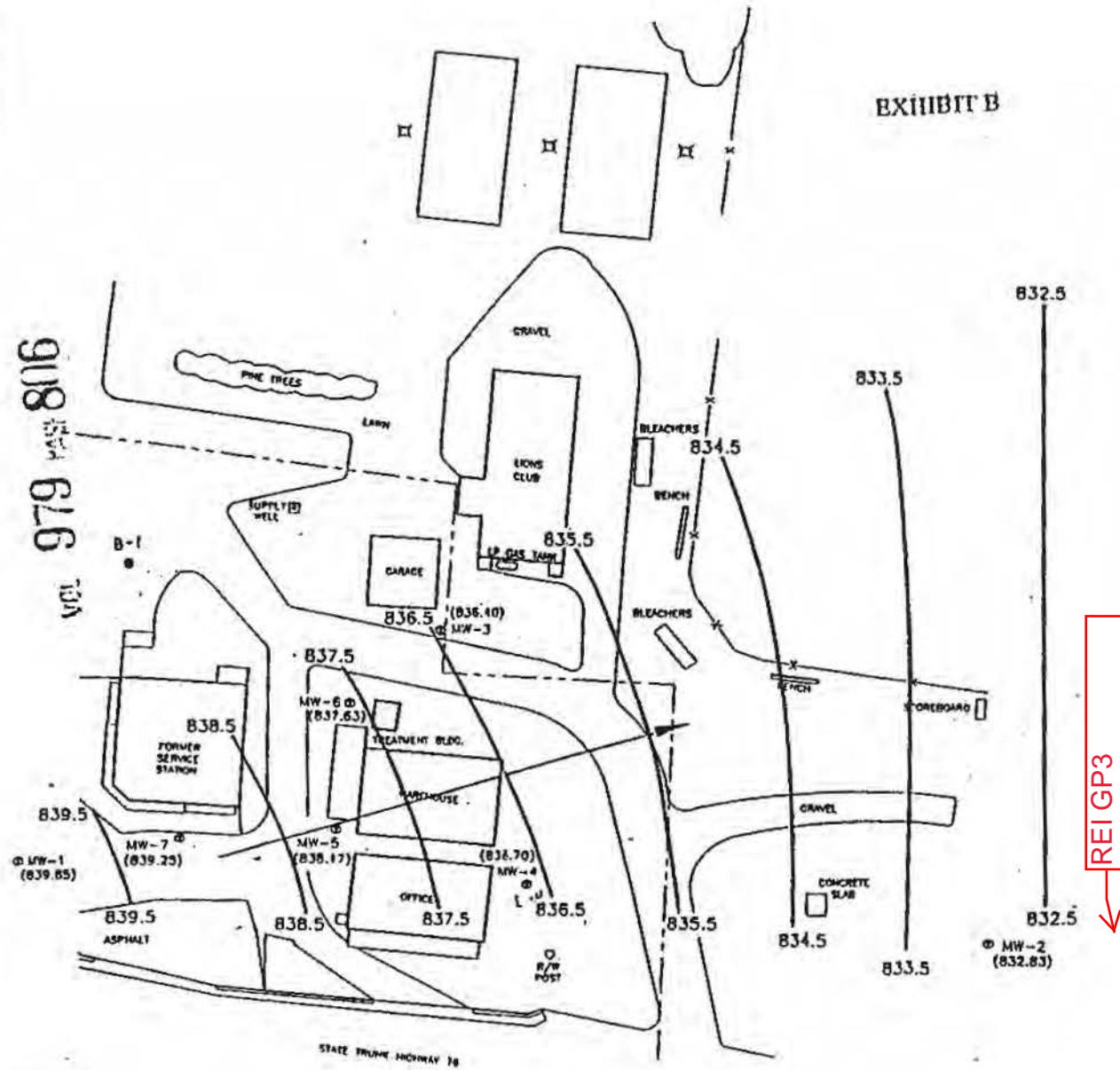
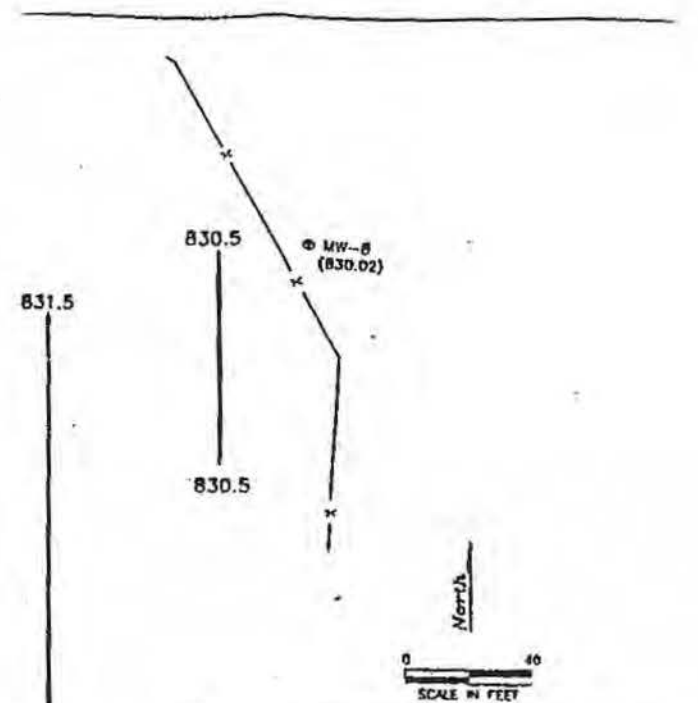


EXHIBIT B



REIGP3

LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- x- FENCE
- ⊙ MONITORING WELL LOCATION
- 834.0 GROUNDWATER CONTOUR LINE
CONTOUR INTERVAL = 1.0 FEET
- (836.40) GROUNDWATER ELEVATION (FT.)
- GROUNDWATER FLOW DIRECTION

APPROXIMATE HYDRAULIC GRADIENT (MW-1, MW-8),
dh/dl = 0.018 ft/ft

GROUNDWATER ELEVATION CONTOUR MAP
MARCH 11, 1999
FORMER DENNISON QUALITY OIL CO.
BEAR CREEK, WISCONSIN

PROJECT NO. 1083-508	PREPARED BY RM	DRAWN BY DD	
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TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. I093-506

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMD ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
MW-1																
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.1	NM	19	4600	7.2	1.0	1.0
12/14/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.6	NM	NM	NM	NM	NM	NM
03/27/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.3	162	NM	NM	NM	NM	NM
06/18/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/11/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	4.4	<50	1.6	-041	16	5400	7.1	4.0	6.0
12/16/96	<5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<50	1.8	-017	8	3600	7.1	0.20	0.10
03/12/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.9	-003	NM	NM	NM	NM	NM
06/25/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.3	133	NM	NM	NM	NM	NM
09/25/97	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<1.9	<50	4.9	-078	17	1600	7.2	10.00	10.00
12/15/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.8	015	NM	NM	NM	NM	NM
03/18/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.0	042	NM	NM	NM	NM	NM
06/17/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.8	031	NM	NM	NM	NM	NM
09/16/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<0.16	<50	0.8	-061	18	600	7.0	10+	8
12/02/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.9	171	NM	NM	NM	NM	NM
03/11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.3	025	NM	NM	NM	NM	NM

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
MW-2																
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	ND	ND	ND	ND	ND	ND	NA	1.2	ND	3.1	NM	16	2300	7.2	0.6	0.4
12/14/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.7	NM	NM	NM	NM	NM	NM
03/27/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.5	205	NM	NM	NM	NM	NM
06/18/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM	NM
09/11/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	12	<50	1.2	056	14	1800	7.0	0.2	0.1
12/16/96	<5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<5.0	<50	1.8	062	8	2500	7.0	0.20	0.10
03/12/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.7	073	NM	NM	NM	NM	NM
06/25/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.2	114	NM	NM	NM	NM	NM
09/25/97	1.2	<0.20	<0.22	<0.23	<0.29	<0.22	1.7	<9.7	<50	4.7	-015	14	600	7.2	7.00	6.00
12/15/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.2	-016	NM	NM	NM	NM	NM
03/18/98	0.36	<0.20	<0.22	<0.23	<0.29	<0.22	<1.1	6.1	<50	1.2	-030	7	200	7.8	10+	8.0
06/17/98	1.5	<0.20	<0.22	<0.23	<0.29	<0.22	<1.1	7.3	<50	0.6	028	15	200	7.8	8.0	6.0
09/16/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<2.0	<50	1.0	-036	15	300	7.6	5.0	1.0
12/02/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.0	168	NM	NM	NM	NM	NM
03/11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.3	040	NM	NM	NM	NM	NM

TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. I093-506

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
<i>NR 140 ES</i>	5.0	343	700	620	480		40	60								
09/13/95	30	35	<5	350	210	<200	54	<5	2300	1.9	NM	19	1700	7.3	5.0	3.0
12/14/95	51	<5	<5	72	90	37	10	<20	1400	7.1	NM	8	1200	7.2	2.0	1.0
03/27/96	41	2.7	5.5	130	130	41	17	<1	1300	8.9	302	4	2400	7.2	0.8	0.2
06/18/96	16	2	2.2	58	18	46	7.1	<1.0	750	3.4	040	15	700	7.1	0.6	0.4
09/11/96	72	9.2	9.3	120	30	94	25	<1.0	1400	2.4	-081	15	2700	7.0	2.0	0.6
12/16/96	32	21	17	86	19	58	13	<12	970	0.8	-086	8	3100	7.1	4.0	2.0
03/12/97	28	2	4.2	29	11	30	4.7	<6.0	380	8.3	111	3	2400	7.1	0.4	0.2
06/25/97	69	1.7	9.2	16	6.2	19	4.9	<0.16	490	1.5	127	14	1200	7.5	0.2	0.1
09/25/97	27	31	21	85	38	130	20	<0.32	2800	3.7	-083	18	600	7.1	6.0	5.0
12/15/97	5.4	3.5	14	40	14	75	16	10	1800	0.2	035	10	800	7.5	>10	7.0
03/18/98	17	<17	9.1	100	53	160	23	<5.1	2200	0.3	-020	5	300	7.5	3.0	2.0
06/17/98	21	12	11	49	27	86	12	<6.8	1900	0.2	-093	18	300	7.6	10+	10.0
09/16/98	14	20	11	45	14	65	11	<7.8	980	0.3	-121	20	500	7.1	10+	10+
12/02/98	32	77	60	130	15	130	39	16	2000	0.2	-100	13	200	7.5	10+	10+
03/11/99	13	10	11	98	18	88	17	<0.67	1600	0.2	-023	NM	NM	NM	NM	NM

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
<i>NR 140 ES</i>	5.0	343	700	620	480		40	60								
09/13/95	130	3.7	110	11	6.9	<5	7.4	<2	700	2.0	NM	18	4400	7.3	10.0	10.0
12/14/95	52	1.3	42	<3	1.3	<1	1.7	<10	450	6.1	NM	7	2400	7.1	3.0	2.0
03/27/96	14	<1	15	<1	<1	<1	1.1	<10	200	8.4	330	5	4500	7.1	NA	NA
06/18/96	21	<1.0	22	<3.0	1.5	2.1	1.6	<1.0	300	1.4	-066	15	4000	7.1	8.0	6.0
09/11/96	9.1	<1.0	10	<3.0	<1.0	1.1	<3.0	<28	260	1.2	-073	15	4000	7.1	>10	>10
12/16/96	4.9	<1.0	1.7	<3.0	<1.0	<1.0	<1.0	<1.0	120	1.2	-022	9	3600	7.1	>10	>10
03/12/97	1.1	<0.20	0.89	0.34	<0.29	<0.22	<46	7.9	<50	11.7	183	3	4100	7.4	1.0	0.8
06/25/97	8	0.39	1.9	0.97	<0.29	0.48	<2.0	<0.16	81	1.3	069	14	3500	6.8	8.0	6.0
09/25/97	12	0.44	1	0.53	<0.29	0.32	<0.46	<12	<50	4.4	-074	16	1200	7.1	10.0	8.0
12/15/97	1.6	0.25	0.99	0.48	<0.29	0.41	0.88	<0.16	53	0.2	-054	13	700	7.4	>10	>10
03/18/98	4.9	0.53	1.6	1.7	0.34	1.0	<1.1	<6.5	100	0.4	-032	6	300	7.5	10+	10+
06/17/98	2.8	0.33	2.0	1.0	<0.29	1.1	1.2	4	<50	0.9	-063	17	300	7.6	10+	10+
09/16/98	1.1	0.24	0.42	<0.23	<0.29	0.29	0.53	<3.1	<50	0.3	-108	16	600	7.1	10+	10+
12/02/98	1.2	<0.20	0.26	<0.23	<0.29	0.42	0.59	2.7	120	0.2	-057	13	200	7.4	10+	10+
03/11/99	4.0	0.33	0.33	0.97	<0.29	<0.22	<1.1	6.0	87	0.2	-060	NM	NM	NM	NM	NM

TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. 1093-506

MW-5											In-field Biodegradation Measurements						
Parameter/ Date Sampled	Volatile Organic Compounds									DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm	
	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L								
NR 140 ES	5.0	343	700	620	480		40	60									
09/13/95	3900	2200	220	3400	500	<200	<300	<50	17000	0.8	NM	19	5600	7.3	10.0	10.0	
12/14/95	280	160	49	710	140	140	<40	<100	7600	1.2	NM	7	5000	7.5	10.0	10.0	
03/27/96	2000	610	<100	1900	310	<380	<2,200	<100	20000	1.0	059	5	4900	7.2	10.0	10.0	
06/18/96	300	170	54	1100	91	190	<50	<50	3300	0.9	-072	15	4800	6.8	10.0	10.0	
09/11/96	2100	640	150	2300	180	380	250	<50	21000	0.2	-121	14	4900	6.9	>10	>10	
12/16/96	760	280	65	1500	140	280	460	<20	5500	0.5	-136	8	5100	7.2	>10	>10	
03/12/97	140	36	15	240	38	66	19	<4.0	1300	4.1	-035	3	4200	7.1	9.0	5.0	
06/25/97	560	170	63	1000	100	200	14	<0.80	5500	1.2	-041	15	4000	6.9	>10	>10	
09/25/97	770	260	110	1800	190	380	140	<16	6000	1.9	-141	19	2000	7.0	>10	>10	
12/15/97	920	230	120	1300	140	270	42	38	12000	1.2	014	12	1400	7.2	>10	>10	
03/18/98	610	190	89	1200	130	250	89	<16	5600	0.2	-069	6	600	7.2	10+	10+	
06/17/98	480	200	140	1800	240	490	<370	<8.0	24000	0.9	-125	19	800	7.6	10+	10+	
09/16/98	150	52	44	660	140	260	170	<6.9	7800	0.2	-150	19	1200	7.2	10+	10+	
12/02/98	100	38	18	500	98	150	30	9.7	3800	0.2	-117	13	300	7.4	10+	10+	
03/11/99	230	84	<44	720	110	210	170	<32	20000	0.2	-142	NM	NM	NM	NM	NM	

MW-6											In-field Biodegradation Measurements						
Parameter/ Date Sampled	Volatile Organic Compounds									DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm	
	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L								
NR 140 ES	5.0	343	700	620	480		40	60									
09/13/95	2.1	<1	<1	<3	<1	<1	<1	<1	<50	1.7	NM	19	1300	7.4	0.4	0.2	
12/14/95	0.77	<1	<1	<3	1.3	<1	1.3	<1	82	5.2	NM	7	800	7.2	0.4	0.2	
03/27/96	<0.50	<1	<1	<3	<1	<1	<1	<1	<500	11.0	223	4	1700	7.1	0.4	0.2	
06/18/96	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<50	7.1	125	14	1300	7.0	0.1	0.0	
09/11/96	3.6	1	<1.0	<3.0	<1.0	1	<1.0	<1.0	85	1.9	-014	15	2100	6.9	7.0	5.0	
12/16/96	3.7	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	6.9	<50	1.7	-094	8	1500	7.0	0.4	0.2	
03/12/97	<0.13	<0.20	<0.22	<0.40	<0.29	0.45	<0.46	2.3	<50	10.7	201	4	900	7.5	0.4	0.2	
06/25/97	4.2	0.25	0.6	3.1	1.8	1.9	1.1	<2.2	72	5.8	189	14	1100	7.4	0.4	0.2	
09/25/97	1.0	0.38	0.24	1.1	0.67	1.2	1.2	<3.3	57	4.5	040	18	1000	7.6	10.0	7.0	
12/15/97	1.1	0.34	0.78	2.6	1.6	2.9	1.9	<0.16	54	9.6	044	11	900	7.9	7.0	5.0	
03/18/98	1.2	0.36	1.4	1.2	0.98	1.9	<1.7	<0.81	130	1.0	038	6	400	7.6	2.0	0.6	
06/17/98	0.84	0.24	0.8	1.4	1.2	2.4	<1.1	<0.16	140	0.4	-025	18	300	7.5	10+	10+	
09/16/98	2.6	1.0	2.1	3.6	3.8	3.5	1.6	<1.9	210	0.2	-210	18	700	7.4	10+	10+	
12/02/98	1.8	<0.20	<0.22	0.51	0.34	0.79	1.2	<0.16	160	0.2	-085	13	200	7.5	10+	10+	
03/11/99	1.1	0.65	0.81	1.4	1.5	2.1	<1.1	<0.16	160	0.2	-086	NM	NM	NM	NM	NM	

TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. 1093-506

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
<i>NR 140 ES</i>	5.0	343	700	620	480		40	60								
09/13/95	340	1600	850	3400	1300	<1100	200	<100	14000	1.4	NM	20	5100	7.3	10.0	10.0
12/14/95	360	2000	740	3400	1100	330	290	<100	12000	1.3	NM	7	4800	7.5	10.0	10.0
03/27/96	470	5200	1200	6500	1600	<1400	540	<100	24000	0.5	-018	4	6500	7.3	10.0	10.0
06/18/96	400	3200	1300	5400	410	1600	500	<20	20000	0.3	-103	150	5700	7.2	10.0	10.0
09/11/96	260	2200	1100	3300	310	1300	510	<10	17000	0.2	-102	17	5200	7.1	>10	>10
12/16/96	300	2700	1000	3300	370	1400	310	<20	13000	0.6	-120	8	5400	7.2	>10	>10
03/12/97	140	1600	740	3400	510	1400	320	<8.0	12000	2.8	-071	3	6800	7.1	>10	10.0
06/25/97	120	660	830	2700	320	1300	380	<3.2	13000	1.3	-048	15	5800	7.0	>10	>10
09/25/97	110	1400	730	3100	350	1300	250	<3.2	14000	2.3	-136	18	1800	7.1	>10	>10
12/15/97	80	2900	1100	5100	470	1700	520	<6.4	21000	0.2	-137	12	1600	7.4	>10	>10
03/18/98	73	1600	860	3400	390	1400	330	<5.3	17000	0.2	-099	7	600	7.3	10+	10+
06/17/98	56	1000	740	2900	330	1200	310	<3.2	14000	0.8	-124	17	400	7.5	10+	10+
09/16/98	38	490	520	2100	270	930	340	<8.0	11000	0.2	-164	20	1200	7.2	10+	10+
12/02/98	30	200	480	2100	380	1300	500	21	11000	0.2	-120	13	300	7.5	10+	10+
03/11/99	55	160	330	1400	300	950	400	<32	10000	0.2	-156	NM	NM	NM	NM	NM

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Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
<i>NR 140 ES</i>	5.0	343	700	620	480		40	60								
09/13/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	NM	17	700	7.1	0.2	0.1
12/14/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.4	NM	NM	NM	NM	NM	NM
03/27/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.3	125	NM	NM	NM	NM	NM
06/18/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM	NM
09/11/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	2.9	<50	1.5	098	15	500	7.0	0.1	0.0
12/16/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<50	1.3	087	8	800	7.0	0.2	0.1
03/12/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.5	094	NM	NM	NM	NM	NM
06/25/97	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	0.55	<0.16	<50	1.3	139	14	500	7.6	0.1	0.0
09/25/97	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<0.16	<50	4.3	047	15	400	7.6	0.6	0.3
12/15/97	<0.13	<0.20	<0.22	0.34	<0.29	<0.22	<0.46	<0.16	<50	1.2	017	12	300	7.9	0.3	0.2
03/18/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.8	036	NM	NM	NM	NM	NM
06/17/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.5	106	NM	NM	NM	NM	NM
09/16/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<0.16	<50	0.7	087	16	200	7.8	0.6	0.3
12/02/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.2	149	NM	NM	NM	NM	NM
03/11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.6	023	NM	NM	NM	NM	NM



PHOTOS BY TOM STORM - DNR 10-7-10

MW-1	5/17/98	9/16/98	12/2/98	3/11/99
B	NS	<0.13	NS	NS
T	NS	<0.20	NS	NS
E	NS	<0.22	NS	NS
X	NS	<0.23	NS	NS
NAPH	NS	<0.46	NS	NS
MTBE	NS	<0.16	NS	NS
DO	0.8	0.6	0.9	0.7
REDOX	0.3	-0.51	1.71	0.8

MW-6	6/17/98	9/16/98	12/2/98	3/11/99
B	0.84	2.6	1.8	1.1
T	0.24	1.0	<0.20	0.65
E	0.8	2.1	<0.22	0.81
X	1.4	3.6	0.51	1.4
NAPH	<1.1	1.6	1.2	<1.1
MTBE	<0.16	<1.9	<0.16	<0.16
DO	7.0	0.4	0.2	0.2
REDOX	-0.25	-2.10		

MW-3	6/17/98	9/16/98	12/2/98	3/11/99
B	21	14	32	10
T	12	20	77	10
E	11	11	60	11
X	49	45	130	98
NAPH	12	11	39	17
MTBE	<6.8	<7.8	16	<0.67
DO	0.2	0.3	0.2	0.2
REDOX	-0.93	-1.21	-1.00	-2.3

MW-5	6/17/98	9/16/98	12/2/98	3/11/99
B	56	38	30	160
T	1000	490	200	160
E	740	520	480	330
X	2900	2100	2100	2000
NAPH	310	340	500	300
MTBE	<3.2	<8.0	21	<3.2
DO	0.8	0.2	0.2	0.2
REDOX	-1.24	-1.64	-1.20	-1.56

MW-7	6/17/98	9/16/98	12/2/98	3/11/99
B	480	150	100	230
T	200	52	36	84
E	140	44	18	<4.4
X	1800	660	500	230
NAPH	<3.70	1.70	30	<3.2
MTBE	<8.0	<6.3	3.7	<3.2
DO	0.9	0.2	0.2	0.2
REDOX	-1.25	-1.50	-1.17	-1.42

MW-4	6/17/98	9/16/98	12/2/98	3/11/99
B	2.8	1.1	1.2	4.0
T	0.33	0.24	<0.20	0.33
E	2	0.42	0.26	0.33
X	1	<0.23	<0.23	0.97
NAPH	1.2	0.53	0.59	<1.1
MTBE	4	<3.1	2.7	6.0
DO	0.9	0.3	0.2	0.2
REDOX	-0.63	-1.08	-0.57	-6.0

MW-2	6/17/98	9/16/98	12/2/98	3/11/99
B	1.5	<0.13	NS	NS
T	<0.20	<0.20	NS	NS
E	<0.22	<0.22	NS	NS
X	<0.23	<0.23	NS	NS
NAPH	<1.1	<0.46	NS	NS
MTBE	7.3	<2.0	NS	NS
DO	0.6	1.0	1.0	0.3
REDOX	0.28	-0.36	1.68	4.0

MW-8	6/17/98	9/16/98	12/2/98	3/11/99
B	NS	<0.23	NS	NS
T	NS	<0.20	NS	NS
E	NS	<0.22	NS	NS
X	NS	<0.23	NS	NS
NAPH	NS	<0.46	NS	NS
MTBE	NS	<0.16	NS	NS
DO	0.6	0.7	1.1	0.6
REDOX	1.06	0.87	1.49	2.3

REI GP3

LEGEND:

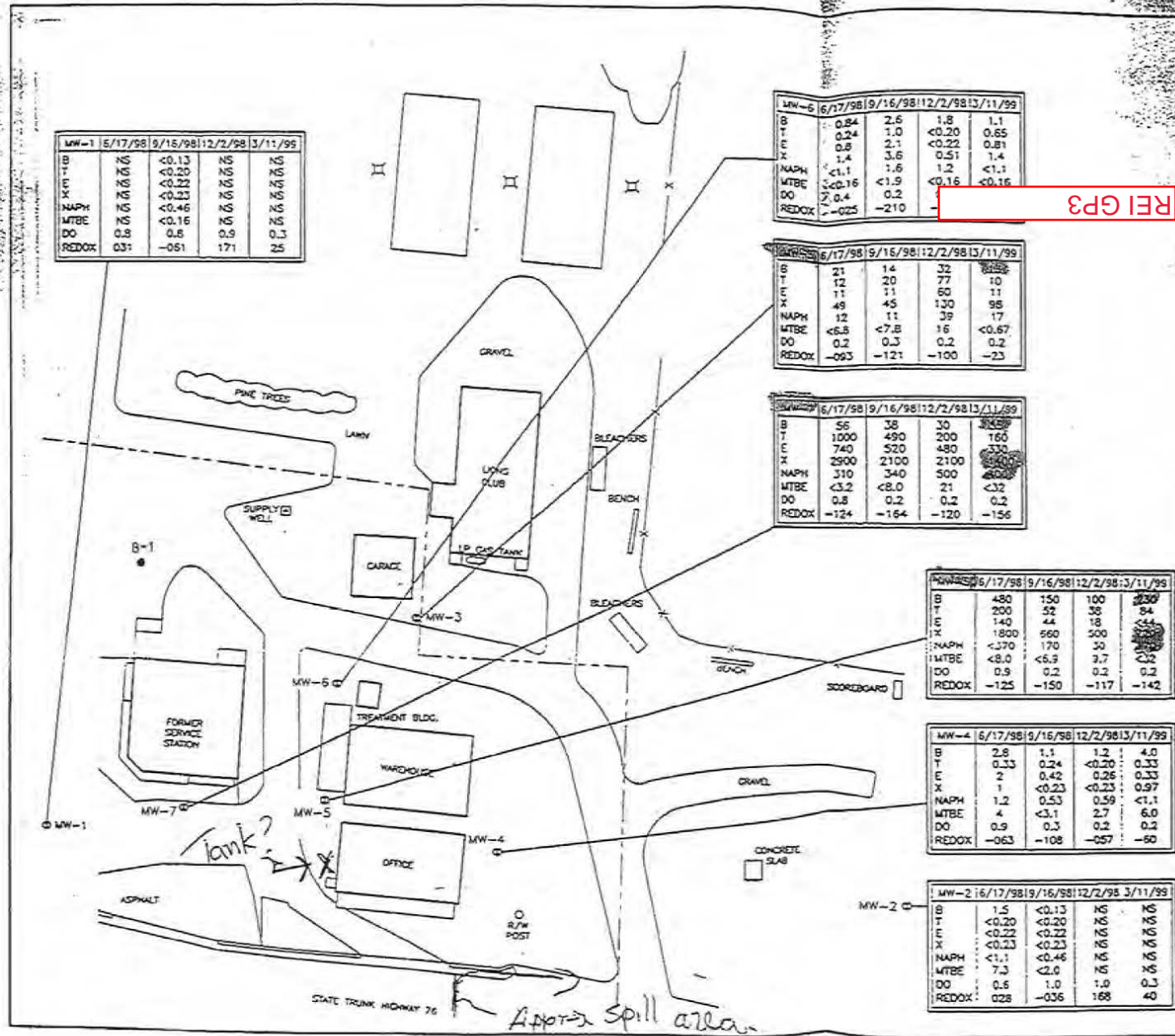
- APPROXIMATE PROPERTY BOUNDARY
- X- FENCE
- ⊙ MONITORING WELL LOCATION
- 12/2/98 = SAMPLE DATE
- B = BENZENE (µg/l)
- T = TOLUENE (µg/l)
- E = ETHYLBENZENE (µg/l)
- X = XYLENE (µg/l)
- NAPH = NAPHTHALENE (µg/l)
- MTBE = METHYL TERT-BUTYL ETHER (µg/l)
- DO = DISSOLVED OXYGEN (ppm)
- REDOX = OXIDATION-REDUCTION POTENTIAL (mv)
- (µg/l) = MICROGRAMS PER LITER
- (ppm) = PARTS PER MILLION
- (mv) = MILLIVOLTS
- (NS) = WELL NOT SAMPLED

FIGURE 10
GROUNDWATER CHEMICAL CONCENTRATION MAP
FORMER DENNISON QUALITY OIL CO.
BEAR CREEK, WISCONSIN

PROJECT NO. 1093-506	PREPARED BY RM	DRAWN BY DD
DATE 11/10/99	REVIEWED BY	FILE NAME 93306SM



03-69-000214



ATTACHMENT B

SITE PHOTOGRAPHS





Geoprobe GP1, facing south from STH 76



Geoprobe GP2, facing northeast from south side of STH 76



Utilities along north side of STH 76, and GP3 location, facing east



GP4, facing northwest from STH 76 median

USH 45 & STH 76 ROW Bear Creek, WI 54922	Photographs REI No. 8665
---	-----------------------------

ATTACHMENT C



SOIL BORING LOGS AND ABANDONMENT FORMS




Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 02-69-583401 USH 45 &STH 76 ROW		License/Permit/Monitoring Number		Boring Number GP1	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith - SGS			Date Drilling Started 6/27/19	Date Drilling Completed 6/27/19	Drilling Method Geoprobe - Direct Push
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 1342	Borehole Diameter 3"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP1			Lat	Local Grid Location	
State Plane SW 1/4 SE 1/4 Sec. 24, T24N, R14E			Long	N <input type="checkbox"/>	E <input type="checkbox"/>
				S <input type="checkbox"/>	W <input type="checkbox"/>

Facility ID	County Waupaca	County Code 69	Civil Town/City/or Village Town of Bear Creek
-------------	----------------	----------------	---

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				1	Base Coarse Crushed Dolomite	GP					W				
1	SS	12		2	Black Silt				0		M				
2	SS	12		3		ML			0						
				4											
				5											
				6	Probe Refusal @ 6'										
				7											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name 02-69-583401 USH 45 &STH 76 ROW		License/Permit/Monitoring Number		Boring Number GP2	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith - SGS			Date Drilling Started 6/27/19	Date Drilling Completed 6/27/19	Drilling Method Geoprobe - Direct Push
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 1342	Borehole Diameter 3"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP2			Lat	Local Grid Location	
State Plane SW 1/4 SE 1/4 Sec. 24, T24N, R14E			Long	N <input type="checkbox"/>	E <input type="checkbox"/>
				S <input type="checkbox"/>	W <input type="checkbox"/>

Facility ID	County Waupaca	County Code 69	Civil Town/City/or Village Town of Bear Creek
-------------	----------------	----------------	---

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	Soil Properties					RQD/ Comments	
									PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		P 200
				1	Base Coarse Crushed Dolomite	GP					M-W				
				2	Sand Black, silty	SM					M				
1	SS	10		3	Black Silt	ML			0						
				4	Sand Brown, very fine grained	SP					M-W				
				5	Sand Black, silty	SM					M-W				
2	SS	20		6	Sand Brown, fine to medium grained	SP			0		M-W				
				7	Red Clay	CL			0		M				
				8	End of Boring @ 8 Feet										
				9											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
-----------	--

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.


Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name 02-69-583401 USH 45 &STH 76 ROW		License/Permit/Monitoring Number		Boring Number GP3	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith - SGS			Date Drilling Started 6/27/19	Date Drilling Completed 6/27/19	Drilling Method Geoprobe - Direct Push
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 1342	Borehole Diameter 3"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP3			Lat	Local Grid Location	
State Plane SW 1/4 SE 1/4 Sec. 24, T24N, R14E			Long	N <input type="checkbox"/>	E <input type="checkbox"/>
				S <input type="checkbox"/>	W <input type="checkbox"/>

Facility ID	County Waupaca	County Code 69	Civil Town/City/or Village Town of Bear Creek
-------------	----------------	----------------	---

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	Soil Properties					RQD/ Comments	
Number	Type	Length Att. & Recovered (in)	Blow Counts						Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				0	Grass										
				1	Topsoil Brown, silty sand	SM					M				
				2	Sand Brown, fine to coarse grained, with gravel	SP									
12	SS	12		3	Clay Dark brown, silty	CL			9.7						
				4	Sand Brown, medium to coarse grained	SP					M-W				
2	SS	24		5	Clay Gray, silty	CL			220						
				6	Black Organic Silt/Peat	ML/PT					M				
3	SS	24		7	Red Clay	CL			0						
				8	End of Boring @ 8 Feet										
				9											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 02-69-583401 USH 45 &STH 76 ROW		License/Permit/Monitoring Number		Boring Number GP4	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith - SGS			Date Drilling Started 6/27/19	Date Drilling Completed 6/27/19	Drilling Method Geoprobe - Direct Push
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 1342	Borehole Diameter 3"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP4 State Plane SW 1/4 SE 1/4 Sec. 24, T24N, R14E			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Waupaca	County Code 69	Civil Town/City/or Village Town of Bear Creek
-------------	----------------	----------------	---

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	Soil Properties						RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts						Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				0	Grass Topsoil Brown, silty sand	SM				M					
12	SS	18		2	Fill Brown, fine to coarse grained, with gravel	SP									
				3	Sand Black, silty	SM			0						
2	SS	24		4	Sand Brown, fine grained	SP			0						
3	SS	24		6	Red Clay	CL			0	W					
				8	End of Boring @ 8 Feet										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
-----------	--

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Hazardous Materials/Waste Initial Site Reconnaissance

Project ID: 6518-06-00

STH 76

STH 54-NCL

Outagamie and Waupaca Counties

Hazardous Materials/Waste
Initial Site Reconnaissance

Project ID: 6518-06-00

Highway: STH 76

Termini: STH 54-NCL

Counties: Outagamie and Waupaca

Project Supervisor: Chuck Karow

Project Manager: Tim Rank

Project Leader: Keanu Wong



Prepared by: Abby Buchholz

Prepared on: 6/4/2020

6518-06-00

WIS 76
WIS 54-NCL
Outagamie/Waupaca County



Legend

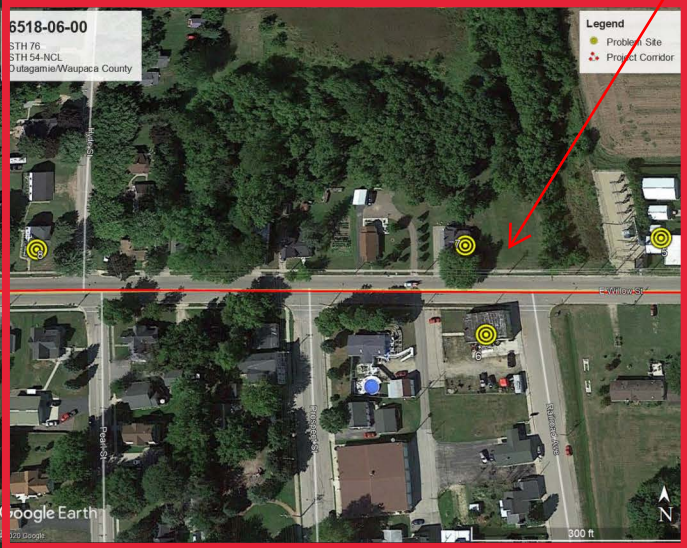
-  Problem Site
-  Project Corridor

Note, sites are mapped incorrectly, see following page

6518-06-00
5TH 76
5TH 54-NCL
Outagamie/Waupaca County

Legend

-  Problem Site
-  Project Corridor



Google Earth



West Ave

5 mi

187
Shiocton

M

22

9

8

6

5

4

3

2




1

76

6518-06-00

WIS 76, Bear Creek

Legend

-  Bear Creek Village Fire Dept
-  Grace Lutheran Church
-  Kirlin's Hallmark



Site 6: 100 Railroad Ave

Site 5 address:
300 E Willow St and
102 E Willow St

Site 7: 102 E Willow St

Google Earth

© 2020 Google

800 ft



WisDOT Phase 1 Hazardous Materials Assessment Site Summary
(rev. 2/2016)

Instructions: following FDM 21-35-5, perform site assessment, fill in information for each site investigated. Multiple sites with no identified environmental concerns may be summarized on one form.

Recommendation acceptance/rejection/modification should be completed and signed by the person with the authority to make project decisions (for example: region hazardous materials coordinator, project manager, local road management consultant)

WisDOT Project ID: 6518-06-00
Highway/Street: STH 76
Termini/Limits: From STH 54 To NCL
County or Counties: Outagamie and Waupaca

Property Information:

Site Name(s): Dennison Quality Oil
 DOT parcel number (if known):
 Property Address: 8106 USH 45, Bear Creek, WI 54922
 Owner's Name:
 Owner's Address: include complete street address including city, state, and zip code
 Owner's Phone: phone number, including area code
 Current Land Use:
 Past Land Use:

Real Estate Requirements:

- None Total take Strip acquisition of _____ feet
- Temporary Limited Easement (TLE)
- Permanent Limited Easement (PLE)
- Other (describe)

Construction Requirements:

- Excavation within current right of way to a depth of _____ feet
- Excavation within proposed right of way to a depth of _____ feet
- Excavation within easement to a depth of _____ feet
- Public or private utility or sanitary or storm sewer installation or excavation to a depth of _____ feet

Information from database searches and interviews:

Department of Agriculture, Trade and Consumer Protection (DATCP)

- site has 6 (number) registered tanks ASTs _____ (number) USTs 6 (number)
- tanks are currently in use _____ (number)
- some _____ (number) all tanks are abandoned; date(s): 8/18/1989, 9/30/1989, 3/31/1995, 9/13/1995

Tank contents and total number of tanks, both in place and abandoned:

- Leaded gasoline Unleaded gasoline 6,000 gallons; 6,000 gallons; 4,000 gallons
 - Fuel Oil 500 gallons
 - Diesel 8,000 gallons; 300 gallons Kerosene Unknown Other
- (describe)

Comments:

Department of Natural Resources (DNR)

- site is a DNR administered LUST site; BRRTS number: 03-69-000214
- site is a DNR administered ERP site; BRRTS number:
- site is a closed LUST ERP site; closure date: 8/10/2000
- site is a landfill
- site is an abandoned waste disposal site
- site is a hazardous waste generator EPA Generator ID:

- site is a spill site
- site has continuing obligations (attach copy of closure letter with continuing obligations)
- Other (please describe)

Sanborn Maps: site is a _____ on map dated _____. Comments:

WisDOT historic plan sets: site is a _____ on project _____ dated _____. Comments:

Business directories: site is a _____ in the directory dated _____. Comments:

Aerial photos: site is a _____ on photo dated _____. Comments:

Contamination discovered at _____ feet during utility or other excavation in the area. Indicate location on site map.

Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)

- No evidence of tanks
- USTs ASTs; Location, number and condition of tanks, contents, comments:
 Location in relationship to current right of way: map attached
 Location in relationship to proposed right of way: map attached
- Drums Stained soils Odor Sheen on surface water Areas of excavation Areas of fill
- Stressed vegetation Pond(s) Basins/sumps Monitoring wells Soil borings

Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).

- Property is a potential source of contamination
- Adjacent property is a potential source of contamination. Include site name and address or BRRTS number if known, describe location, and include contaminant type and any additional information.
- Contaminated soil within proposed right of way from _____ feet to _____ feet below ground surface
- Contaminated groundwater within proposed right of way at _____ feet below ground surface.
- Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps or DNR form 4400-286 and plume maps.

Attachments – required

- Site photographs and a site map showing areas of concern
- Plat map showing parcel and any proposed areas of acquisition or easement
- Historic aerial photos of site - clearly outline site
- Historic WisDOT or other as-builts and plat maps - clearly outline site
- Plume maps for known contamination. Indicate existing or proposed right of way on plume maps where applicable.
- Closure letter with continuing obligations for sites closed with continuing obligations

Recommendations

- No additional hazardous materials investigation is required.
- If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
- Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
- Conduct additional investigation
 - Phase 2 (determine if contamination is present)
 - Phase 2.5 (determine extent of contamination within existing R/W only)
 - Phase 3 (determine full extent of contamination prior to acquisition)
 - Phase 4 (remediate site)
 - Other (describe)
- Site has continuing obligations. Coordination with DNR will be required.



Prepared by: Abby Buchholz on 6/3/2020

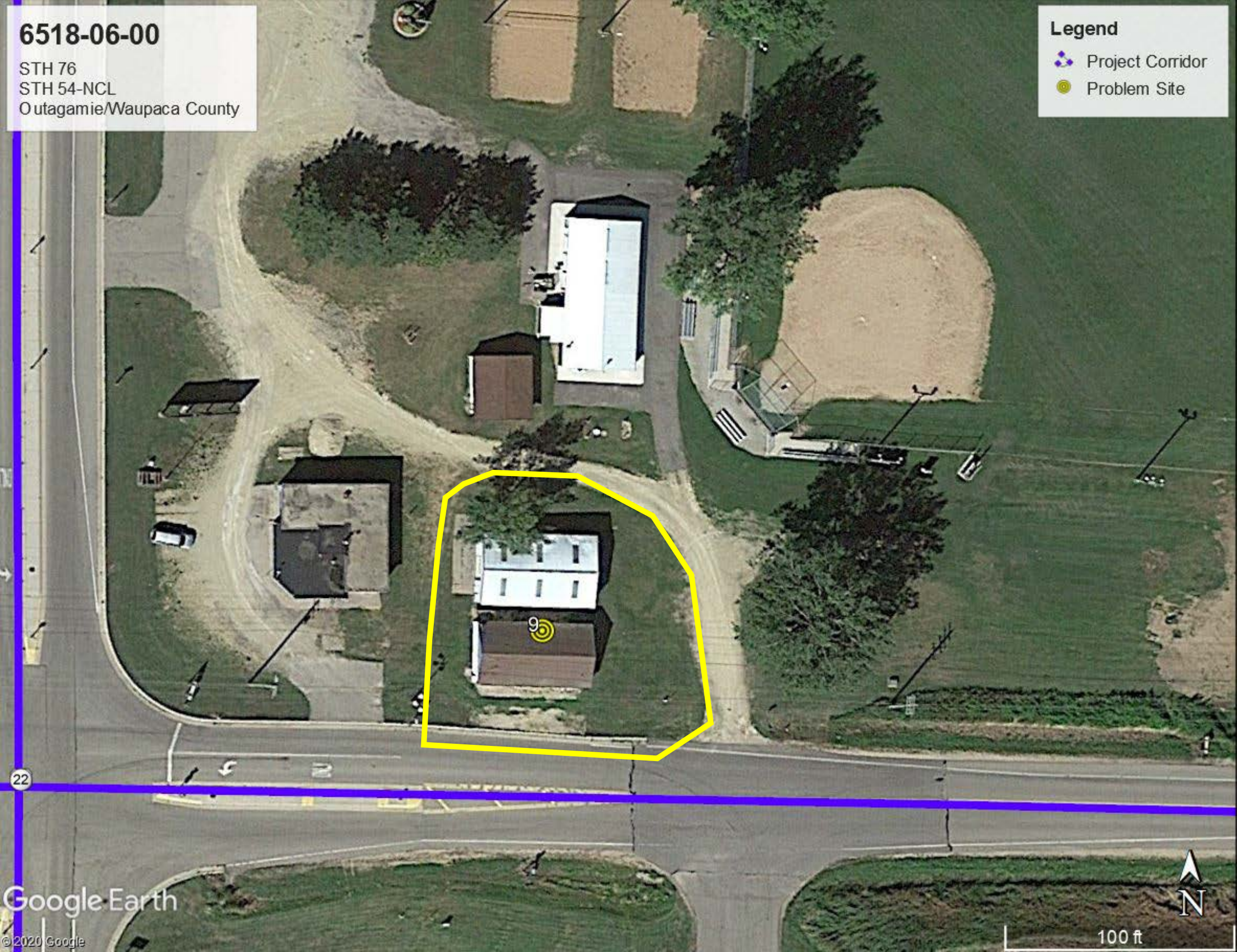
Recommendations accepted modified rejected by: Name and Title on

6518-06-00

STH 76
STH 54-NCL
Outagamie/Waupaca County

Legend

-  Project Corridor
-  Problem Site



Wisconsin Department of Natural Resources

Environmental Cleanup & Brownfields Redevelopment


BRRTS on the Web

Click the Location Name or FID below to view Location Details page for this Activity. Other Activities, if present, may be accessed from Location Details.

[< Basic Search](#)

CONTINUING OBLIGATIONS APPLY								
Due to remaining contamination, continuing obligations apply to one or more properties. For information specific to the continuing obligations review the documentation below. Prior to constructing or reconstructing a water supply well, you need to contact DNR for approval of well construction specifications.								
03-69-000214 DENNISON QUALITY OIL (FORMER)								
CLOSED LUST								
Location Name (Click Location Name or FID to View Location Details)				County		WDNR Region		
DENNISON QUALITY OIL				WAUPACA		NORTHEAST		
Address				Municipality				
8106 USH 45				BEAR CREEK				
PLSS Description			Latitude	Longitude	Google Maps	RR Sites Map		
SW 1/4 of the SE 1/4 of Sec 24, T24N, R14E			44.5318143	-88.7466305	CLICK TO VIEW	CLICK TO VIEW		
Additional Location Description					Size (Acres)		Facility ID	
STH 76/45/22					UNKNOWN		NONE	
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action			
DNR RR	54922-9999-18		1989-08-18	2000-08-10	2011-07-18			
Characteristics								
PECFA Tracked?	EPA NPL Site?	EPA Superfund?	PECFA Funds Eligible?	Above Ground Tank?	Drycleaner?	Co-Contamination?	WI DOT Site?	COs Apply?
Yes	No	No	Yes	No	No	No	No	Yes
Actions								
Place Cursor Over Action Code to View Description								
Date	Code	Name			Comment			
1989-08-18	1	Notification of Hazardous Substance Discharge						
1990-03-16	39	Remedial Action Options Report (RAOR) Received (non-fee)						

1990-11-21	<u>2</u>	Responsible Party (RP) letter sent	SI WORKPLAN DUE 12/25/90
1991-02-13	<u>37</u>	Site Investigation Report (SIR) Received (non-fee)	
1991-10-23	<u>41</u>	Remedial Action Report Received	
1992-02-11	<u>39</u>	Remedial Action Options Report (RAOR) Received (non-fee)	
1992-07-03	<u>38</u>	Site Investigation Report (SIR) Approved	
1992-08-20	<u>39</u>	Remedial Action Options Report (RAOR) Received (non-fee)	
1993-01-25	<u>40</u>	Remedial Action Options Report (RAOR) Approved	
1993-01-29	<u>43</u>	Site Activity Status Update Received	
1993-03-23	<u>41</u>	Remedial Action Report Received	
1993-07-28	<u>43</u>	Site Activity Status Update Received	
1993-09-30	<u>43</u>	Site Activity Status Update Received	
1994-04-12	<u>43</u>	Site Activity Status Update Received	QUARTERLY MONITORING & RA STATUS
1994-04-22	<u>43</u>	Site Activity Status Update Received	
1994-08-01	<u>43</u>	Site Activity Status Update Received	
1994-08-15	<u>43</u>	Site Activity Status Update Received	SYSTEM PERFORMANCE UPDATE
1994-10-04	<u>43</u>	Site Activity Status Update Received	AIR EMISSION RESULTS
1995-01-05	<u>43</u>	Site Activity Status Update Received	
1995-02-08	<u>43</u>	Site Activity Status Update Received	GW MONITORING & RA PERFORMANCE
1995-07-12	<u>43</u>	Site Activity Status Update Received	
1995-10-27	<u>43</u>	Site Activity Status Update Received	QUARTERLY MONITORING RESULTS
1996-01-08	<u>43</u>	Site Activity Status Update Received	
1996-01-26	<u>43</u>	Site Activity Status Update Received	GW MONITORING REPORT
1996-07-01	<u>43</u>	Site Activity Status Update Received	
1996-07-23	<u>43</u>	Site Activity Status Update Received	
1996-09-10	<u>41</u>	Remedial Action Report Received	
1996-11-07	<u>43</u>	Site Activity Status Update Received	
1999-11-11	<u>92</u>	Operation & Maintenance (O & M) Report Received (non-Fee)	
2000-01-07	<u>79</u>	Case Closure Review Request Received	
2000-02-17	<u>84</u>	Remaining Actions Needed	GW USE RESTRICTION AND MW ABANDONMENT
2000-08-10	<u>50</u>	GIS Registry Site	
2000-08-10	<u>56</u>	Continuing Obligation(s) Applied	*** AUTO-POPULATED ***
For Code 56: 20000810_56_CO_Packet.pdf Click to Download or Open			
2000-08-10	<u>236</u>	Continuing Obligation - Residual GW Contamination	*** AUTO-POPULATED ***
2000-08-10	<u>730</u>	CO Packet created for Recorded Groundwater Use Restriction	*** AUTO-POPULATED ***

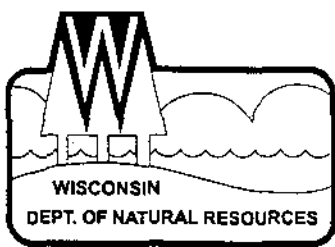
2000-08-10	11	Activity Closed					
2011-07-18	20	Potential Responsible Party (PRP) Letter Sent					
PECFA Claims Paid or Pending Payment							
Payments made from the Petroleum Environmental Cleanup Fund Award							
PECFA Site Name: Dennison's Quality Oil							
Maximum Reimbursement:	\$1,000,000	Total Amount Paid:				\$394,724.11	
Occ No 	Claim No	Audit Date	Paid Date	Amt Submitted	Amt Ineligible	Amt Paid	
A	1	1992-07-06	1994-05-25	\$43,844.67	\$6,684.99	\$37,159.68	
A	2	1994-09-22	1995-05-16	\$207,139.53	\$137,134.51	\$67,505.02	
A	2	1994-09-22	1995-04-13	\$0.00	\$0.00	\$134,640.69	
A	3	1996-02-07	1996-12-05	\$39,354.15	\$37.18	\$39,316.97	
A	4	1997-07-07	1999-08-20	\$55,727.95	\$195.93	\$55,532.02	
A	5	1999-09-23	2000-05-18	\$46,282.07	\$2.33	\$46,279.74	
A	6	2000-09-21	2001-01-04	\$16,292.71	\$2,002.72	\$14,289.99	
Who							
Role		Name/Address					
Responsible Party		DENNISON OIL CO BEAR CREEK, WI 54922					

For Additional Information, Please Contact

DENISE DANELSKI 920-662-5494 denise.danelski@wisconsin.gov

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors in the data and delays in updating new information. Please see the [disclaimers page](#) for more information. We welcome your [Feedback](#).

The Official Internet site for the Wisconsin Department of Natural Resources
101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ronald W. Kazmierczak, Regional Director

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Shawano, Wisconsin 54166-3843
Telephone 715-524-2183
FAX 715-524-3214

August 10, 2000

Mrs. Karen Conradt
PO Box 12
Bear Creek, WI 54922

COPY

Subject: Case Closure with Restrictions for Former Dennison Quality Oil, Corner of Highway 45 and 76, Bear Creek, WI; DNR Case # 03-69-000214.

Dear Mrs. Conradt:

I have received the 1) the monitoring well abandonment forms (Form 3300-05B) for all monitoring wells related to the above case and 2) documentation that the current owner, Mr. Donald Wegner, has filed the groundwater use restriction. These items were a condition of case closure as indicated in my letter to you on February 17, 2000.

The Department considers this case closed and will remove it from our active list on our case tracking system. Please be aware that this letter does not absolve the current or any future owner of this property from future decisions regarding this site or impacts which may be discovered and/or traced back to past or future activities at this site. If additional information in the future indicates that further investigation or cleanup is warranted, the Department will require that appropriate action be taken at that time. If you have questions regarding this letter, you may contact me at (715) 526-4230.

Sincerely,

Tom Sturm,
Hydrogeologist
Remediation and Redevelopment Program
E-mail: sturmt@dnr.state.wi.us

Cc: Mr. Donald Wegner – E7598 Neitzke Rd., Clintonville, WI 54929
Richard Mazurkiewicz – Delta Environmental Consultants, 15700 West Cleveland Ave., New Berlin, WI 53151



Dennison's Quality Oil, Inc.

conveys and warrants to Donald L. Wegner

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

REGISTER'S OFFICE WAUPACA COUNTY WI RECEIVED FOR RECORD

DEC 5 1995

At 3:00 o'clock P.M. and recorded In Vol. 820 Page 380

THIS SPACE RESERVED FOR RECORDING DATA

NAME AND RETURN ADDRESS

GERALD E. CONNOLLY ATTORNEY AT LAW 135 A So. Main St. Waupaca, WI 54982

The South 4 rods of the West 40 rods of the Southwest 1/4 of the Southeast 1/4 EXCEPT the parcel conveyed for highway purposes as described in Volume 273 of Deeds at page 44, as Document No. 262793, and ALSO EXCEPT land described in Volume 386 of Records at page 392, as Document No. 313088; AND

The North 10 feet of the South 142 feet of the West 240 feet of the Southwest 1/4 of the Southeast 1/4 EXCEPT the West 60 feet conveyed for highway purposes;

All in Section 24, Township 24 North, Range 14 East, Town of Bear Creek, Waupaca County, Wisconsin.

Lot 1 of Certified Survey map No. 2227 recorded in the office of the Register of Deeds for Waupaca County, Wisconsin on May 29, 1986 in Volume 7 of Certified Survey Maps on page 189 as Document No. 438318, being part of Lot 1 of Certified Survey Map No. 1763 as recorded in the office of the Register of Deeds for Waupaca County, Wisconsin on June 9, 1983 in Volume 5 of Certified Survey Maps on page 427 as Document No. 415718, and part of the Southwest 1/4 of the Southeast 1/4, Section 24, Township 24 North, Range 14 East, Town of Bear Creek, Waupaca County, Wisconsin. TOGETHER WITH and SUBJECT to easements and conditions contained in Warranty Deed recorded in the office of the Register of Deeds for Waupaca County, Wisconsin on June 2, 1986 in Volume 621 of Records on page 867 as Document No. 438421.

This is not homestead property.

TRANSFER FEE PAID IN FULL 165.00

Exception to warranties: Easements, zoning ordinances and other restrictions of record.

Dated this 10th day of November, 1995

DENNISSON'S QUALITY OIL, INC.

By: Grace Dennison, Karen Dennison Konrad

AUTHENTICATION

ACKNOWLEDGMENT

Signatories:

STATE OF WISCONSIN

authenticated this 10th day of November, 1995

Ozaukee County, Wisconsin Personally came before me this 10th day of November 1995 the above named Grace Dennison and Karen Dennison Konrad, Officers of Dennison's Quality Oil, Inc.

TITLE: MEMBER STATE BAR OF WISCONSIN (If not authorized by 706.06, Wis. Stats.)

to me known to be the person who executed the foregoing instrument and acknowledge the same.

THIS INSTRUMENT WAS DRAFTED BY Attorney Robert E. Sorenson, Hortonville, WI 54944

Notary Public My commission is permanent or not, state expiration date: 1995

*Names of persons signing in last capacity should be typed or printed below their signatures

OFFICE OF REGISTER OF DEEDS, Waupaca County, Wisconsin

I, George E. Jorgensen Register

of Deeds of said Waupaca County, do hereby certify that I have compared the within and foregoing copy of WARRANTY DEED with the record of the same recorded in my office, and that said copy is a true and correct transcript and copy of such Record and of the whole thereof.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed Official

MAR 27 2000

Seal this

Register of Deeds, Waupaca County, Wisconsin.

I HEREBY CERTIFY THAT I HAVE COMPARED THE ABOVE AND FOREGOING DOCUMENTS IN ACCORDANCE WITH AND WITH STANDARDS ESTABLISHED BY S.S. 889 (6) AND WITH ESTABLISHED PROCEDURES, MARSHA MATRAS, MICROFILM TECHNICIAN, WAUPACA COUNTY COURTHOUSE, WAUPACA, WI 54981

Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

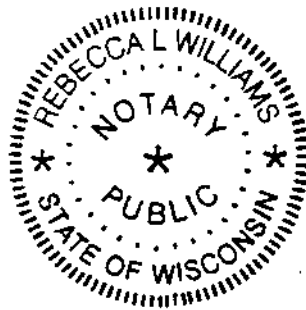
IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 12 day of JUNE, 2000.

Signature: Donald L. Wegner

Printed Name: Donald L. Wegner

Subscribed and sworn to before me this 12th day of June, 2000

Rebecca L. Williams
Notary Public, State of Wisconsin
My commission expires 10/12/03



This document was drafted by the Wisconsin Department of Natural Resources based on information submitted by Delta Environmental Consultants..

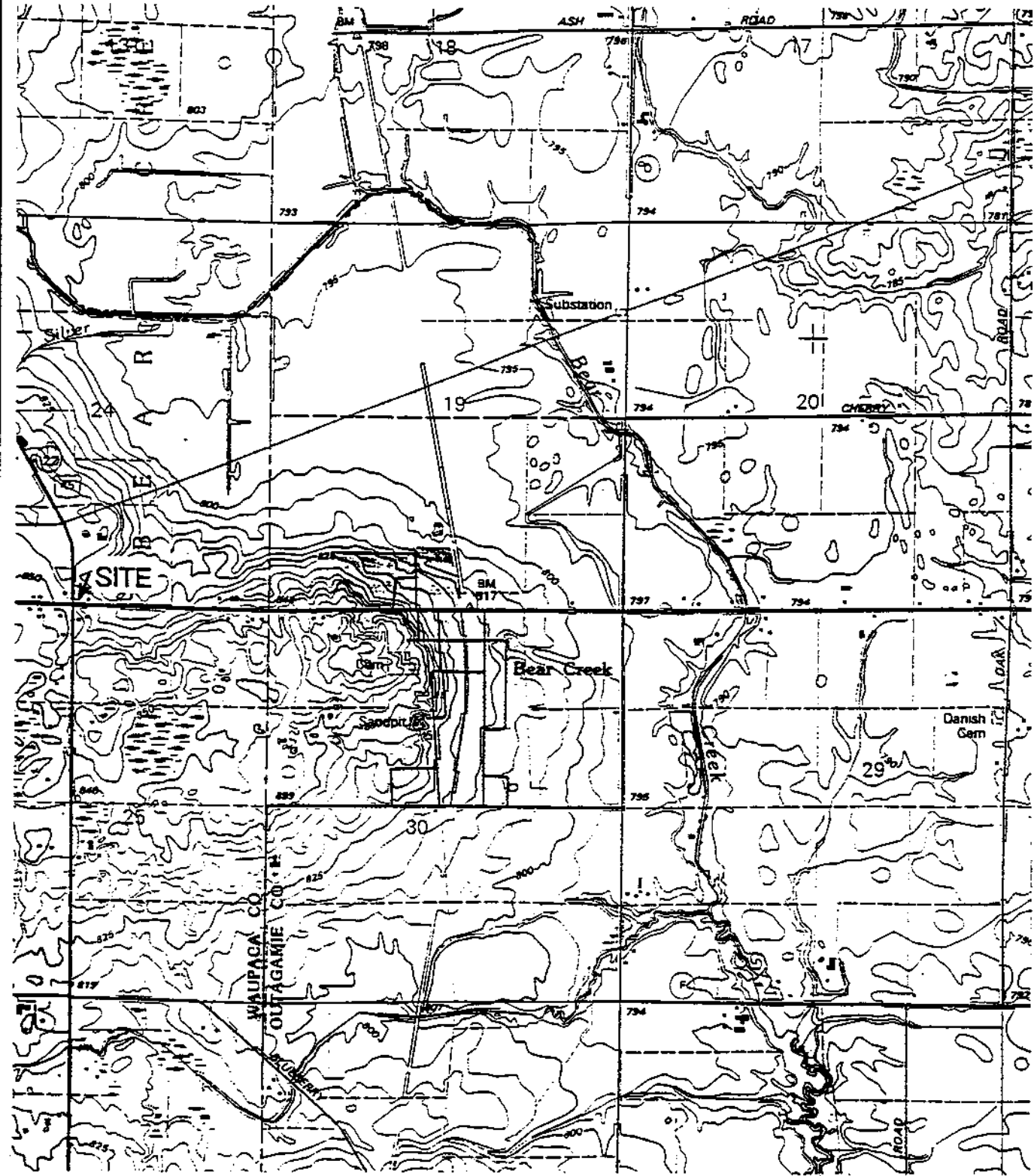
EXHIBIT A

The South 4 rods of the West 40 rods of the Southwest $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ EXCEPT the parcel conveyed for highway purposes as described in Volume 273 of Deeds at page 44 as Document No. 262793, and ALSO EXCEPT land described in Volume 386 of records at page 392, as Document 313088; AND

The north 10 feet of the South 142 feet of the Southwest $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ EXCEPT the West 60 feet conveyed for highway purposes;

All in Section 24, Township 24 North, Range 14 East, Town of Bear Creek, Waupaca County, Wisconsin.

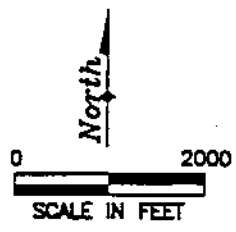
Lot 1 of Certified Survey map No. 2227 recorded in the office of the Register of Deeds for Waupaca County, Wisconsin on May 29, 1986 in Volume 7 of Certified Survey Maps on page 189 as Document No. 438318, being part of Lot 1 of Certified Survey Map No. 1763 as recorded in the office of the Register of Deeds for Waupaca County, Wisconsin on June 9, 1983 in Volume 5 of Certified Survey Maps on page 427 as Document No. 415718, and part of the Southwest $\frac{1}{4}$ of the Southeast $\frac{1}{4}$, Section 24, Township 24 North, Range 14 East, Town of Bear Creek, Waupaca County, Wisconsin. TOGETHER WITH and SUBJECT to easements and conditions contained in the Warranty Deed recorded in the office of the Register of Deeds for Waupaca County, Wisconsin on June 2, 1986 in Volume 621 of Records on page 867 as Document No. 438421.



**BEAR CREEK QUADRANGLE
WISCONSIN
7.5 MINUTE SERIES (TOPOGRAPHIC)**



QUADRANGLE LOCATION



**FIGURE 1
SITE LOCATION MAP**

**FORMER DENNISON QUALITY OIL CO.
BEAR CREEK, WISCONSIN**

PROJECT NO. 1093-506	PREPARED BY GGG
DATE 08/18/97	REVIEWED BY





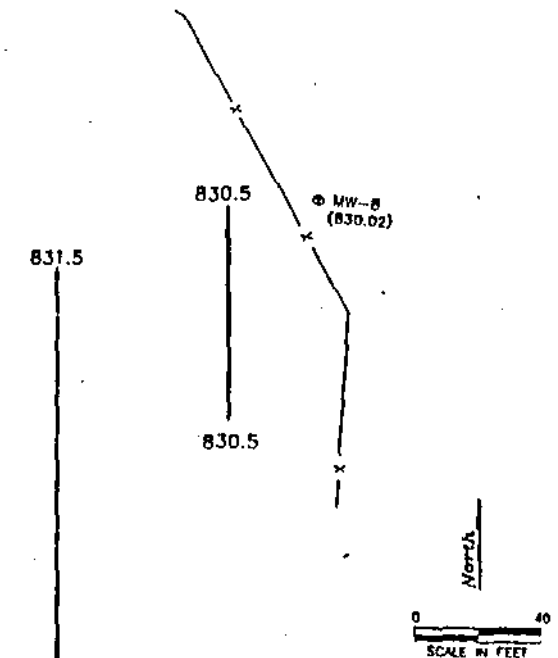
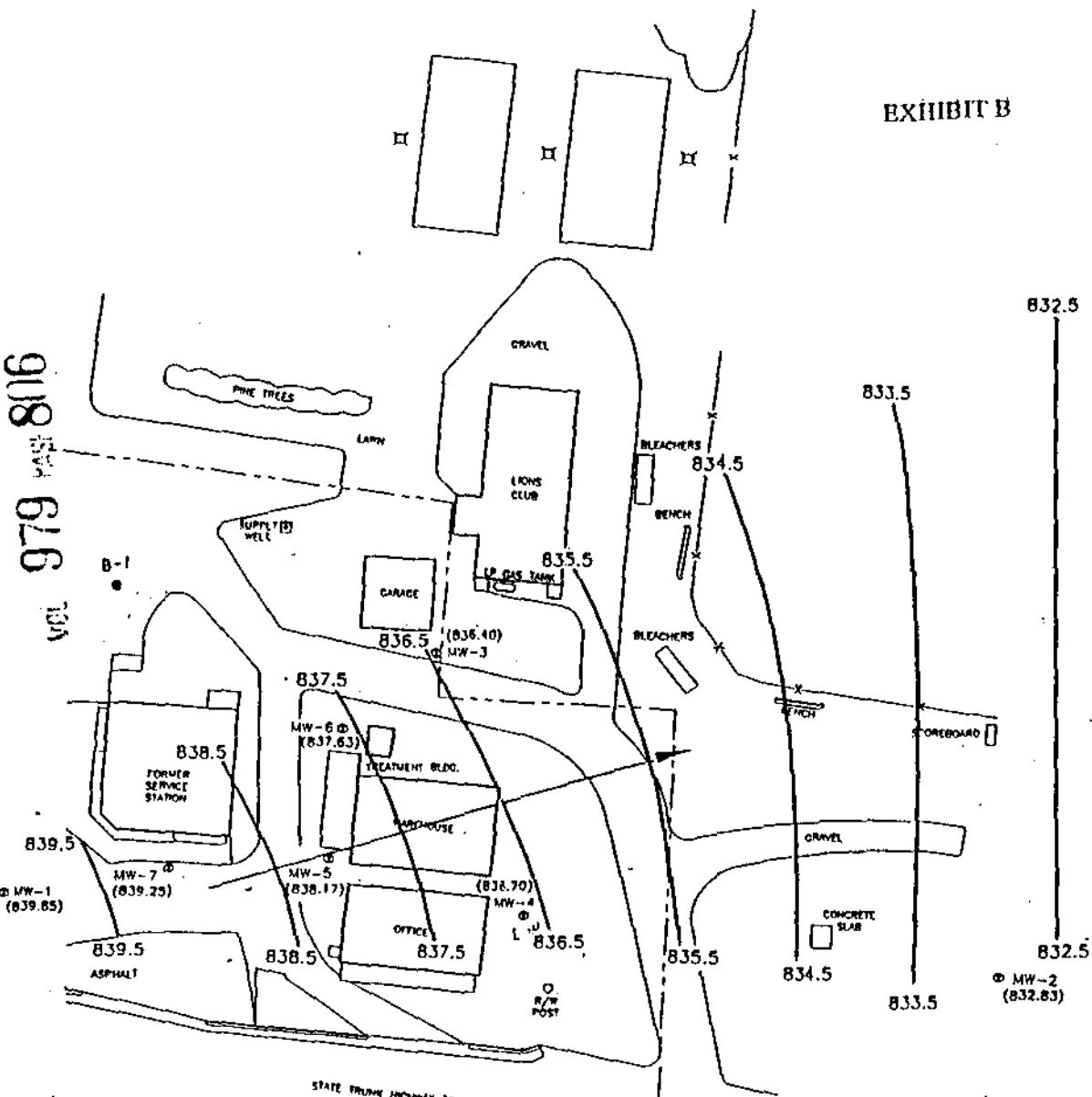
- LEGEND:**
- APPROXIMATE PROPERTY BOUNDARY
 - x- FENCE
 - ⊕ MONITORING WELL LOCATION
 - x SOIL SAMPLE
 - ⊗ SOIL VENT LINE ACCESS MANHOLE
 - SPARGE POINT
 - ⊠ PRIVATE WELL LOCATION
 - ⊙ RECOVERY WELL
 - - - SLOTTED HORIZONTAL SOIL VAPOR EXTRACTION LINES
 - SOLID HORIZONTAL SOIL VAPOR EXTRACTION LINES

FIGURE 2
SITE PLAN
 FORMER DENNISON QUALITY OIL CO.
 BEAR CREEK, WISCONSIN

PROJECT NO. 1083-506	PREPARED BY RM	DRAWN BY DD	
DATE 11/10/99	REVIEWED BY	FILE NAME 93506SM	

EXHIBIT B

VEL 979 PAGE 8016



- LEGEND:**
- - - - - APPROXIMATE PROPERTY BOUNDARY
 - x - x - FENCE
 - ⊙ MONITORING WELL LOCATION
 - 834.0 GROUNDWATER CONTOUR LINE
CONTOUR INTERVAL = 1.0 FEET
 - (836.40) GROUNDWATER ELEVATION (FT.)
 - GROUNDWATER FLOW DIRECTION
- APPROXIMATE HYDRAULIC GRADIENT (MW-1, MW-6),
dh/dl = 0.018 ft/ft

GROUNDWATER ELEVATION CONTOUR MAP
MARCH 11, 1999
FORMER DENNISON QUALITY OIL CO.
BEAR CREEK, WISCONSIN

PROJECT NO. 1083-508	PREPARED BY RM	DRAWN BY OD	DATE 12/99
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TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. I093-506

MW-1										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Volatile Organic Compounds									DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L							
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.1	NM	19	4600	7.2	1.0	1.0
12/14/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.6	NM	NM	NM	NM	NM	NM
03/27/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.3	162	NM	NM	NM	NM	NM
06/18/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/11/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	4.4	<50	1.6	-041	16	5400	7.1	4.0	6.0
12/16/96	<5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<50	1.8	-017	8	3600	7.1	0.20	0.10
03/12/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.9	-003	NM	NM	NM	NM	NM
06/25/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.3	133	NM	NM	NM	NM	NM
09/25/97	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<1.9	<50	4.9	-078	17	1600	7.2	10.00	10.00
12/15/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.8	015	NM	NM	NM	NM	NM
03/18/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.0	042	NM	NM	NM	NM	NM
06/17/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.8	031	NM	NM	NM	NM	NM
09/16/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<0.16	<50	0.8	-061	18	600	7.0	10+	8
12/02/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.9	171	NM	NM	NM	NM	NM
03/11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.3	025	NM	NM	NM	NM	NM

MW-2										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Volatile Organic Compounds									DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L							
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	ND	ND	ND	ND	ND	ND	NA	1.2	ND	3.1	NM	16	2300	7.2	0.6	0.4
12/14/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.7	NM	NM	NM	NM	NM	NM
03/27/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.5	205	NM	NM	NM	NM	NM
06/18/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM	NM
09/11/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	12	<50	1.2	056	14	1800	7.0	0.2	0.1
12/16/96	<5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<6.0	<50	1.8	062	8	2500	7.0	0.20	0.10
03/12/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.7	073	NM	NM	NM	NM	NM
06/25/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.2	114	NM	NM	NM	NM	NM
09/25/97	1.2	<0.20	<0.22	<0.23	<0.29	<0.22	1.7	<9.7	<50	4.7	-015	14	600	7.2	7.00	6.00
12/15/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.2	-016	NM	NM	NM	NM	NM
03/18/98	0.36	<0.20	<0.22	<0.23	<0.29	<0.22	<1.1	6.1	<50	1.2	-030	7	200	7.8	10+	8.0
06/17/98	1.3	<0.20	<0.22	<0.23	<0.29	<0.22	<1.1	7.3	<50	0.6	028	15	200	7.8	8.0	6.0
09/16/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<2.0	<50	1.0	-036	15	300	7.6	5.0	1.0
12/02/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.0	168	NM	NM	NM	NM	NM
03/11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.3	040	NM	NM	NM	NM	NM

TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. I093-506

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
MW-3																
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	30	35	<5	350	210	<200	54	<5	2300	1.9	NM	19	1700	7.3	5.0	3.0
12/14/95	51	<5	<5	72	90	37	10	<20	1400	7.1	NM	8	1200	7.2	2.0	1.0
03/27/96	41	2.7	5.5	130	130	41	17	<1	1300	8.9	302	4	2400	7.2	0.8	0.2
06/18/96	16	2	2.2	58	18	46	7.1	<1.0	750	3.4	040	15	700	7.1	0.6	0.4
09/11/96	72	9.2	9.3	120	30	94	25	<1.0	1400	2.4	-081	15	2700	7.0	2.0	0.6
12/16/96	32	21	17	86	19	58	13	<12	970	0.8	-086	8	3100	7.1	4.0	2.0
03/12/97	28	2	4.2	29	11	30	4.7	<6.0	380	8.3	111	3	2400	7.1	0.4	0.2
06/25/97	69	1.7	9.2	16	6.2	19	4.9	<0.16	490	1.5	127	14	1200	7.5	0.2	0.1
09/25/97	27	31	21	85	38	130	20	<0.32	2800	3.7	-083	18	600	7.1	6.0	5.0
12/15/97	5.4	3.5	14	40	14	75	16	10	1800	0.2	035	10	800	7.5	>10	7.0
03/18/98	17	<17	9.1	100	53	160	23	<5.1	2200	0.3	-020	5	300	7.5	3.0	2.0
06/17/98	21	12	11	49	27	86	12	<6.8	1900	0.2	-093	18	300	7.6	10+	10.0
09/16/98	14	20	11	45	14	65	11	<7.8	980	0.3	-121	20	500	7.1	10+	10+
12/02/98	32	77	60	130	15	130	39	16	2000	0.2	-100	13	200	7.5	10+	10+
03/11/99	13	10	11	98	18	88	17	<0.67	1600	0.2	-023	NM	NM	NM	NM	NM

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
MW-4																
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	130	3.7	110	11	6.9	<5	7.4	<2	700	2.0	NM	18	4400	7.3	10.0	10.0
12/14/95	52	1.3	42	<3	1.3	<1	1.7	<10	450	6.1	NM	7	2400	7.1	3.0	2.0
03/27/96	14	<1	15	<1	<1	<1	1.1	<10	200	8.4	330	5	4500	7.1	NA	NA
06/18/96	21	<1.0	22	<3.0	1.5	2.1	1.6	<1.0	300	1.4	-066	13	4000	7.1	8.0	6.0
09/11/96	9.1	<1.0	10	<3.0	<1.0	1.1	<3.0	<28	260	1.2	-073	15	4000	7.1	>10	>10
12/16/96	4.9	<1.0	1.7	<3.0	<1.0	<1.0	<1.0	<1.0	120	1.2	-022	9	3600	7.1	>10	>10
03/12/97	1.1	<0.20	0.89	0.34	<0.29	<0.22	<0.46	7.9	<50	11.7	183	3	4100	7.4	1.0	0.8
06/25/97	8	0.39	1.9	0.97	<0.29	0.48	<2.0	<0.16	81	1.3	069	14	3500	6.8	8.0	6.0
09/25/97	12	0.44	1	0.53	<0.29	0.32	<0.46	<12	<50	4.4	-074	16	1200	7.1	10.0	8.0
12/15/97	1.6	0.25	0.99	0.48	<0.29	0.41	0.88	<0.16	53	0.2	-054	13	700	7.4	>10	>10
03/18/98	4.9	0.53	1.6	1.7	0.34	1.0	<1.1	<6.5	100	0.4	-032	6	300	7.5	10+	10+
06/17/98	2.8	0.33	2.0	1.0	<0.29	1.1	1.2	4	<50	0.9	-063	17	300	7.6	10+	10+
09/16/98	1.1	0.24	0.42	<0.23	<0.29	0.29	0.53	<3.1	<50	0.3	-108	16	600	7.1	10+	10+
12/02/98	1.2	<0.20	0.26	<0.23	<0.29	0.42	0.59	2.7	120	0.2	-057	13	200	7.4	10+	10+
03/11/99	4.0	0.33	0.33	0.97	<0.29	<0.22	<1.1	6.0	87	0.2	-060	NM	NM	NM	NM	NM

TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. 1093-506

MW-5										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Volatile Organic Compounds									DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L							
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	3900	2200	220	3400	500	<200	<300	<50	17000	0.8	NM	19	5600	7.3	10.0	10.0
12/14/95	280	160	49	710	140	140	<40	<100	7600	1.2	NM	7	5000	7.5	10.0	10.0
03/27/96	2000	610	<100	1900	310	<380	<2,200	<100	20000	1.0	059	5	4900	7.2	10.0	10.0
06/18/96	300	170	54	1100	91	190	<50	<50	3300	0.9	-072	15	4800	6.8	10.0	10.0
09/11/96	2100	640	150	2300	180	380	250	<50	21000	0.2	-121	14	4900	6.9	>10	>10
12/16/96	760	280	65	1500	140	280	460	<20	5500	0.5	-136	8	5100	7.2	>10	>10
03/12/97	140	36	15	240	38	66	19	<4.0	1300	4.1	-035	3	4200	7.1	9.0	5.0
06/25/97	560	170	63	1000	100	200	14	<0.80	5500	1.2	-041	15	4000	6.9	>10	>10
09/25/97	770	260	110	1800	190	380	140	<16	6000	1.9	-141	19	2000	7.0	>10	>10
12/15/97	920	230	120	1300	140	270	42	38	12000	1.2	014	12	1400	7.2	>10	>10
03/18/98	610	190	89	1200	130	250	89	<16	5600	0.2	-069	6	600	7.2	10+	10+
06/17/98	480	200	140	1800	240	490	<370	<8.0	24000	0.9	-125	19	800	7.6	10+	10+
09/16/98	150	52	44	660	140	260	170	<6.9	7800	0.2	-150	19	1200	7.2	10+	10+
12/02/98	100	38	18	500	98	150	30	9.7	3800	0.2	-117	13	500	7.4	10+	10+
03/11/99	230	84	<44	720	110	210	170	<32	20000	0.2	-142	NM	NM	NM	NM	NM

MW-6										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Volatile Organic Compounds									DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH s.u.	Iron (T) ppm	Iron (S) ppm
	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L							
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	2.1	<1	<1	<3	<1	<1	<1	<1	<50	1.7	NM	19	1300	7.4	0.4	0.2
12/14/95	0.77	<1	<1	<3	1.3	<1	1.3	<1	82	5.2	NM	7	800	7.2	0.4	0.2
03/27/96	<0.50	<1	<1	<3	<1	<1	<1	<1	<500	11.0	223	4	1700	7.1	0.4	0.2
06/18/96	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<50	7.1	125	14	1300	7.0	0.1	0.0
09/11/96	3.6	1	<1.0	<3.0	<1.0	1	<1.0	<1.0	85	1.9	-014	15	2100	6.9	7.0	5.0
12/16/96	3.7	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	6.9	<50	1.7	-094	8	1500	7.0	0.4	0.2
03/12/97	<0.13	<0.20	<0.22	<0.40	<0.29	0.45	<0.46	2.3	<50	10.7	201	4	900	7.5	0.4	0.2
06/25/97	4.2	0.25	0.6	3.1	1.8	1.9	1.1	<2.2	72	5.8	189	14	1100	7.4	0.4	0.2
09/25/97	1.0	0.38	0.24	1.1	0.67	1.2	1.2	<3.3	57	4.5	040	18	1000	7.6	10.0	7.0
12/15/97	1.1	0.34	0.78	2.6	1.6	2.9	1.9	<0.16	54	9.6	044	11	900	7.9	7.0	5.0
03/18/98	1.2	0.36	1.4	1.2	0.98	1.9	<1.7	<0.81	130	1.0	038	6	400	7.6	2.0	0.6
06/17/98	0.84	0.24	0.8	1.4	1.2	2.4	<1.1	<0.16	140	0.4	-025	18	300	7.5	10+	10+
09/16/98	2.6	1.0	2.1	3.6	3.8	3.5	1.6	<1.9	210	0.2	-210	18	700	7.4	10+	10+
12/02/98	1.8	<0.20	<0.22	0.51	0.34	0.79	1.2	<0.16	160	0.2	-085	13	200	7.5	10+	10+
03/11/99	1.1	0.65	0.81	1.4	1.5	2.1	<1.1	<0.16	160	0.2	-086	NM	NM	NM	NM	NM

TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. I093-506

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH a.u.	Iron (T) ppm	Iron (S) ppm
MW-7	5.0	343	700	620	480		40	60								
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	340	1600	850	3400	1300	<1100	200	<100	14000	1.4	NM	20	5100	7.3	10.0	10.0
12/14/95	360	2000	740	3400	1100	330	290	<100	12000	1.3	NM	7	4800	7.5	10.0	10.0
03/27/96	470	5200	1200	6500	1600	<1400	540	<100	24000	0.5	-018	4	6500	7.3	10.0	10.0
06/18/96	400	3200	1300	5400	410	1600	500	<20	20000	0.3	-103	150	5700	7.2	10.0	10.0
09/11/96	260	2200	1100	3300	310	1300	510	<10	17000	0.2	-102	17	5200	7.1	>10	>10
12/16/96	300	2700	1000	3300	370	1400	310	<20	13000	0.6	-120	8	5400	7.2	>10	>10
03/12/97	140	1600	740	3400	510	1400	320	<8.0	12000	2.8	-071	3	6800	7.1	>10	10.0
06/25/97	120	660	830	2700	320	1300	380	<3.2	13000	1.3	-048	15	5800	7.0	>10	>10
09/25/97	110	1400	730	3100	350	1300	250	<3.2	14000	2.5	-136	18	1800	7.1	>10	>10
12/15/97	80	2900	1100	5100	470	1700	520	<6.4	21000	0.2	-137	12	1600	7.4	>10	>10
03/18/98	73	1600	860	3400	390	1400	330	<3.5	17000	0.2	-099	7	600	7.3	10+	10+
06/17/98	56	1000	740	2900	330	1200	310	<3.2	14000	0.8	-124	17	400	7.5	10+	10+
09/16/98	38	490	520	2100	270	930	340	<8.0	11000	0.2	-164	20	1200	7.2	10+	10+
12/02/98	30	200	480	2100	380	1300	500	21	11000	0.2	-120	13	300	7.5	10+	10+
03/11/99	55	160	330	1400	300	950	400	<2	10000	0.2	-156	NM	NM	NM	NM	NM

1250

Volatile Organic Compounds										In-field Biodegradation Measurements						
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L	DO ppm	REDOX mV	Temp °C	Conductivity µS/cm	pH a.u.	Iron (T) ppm	Iron (S) ppm
MW-8	5.0	343	700	620	480		40	60								
NR 140 ES	5.0	343	700	620	480		40	60								
09/13/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	NM	17	700	7.1	0.2	0.1
12/14/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.4	NM	NM	NM	NM	NM	NM
03/27/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.3	125	NM	NM	NM	NM	NM
06/18/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM	NM
09/11/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	2.9	<50	1.5	098	15	500	7.0	0.1	0.0
12/16/96	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<50	1.3	087	8	800	7.0	0.2	0.1
03/12/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.5	094	NM	NM	NM	NM	NM
06/25/97	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	0.55	<0.16	<50	1.3	139	14	500	7.6	0.1	0.0
09/25/97	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<0.16	<50	4.3	047	15	400	7.6	0.6	0.3
12/15/97	<0.13	<0.20	<0.22	0.34	<0.29	<0.22	<0.46	<0.16	<50	1.2	017	12	300	7.9	0.3	0.2
03/18/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.8	036	NM	NM	NM	NM	NM
06/17/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.5	106	NM	NM	NM	NM	NM
09/16/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<0.16	<50	0.7	087	16	200	7.8	0.6	0.3
12/02/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.2	149	NM	NM	NM	NM	NM
03/11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.6	023	NM	NM	NM	NM	NM

TABLE 2

GROUNDWATER CHEMISTRY AND BIODEGRADATION DATA SUMMARY

Former Dennison Quality Oil

Bear Creek, WI

Delta No. I093-506

Lion's Club Well									
Volatile Organic Compounds									
Parameter/ Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	1,3,5- TMB ug/L	1,2,4- TMB ug/L	Naphthalene ug/l	MTBE ug/L	GRO ug/L
NR 140 ES	5.0	343	700	620	480		40	60	
06/18/96	<0.30	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<50
12/16/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/25/97	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	0.49	<50
12/15/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/18/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/17/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<1.1	<0.16	<50
09/16/98	<0.13	<0.20	<0.22	<0.23	<0.29	<0.22	<0.46	<0.16	<50
12/02/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES

°C = Degrees Centigrade

µg/l = micrograms per liter

µS/cm = microSiemens per centimeter

DO = Dissolved Oxygen

GRO = Gasoline Range Organics

MTBE = Methyl tert-butyl ether

mV = Millivolts

NA = Parameter not analyzed.

NM = Not measured

NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standards

NS = No Sample collected

ppm = parts per million

S = Soluble

Shaded cells indicate results equal to or greater than NR 140 ES

T=Total

Temp. = Temperature

TMB = Trimethylbenzene

To go back to your search results please click the back arrow  in the above Toolbar

Tank Details

Site and Owner

Site Info

Facility ID: 69365
 DENNISON QUALITY OIL CO
 State Highway 45 & 76 & 22
 Bear Creek
 Site Anniversary Date:

County & Municipality

Outagamie County
 Fire Dept ID: 4419
 Dispenser Has Sumps: N

Owner

Grace Dennison
 Po Box 12
 Bear Creek
 WI 54922-0012

Underground Storage Tank - ID: 317717, WANG ID: 441900122, Closed/Removed as of 1995-09-13

Install Date:		Capacity In Gallons:	500	Contents:	Fuel Oil
Tank Occupancy:	Retail Fuel Sales	Marketer:	N	CAS Number	
Federally Regulated:	No	Spill Protection:	Not Installed	Overfill Protection:	Not Installed
Overfill Prot Type:	Not Installed	Containment Sump Installed:		Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	N
Leak Detection:	Unknown	Wall Type:			
Leak Test Method:					
Construction Material:	Coated Steel				

PIPING -

Flex Connectors:		UST Mainfolded:		Related Tank ID:	
Type:		Aboveground Piping:	N	Aboveground Pipe Cons:	
Construction Material:		Corrosion Protect Type:		Leak Detection:	
Catastrophic Leak Detection:				Leak Test Method:	
				Pipe Wall Type:	
				Piping System Type:	

Inspection Test Dates

Test Type	Test Date	Test Expire Date

To go back to your search results please click the back arrow  in the above Toolbar

Tank Details

Site and Owner

Site Info

Facility ID: 69365
 DENNISON QUALITY OIL CO
 State Highway 45 & 76 & 22
 Bear Creek
 Site Anniversary Date:

County & Municipality

Outagamie County
 Fire Dept ID: 4419
 Dispenser Has Sumps: N

Owner

Grace Dennison
 Po Box 12
 Bear Creek
 WI 54922-0012

Underground Storage Tank - ID: 317718, WANG ID: 441900123, Closed/Removed as of 1989-08-18

Install Date:		Capacity In Gallons:	6,000	Contents:	Unleaded Gasoline
Tank Occupancy:	Retail Fuel Sales	Marketer:	N	CAS Number	
Federally Regulated:	Yes	Spill Protection:	Not Installed	Overfill Protection:	Not Installed
Overfill Prot Type:	Not Installed	Containment Sump Installed:		Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	N
Leak Detection:	Unknown	Wall Type:			
Leak Test Method:					
Construction Material:	Bare Steel				

PIPING -

Flex Connectors:		UST Mainfolded:		Related Tank ID:	
Type:		Aboveground Piping:	N	Aboveground Pipe Cons:	
Construction Material:		Corrosion Protect Type:		Leak Detection:	
Catastrophic Leak Detection:				Leak Test Method:	
				Pipe Wall Type:	
				Piping System Type:	

Inspection Test Dates

Test Type	Test Date	Test Expire Date

To go back to your search results please click the back arrow  in the above Toolbar

Tank Details

Site and Owner

Site Info

Facility ID: 69365
 DENNISON QUALITY OIL CO
 State Highway 45 & 76 & 22
 Bear Creek
 Site Anniversary Date:

County & Municipality

Outagamie County
 Fire Dept ID: 4419
 Dispenser Has Sumps: N

Owner

Grace Dennison
 Po Box 12
 Bear Creek
 WI 54922-0012

Underground Storage Tank - ID: 317719, WANG ID: 441900124, Closed/Removed as of 1989-08-18

Install Date:		Capacity In Gallons:	6,000	Contents:	Unleaded Gasoline
Tank Occupancy:	Retail Fuel Sales	Marketer:	N	CAS Number	
Federally Regulated:	Yes	Spill Protection:	Not Installed	Overfill Protection:	Not Installed
Overfill Prot Type:	Not Installed	Containment Sump Installed:		Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	N
Leak Detection:	Unknown	Wall Type:			
Leak Test Method:					
Construction Material:	Bare Steel				

PIPING -

Flex Connectors:		UST Mainfolded:		Related Tank ID:	
Type:		Aboveground Piping:	N	Aboveground Pipe Cons:	
Construction Material:		Corrosion Protect Type:		Leak Detection:	
Catastrophic Leak Detection:				Leak Test Method:	
				Pipe Wall Type:	
				Piping System Type:	

Inspection Test Dates

Test Type	Test Date	Test Expire Date

To go back to your search results please click the back arrow  in the above Toolbar

Tank Details

Site and Owner

Site Info

Facility ID: 69365
DENNISON QUALITY OIL CO
State Highway 45 & 76 & 22
Bear Creek
Site Anniversary Date:

County & Municipality

Outagamie County

Fire Dept ID: 4419

Dispenser Has Sumps: N

Owner

Grace Dennison
Po Box 12
Bear Creek
WI 54922-0012

Underground Storage Tank - ID: 317720, WANG ID: 441900125, Closed/Removed as of 1989-08-18

Install Date:		Capacity In Gallons:	8,000	Contents:	Diesel
Tank Occupancy:	Retail Fuel Sales	Marketer:	N	CAS Number	
Federally Regulated:	Yes	Spill Protection:	Not Installed	Overfill Protection:	Not Installed
Overfill Prot Type:	Not Installed	Containment Sump Installed:		Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	N
Leak Detection:	Unknown	Wall Type:			
Leak Test Method:					
Construction Material:	Bare Steel				

PIPING -

Flex Connectors:		UST Mainfolded:		Related Tank ID:	
Type:		Aboveground Piping:	N	Aboveground Pipe Cons:	
Construction Material:		Corrosion Protect Type:		Leak Detection:	
Catastrophic Leak Detection:				Leak Test Method:	
				Pipe Wall Type:	
				Piping System Type:	

Inspection Test Dates

Test Type	Test Date	Test Expire Date

To go back to your search results please click the back arrow  in the above Toolbar

Tank Details

Site and Owner

Site Info

Facility ID: 69365
 DENNISON QUALITY OIL CO
 State Highway 45 & 76 & 22
 Bear Creek
 Site Anniversary Date:

County & Municipality

Outagamie County
 Fire Dept ID: 4419
 Dispenser Has Sumps: N

Owner

Grace Dennison
 Po Box 12
 Bear Creek
 WI 54922-0012

Underground Storage Tank - ID: 317721, WANG ID: 441900126, Closed/Removed as of 1995-03-31

Install Date:		Capacity In Gallons:	300	Contents:	Fuel Oil
Tank Occupancy:		Marketer:	N	CAS Number	
Federally Regulated:	No	Spill Protection:	Not Installed	Overfill Protection:	Not Installed
Overfill Prot Type:	Not Installed	Containment Sump Installed:		Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	N
Leak Detection:	Unknown	Wall Type:			
Leak Test Method:					
Construction Material:	Coated Steel				

PIPING -

Flex Connectors:		UST Mainfolded:		Related Tank ID:	
Type:		Aboveground Piping:	N	Aboveground Pipe Cons:	
Construction Material:		Corrosion Protect Type:		Leak Detection:	
Catastrophic Leak Detection:				Leak Test Method:	
				Pipe Wall Type:	
				Piping System Type:	

Inspection Test Dates

Test Type	Test Date	Test Expire Date

To go back to your search results please click the back arrow  in the above Toolbar

Tank Details

Site and Owner

Site Info

Facility ID: 69365
DENNISON QUALITY OIL CO
State Highway 45 & 76 & 22
Bear Creek
Site Anniversary Date:

County & Municipality

Outagamie County

Fire Dept ID: 4419

Dispenser Has Sumps: N

Owner

Grace Dennison
Po Box 12
Bear Creek
WI 54922-0012

Underground Storage Tank - ID: 317722, WANG ID: 441900127, Closed/Removed as of 1989-09-30

Install Date:		Capacity In Gallons:	4,000	Contents:	Unleaded Gasoline
Tank Occupancy:	Retail Fuel Sales	Marketer:	N	CAS Number	
Federally Regulated:	Yes	Spill Protection:	Not Installed	Overfill Protection:	Not Installed
Overfill Prot Type:	Not Installed	Containment Sump Installed:		Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	N
Leak Detection:	Unknown	Wall Type:			
Leak Test Method:					
Construction Material:	Coated Steel				

PIPING -

Flex Connectors:		UST Mainfolded:		Related Tank ID:	
Type:		Aboveground Piping:	N	Aboveground Pipe Cons:	
Construction Material:		Corrosion Protect Type:		Leak Detection:	
Catastrophic Leak Detection:				Leak Test Method:	
				Pipe Wall Type:	
				Piping System Type:	

Inspection Test Dates

Test Type	Test Date	Test Expire Date

Attachment 3
Laboratory Analytical Reports



November 07, 2023

DAN HAAK
TRC - MADISON
708 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: WISDOT-BEAR CREEK
Pace Project No.: 40270589

Dear DAN HAAK:

Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Tom Perkins, TRC Madison
Peggy Popp, TRC - Madison



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WISDOT-BEAR CREEK

Pace Project No.: 40270589

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WISDOT-BEAR CREEK
Pace Project No.: 40270589

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40270589001	WC-1	Solid	11/03/23 09:00	11/03/23 17:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WISDOT-BEAR CREEK
Pace Project No.: 40270589

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40270589001	WC-1	EPA 8260	ALD	4	PASI-G
		ASTM D2974-87	NMK	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: WISDOT-BEAR CREEK

Pace Project No.: 40270589

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40270589001	WC-1					
ASTM D2974-87	Percent Moisture	57.5	%	0.10	11/06/23 11:14	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WISDOT-BEAR CREEK
Pace Project No.: 40270589

Method: EPA 8260
Description: 8260 MSV Med Level Short List
Client: TRC - MADISON
Date: November 07, 2023

General Information:

1 sample was analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISDOT-BEAR CREEK

Pace Project No.: 40270589

Sample: WC-1 Lab ID: 40270589001 Collected: 11/03/23 09:00 Received: 11/03/23 17:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	<45.2	ug/kg	76.0	45.2	1	11/07/23 10:15	11/07/23 14:01	71-43-2	
Surrogates									
4-Bromofluorobenzene (S)	105	%	72-142		1	11/07/23 10:15	11/07/23 14:01	460-00-4	
Toluene-d8 (S)	129	%	70-139		1	11/07/23 10:15	11/07/23 14:01	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	111	%	67-144		1	11/07/23 10:15	11/07/23 14:01	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	57.5	%	0.10	0.10	1		11/06/23 11:14		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WISDOT-BEAR CREEK

Pace Project No.: 40270589

QC Batch: 459746

Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260 MSV Med Level Short List

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40270589001

METHOD BLANK: 2640253

Matrix: Solid

Associated Lab Samples: 40270589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<11.9	20.0	11/07/23 11:38	
1,2-Dichlorobenzene-d4 (S)	%	95	67-144	11/07/23 11:38	
4-Bromofluorobenzene (S)	%	85	72-142	11/07/23 11:38	
Toluene-d8 (S)	%	98	70-139	11/07/23 11:38	

LABORATORY CONTROL SAMPLE: 2640254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2490	100	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	67-144	
4-Bromofluorobenzene (S)	%			89	72-142	
Toluene-d8 (S)	%			105	70-139	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: WISDOT-BEAR CREEK

Pace Project No.: 40270589

QC Batch: 459614

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40270589001

SAMPLE DUPLICATE: 2639546

Parameter	Units	40270559024 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.0	25.0	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: WISDOT-BEAR CREEK

Pace Project No.: 40270589

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WISDOT-BEAR CREEK
Pace Project No.: 40270589

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40270589001	WC-1	EPA 5035/5030B	459746	EPA 8260	459750
40270589001	WC-1	ASTM D2974-87	459614		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40270589

ALL SHADED AREAS are for LAB USE ONLY

Company: TRC
 Address: 499 Fournier Dr. Ste 101
 Report To: Tom Purkins
 Copy To: Dan Haeck
 Customer Project Name/Number: WISDOT - Bear Creek
 State: WI
 County/City: [] PT [] MT [] CT [] ET
 Time Zone Collected: [] PT [] MT [] CT [] ET
 Phone: 608 347-2277
 Email: TRC@PACANALYTICAL.COM
 Collected By (print): Tom Purkins
 Collected By (signature): [Signature]
 Sample Disposal: [X] Dispose as appropriate [] Return [] Archive [] Hold
 Rush: [] Same Day [] Next Day [] 2 Day [X] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)
 Field Filtered (if applicable): [] Yes [X] No
 Analysis: _____

Container Preservative Type **: 7 0
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:
Benzen 11/3/23 New Star	Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA Headspace Acceptable Y N NA USDA Regulated Solts Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
WC-1	SL	6	11/3/23	0900	-	-	-	3

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None
 Packing Material Used: [Signature]
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: 2881151
 Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: 139
 Cooler 1 Temp Upon Receipt: 1.0 oC
 Cooler 1 Therm Corr. Factor: oC
 Cooler 1 Corrected Temp: 1.0 oC
 Comments:

Relinquished by/Company: (Signature) [Signature] Date/Time: 11/3/2023/1700
 Relinquished by/Company: (Signature) [Signature] Date/Time: 11/3/2023/1715
 Relinquished by/Company: (Signature) _____ Date/Time: _____

Date/Time: _____
 Date/Time: 11/3/2023/1715
 Date/Time: _____

MTJL LAB USE ONLY
 Table #: _____
 Acctnum: _____
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): _____ Page 12 of 14
 YES / NO of: _____

Effective Date: 8/16/2022

Client Name: TRC

Sample Preservation Receipt Form

Project # 40210589

All containers needing preservation have been checked and noted below:
 Lab Lot# of pH paper

Yes No N/A
 Lab Std #ID of preservation (if pH adjusted)

Initial when completed.
 Date/ Time.

Pace Lab #	Glass						Plastic						Vials					Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC								GN 1	GN 2
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
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015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

Handwritten notes in the table:
 11/4 123 86

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) . Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9C 40 mL clear ascorbic w/ HCl	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG5U 100 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH + Zn	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres			GN 1
			GN 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: TRC

WO#: 40270589

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR-139 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 1.0 / Corr: 1.0

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 11/4/23 / Initials: SL
 Labeled By Initials: TW

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>11/4/23</u>	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log in



November 15, 2023

DAN HAAK
TRC - MADISON
708 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 576106 5TH 76 BEARCREEK
Pace Project No.: 40270937

Dear DAN HAAK:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Tom Perkins, TRC Madison
Peggy Popp, TRC - Madison



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 576106 5TH 76 BEARCREEK

Pace Project No.: 40270937

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 576106 5TH 76 BEARCREEK
Pace Project No.: 40270937

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40270937001	WATER	Water	11/13/23 10:00	11/13/23 11:58
40270937002	TRIP BLANK	Water	11/13/23 00:00	11/13/23 11:58

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SAMPLE ANALYTE COUNT

Project: 576106 5TH 76 BEARCREEK
Pace Project No.: 40270937

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40270937001	WATER	EPA 8260	NB	11	PASI-G
40270937002	TRIP BLANK	EPA 8260	NB	11	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 576106 5TH 76 BEARCREEK

Pace Project No.: 40270937

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40270937001	WATER					
EPA 8260	Benzene	5.7	ug/L	1.0	11/14/23 19:42	
EPA 8260	Ethylbenzene	10.6	ug/L	1.0	11/14/23 19:42	
EPA 8260	Toluene	7.3	ug/L	1.0	11/14/23 19:42	
EPA 8260	Xylene (Total)	7.5	ug/L	3.0	11/14/23 19:42	

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PROJECT NARRATIVE

Project: 576106 5TH 76 BEARCREEK

Pace Project No.: 40270937

Method: EPA 8260

Description: 8260 MSV UST

Client: TRC - MADISON

Date: November 15, 2023

General Information:

2 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 576106 5TH 76 BEARCREEK

Pace Project No.: 40270937

Sample: WATER Lab ID: 40270937001 Collected: 11/13/23 10:00 Received: 11/13/23 11:58 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/14/23 19:42	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/14/23 19:42	108-67-8	
Benzene	5.7	ug/L	1.0	0.30	1		11/14/23 19:42	71-43-2	
Ethylbenzene	10.6	ug/L	1.0	0.33	1		11/14/23 19:42	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/14/23 19:42	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		11/14/23 19:42	91-20-3	
Toluene	7.3	ug/L	1.0	0.29	1		11/14/23 19:42	108-88-3	
Xylene (Total)	7.5	ug/L	3.0	1.0	1		11/14/23 19:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	70-130		1		11/14/23 19:42	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/14/23 19:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/14/23 19:42	2199-69-1	

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ANALYTICAL RESULTS

Project: 576106 5TH 76 BEARCREEK

Pace Project No.: 40270937

Sample: TRIP BLANK Lab ID: 40270937002 Collected: 11/13/23 00:00 Received: 11/13/23 11:58 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/14/23 19:23	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/14/23 19:23	108-67-8	
Benzene	<0.30	ug/L	1.0	0.30	1		11/14/23 19:23	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/14/23 19:23	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/14/23 19:23	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		11/14/23 19:23	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		11/14/23 19:23	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/14/23 19:23	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		11/14/23 19:23	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/14/23 19:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		11/14/23 19:23	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 576106 5TH 76 BEARCREEK

Pace Project No.: 40270937

QC Batch: 460217

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40270937001, 40270937002

METHOD BLANK: 2643082

Matrix: Water

Associated Lab Samples: 40270937001, 40270937002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	11/14/23 16:36	
Ethylbenzene	ug/L	<0.33	1.0	11/14/23 16:36	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/14/23 16:36	
Toluene	ug/L	<0.29	1.0	11/14/23 16:36	
Xylene (Total)	ug/L	<1.0	3.0	11/14/23 16:36	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	11/14/23 16:36	
4-Bromofluorobenzene (S)	%	109	70-130	11/14/23 16:36	
Toluene-d8 (S)	%	103	70-130	11/14/23 16:36	

LABORATORY CONTROL SAMPLE: 2643083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	53.9	108	70-130	
Ethylbenzene	ug/L	50	56.8	114	80-125	
Methyl-tert-butyl ether	ug/L	50	48.7	97	64-131	
Toluene	ug/L	50	54.7	109	80-120	
Xylene (Total)	ug/L	150	168	112	70-130	
1,2-Dichlorobenzene-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2643084 2643085

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40270921006 Result	Spike Conc.	Spike Conc.	MSD Result							
Benzene	ug/L	<1.0	50	50	54.3	56.7	109	113	70-130	4	20	
Ethylbenzene	ug/L	<1.0	50	50	57.1	57.9	114	116	80-126	1	20	
Methyl-tert-butyl ether	ug/L	<5.0	50	50	48.1	50.2	96	100	64-136	4	20	
Toluene	ug/L	<1.0	50	50	54.2	55.0	108	110	80-121	2	20	
Xylene (Total)	ug/L	<3.0	150	150	167	171	111	114	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						104	104	70-130			
4-Bromofluorobenzene (S)	%						115	115	70-130			
Toluene-d8 (S)	%						102	101	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 576106 5TH 76 BEARCREEK

Pace Project No.: 40270937

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 576106 5TH 76 BEARCREEK
Pace Project No.: 40270937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40270937001	WATER	EPA 8260	460217		
40270937002	TRIP BLANK	EPA 8260	460217		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or
MTJL Log-in Number Here

40270937

ALL SHADED AREAS are for LAB USE ONLY

Company: **TRE**

Billing Information: **Same**

Address: **414 Fenwick Dr Madison 53717**

Container Preservative Type **

Lab Project Manager:

Report To: **Dan Haak**

Email To: **dhaak@trc.companies.com**

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Copy To: **Tom Perkins**

Site Collection Info/Address:

Customer Project Name/Number: **576156 STH 76 Bear Creek WI**

State: **WI** County/City: **Bear Creek** Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: **608 886 7423**

Site/Facility ID #:

Compliance Monitoring? [] Yes [x] No

Collected By (print): **Dan Haak**

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature): **Dan Haak**

Turnaround Date Required: **ASAP / 2 day**

Immediately Packed on Ice: [x] Yes [] No

Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:

Rush: [] Same Day [] Next Day [x] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [] Yes [x] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
Water	GW	G	11/13/23	10:00				3
trip blank								2

Analyses									

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #: **2881220**
Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: **134**
Cooler 1 Temp Upon Receipt: **3.0** °C
Cooler 1 Therm Corr. Factor: **0.0** °C
Cooler 1 Corrected Temp: **3.0** °C
Comments:

Relinquished by/Company: (Signature) **Dan Haak TRE**
Date/Time: **11/13/23 11:58**

Received by/Company: (Signature) **[Signature]**
Date/Time: **11/13/23 11:58**

Relinquished by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:
Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s):
YES / NO
Page 12 of 14
of: **1**

Client Name: TRC

Sample Preservation Receipt Form

Project # 40270930

All containers needing preservation have been checked and noted below.

Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass						Plastic						Vials				Jars				General		VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act. pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WGFU								WPFU	SP5T	ZPLC	GN 1	GN 2
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

11/13/23 NL

Exceptions to preservation check VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other.

Headspace in VOA Vials (>6mm) Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: TRC

WO#: 40270937

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - 134 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 11/13/23 Initials: NJK
 Labeled By Initials: Er

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: Pace Green Bay Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no date/times</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>11/13/23 NJK</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>508</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Attachment 4
Photographic Log

Photographic Log



Client Name: WisDOT		Site Location: STH 76 Waupaca & Outagamie County, Wisconsin	Project No.: WisDOT #6518-00-70 TRC #576106
Photo No. 1	Date 11/2/2023		
<p>Description Contaminated groundwater, encountered during the frost heave excavation at STH 76, south of the Former Dennison Quality Oil Site.</p> <p>Photo taken by the WisDOT's highway contractor, looking northwest.</p>			

Photo No. 2	Date 11/3/2023		
<p>Description A test pit was excavated at the area of the frost heave excavation at STH 76. Soil and groundwater were sampled for waste characterization.</p> <p>Photo taken looking northeast.</p>			

Photographic Log

Client Name: WisDOT		Site Location: STH 76 Waupaca & Outagamie County, Wisconsin	Project No.: WisDOT #6518-00-70 TRC #576106
Photo No. 3	Date 11/13/2023		
Description Frost heave excavation at STH 76, adjacent to the Former Dennison Quality Oil Site. Photo taken looking east.			

Photo No. 4	Date 11/13/2023		
Description Frost heave excavation at STH 76, adjacent to the Former Dennison Quality Oil Site. Soil saturated with contaminated groundwater was transported to a landfill for disposal. Photo taken looking northeast.			

Photographic Log



Client Name: WisDOT		Site Location: STH 76 Waupaca & Outagamie County, Wisconsin	Project No.: WisDOT #6518-00-70 TRC #576106
Photo No. 5	Date 11/13/2023		
<p>Description Frost heave excavation at STH 76, adjacent to the Former Dennison Quality Oil Site. Soil saturated with contaminated groundwater was transported to a landfill for disposal.</p> <p>Photo taken looking northeast.</p>			

Photo No. 6	Date 11/13/2023		
<p>Description Frost heave excavation at STH 76, adjacent to the Former Dennison Quality Oil Site. Soil saturated with contaminated groundwater was transported to a landfill for disposal.</p> <p>Photo taken looking northeast.</p>			

Photographic Log

Client Name: WisDOT		Site Location: STH 76 Waupaca & Outagamie County, Wisconsin	Project No.: WisDOT #6518-00-70 TRC #576106
Photo No. 7	Date 11/13/2023		
<p>Description</p> <p>Frost heave excavation at STH 76, adjacent to the Former Dennison Quality Oil Site. Soil saturated with contaminated groundwater was transported to a landfill for disposal. Groundwater was pumped from the excavation area by vacuum truck for disposal.</p> <p>Photo taken looking northeast.</p>			

Photo No. 8	Date 11/13/2023		
<p>Description</p> <p>Contaminated groundwater, removed from the excavation site by a vacuum truck, was emptied to a frac tank for disposal by the WisDOT's hazardous waste contractor.</p> <p>Photo taken looking northwest.</p>			

Photographic Log


Client Name: WisDOT		Site Location: STH 76 Waupaca & Outagamie County, Wisconsin	Project No.: WisDOT #6518-00-70 TRC #576106
Photo No. 9	Date 11/13/2023		
Description Contaminated groundwater, removed from the excavation site by a vacuum truck, was emptied to a frac tank for disposal by the WisDOT's hazardous waste contractor. Photo taken looking northeast.			

Photo No. 10	Date 12/21/2023		
Description Completed road surface at the location of the frost heave excavation at STH 76, south of the Former Dennison Quality Oil Site. Photo taken looking west.			

Attachment 5
Disposal Documentation



Requested Facility: Valley Trail RDF Unsure Profile Number: 140107WI
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number:

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

- 1. Generator Name: WisDOT (ID# 6518-06-00) ID# 6518-00-70
2. Generator Site Address: STH 76 (City, State, ZIP) Bear Creek WI 54922
3. County: Outagamie
4. Contact Name: Sharlene TeBeest
5. Email: Sharlene.TeBeest@dot.wi.gov
6. Phone: (608) 266-1476 7. Fax:
8. Generator EPA ID: N/A
9. State ID: N/A

C. MATERIAL INFORMATION

- 1. Common Name: Petroleum-impacted soil
Describe Process(es) Generating Material: See Attached
The WisDOT's highway contractor is excavating petroleum-impacted soil from the STH 76 ROW adjacent to a site that formerly contained unleaded gasoline, diesel, and fuel oil underground storage tanks. The soil has been impacted by leaks in
2. Material Composition and Contaminants: See Attached
Table with 2 columns: Component, Percentage. Rows: Soil (100%), Total comp. must be equal to or greater than 100% (≥100%)
3. State Waste Codes: N/A
4. Color: Dark brown
5. Physical State at 70°F: Solid
6. Free Liquid Range Percentage: N/A
7. pH: N/A
8. Strong Odor: No Describe:
9. Flash Point: N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- 1. Analytical attached Yes
Please identify Lab Report(s) and list specific representative Sample ID#s:
WC-1
2. Other information attached (such as SDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this Waste Management ("WM") Profile, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to WM prior to providing the material to WM. I am aware that there are significant penalties for knowingly submitting false information.

- I am authorized to sign on behalf of the Generator and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.
 I am a duly authorized employee of Generator holding a position of technical responsibility with direct knowledge of the waste stream and the information contained in this profile, and I confirm that information contained in this profile, as well as supporting documents are accurate and complete.

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

B. BILLING INFORMATION SAME AS GENERATOR

- 1. Billing Name: Michel's Road and Stone, Inc.
2. Billing Address: 817 W Main St, PO Box 128 (City, State, ZIP) Brownsville WI 53006
3. Contact Name: Chad Wondra
4. Email: cwondra@michels.us
5. Phone: (920) 948-5937 6. Fax:
7. P.O. Number:
8. Payment Method: Credit Account Cash Credit Card at Gate

D. REGULATORY INFORMATION

- 1. EPA Hazardous Waste? Yes* No
2. State Hazardous Waste? Yes No
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
4. Contains Underlying Hazardous Constituents? Yes* No
5. Does the material contain benzene? Yes* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
7. CERCLA or State-mandated clean-up? Yes* No
8. NRC, State-regulated, NORM or TENORM waste? Yes* No
*If Yes, see Addendum (page 2) for additional questions and space.
9. Contains PCBs? -> If Yes, answer a, b and c. Yes No
a. Regulated by 40 CFR 761? Yes No
b. Remediation under 40 CFR 761.61? Yes No
c. Were PCBs imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes No
-> If Yes: Non-Friable Non-Friable - Regulated Friable
12. Contains Dioxins? (If Yes, please attach analysis) Yes No

F. SHIPPING AND DOT INFORMATION

- 1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Annual Quantity/Unit of Measure: 100 Tons Yards Drums Gallons Other
3. Container Type and Size: Dump Truck
4. USDOT Proper Shipping Name N/A
5. Estimated Start Date 11/10/2023
6. Transportation Needed? Yes* No

Name (Print): Sharlene TeBeest
Title: Hazardous Materials Specialist
Company: WisDOT
Date: 11/08/2023
Certification Signature

Handwritten signature of Sharlene TeBeest



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: 140107WI

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

one or more of the former USTs.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 100%	
	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? Yes No

c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. Yes No

d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? Yes No

→ If Yes, please check one of the following:

Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))

Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

e. Form Code:

f. Source Code:

2. State Hazardous Waste → Please list all state waste codes: _____

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:

Delisted Hazardous Waste Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____

Treated Hazardous Waste Debris Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

5. a. Are you an industry regulated under Benzene NESHAP? (Petroleum refineries, chemical manufacturing plants, coke by-product, and TSDFs.) Yes No

b. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue. Yes No

c. What is the flow weighted average benzene concentration? _____ ppmw

d. What is your facility's current total annual benzene quantity in Megagrams? <1 Mg 1–9.99 Mg ≥10 Mg

e. Is this waste soil from a remediation? Yes No

1. If yes, what is the benzene concentration in remediation waste? _____ ppmw

f. Does the waste contain >10% water/moisture? Yes No

g. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? Yes No

h. Is material exempt from controls in accordance with 40 CFR 61.342? Yes No

→ If yes, specify exemption: _____

i. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? Yes No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? Yes No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC, State-regulated radioactive, NORM or TENORM? →

a. Please select all that apply:

Nuclear Regulatory Commission (NRC) Radioactive Technologically Enhanced Naturally Occurring Radioactive Material (TENORM)

State-Regulated Radioactive Naturally Occurring Radioactive Material

b. Testing, per individual waste stream, for applicable isotopes and/or other supporting information attached? Yes No

Date	Profile #	Manifest/ Additional Documents	Ticket #	Material	Facility	Carrier	Vehicle	Tons/Tonnes	Material Quantity	Material Unit
11/13/2023	BIO140107WI	*	1261915	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		A1249	22.92	22.92	TON
11/13/2023	BIO140107WI	*	1261917	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		A1252	24.97	24.97	TON
11/13/2023	BIO140107WI	*	1261919	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		A1193	23.52	23.52	TON
11/13/2023	BIO140107WI	*	1261923	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		a1251	19.5	19.5	TON
11/13/2023	BIO140107WI	*	1261926	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		A1181	21.51	21.51	TON
11/13/2023	BIO140107WI	*	1261928	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		A1254	19	19	TON
11/13/2023	BIO140107WI	*	1261931	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		103	14.02	14.02	TON
11/13/2023	BIO140107WI	*	1261933	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		104	16.43	16.43	TON
11/13/2023	BIO140107WI	*	1261945	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		A1252	15.51	15.51	TON
11/13/2023	BIO140107WI	*	1261947	Unspecified material, bioremediated, daily cover, PMT RGC	WI Valley Trail LF		A1193	24.93	24.93	TON
Total									202.31	TON



Valley Trail Landfill
 N9101 Willard Road
 Berlin, WI, 54923
 Ph: 920-361-4995

Reprint
 Ticket# 1261915

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	A1249	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	74260 lb
In	11/13/2023 10:52:02	scale	lschwand		Tare	28420 lb
Out	11/13/2023 11:14:48	scale	lschwand		Net	45840 lb
					Tons	22.92

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	22.92	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
 N9101 Willard Road
 Berlin, WI, 54923
 Ph: 920-361-4995

Reprint
 Ticket# 1261917

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	A1252	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	78240 lb
In	11/13/2023 10:56:00	scale	lschwand		Tare	28300 lb
Out	11/13/2023 11:15:24	scale	lschwand		Net	49940 lb
					Tons	24.97

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	24.97	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
 N9101 Willard Road
 Berlin, WI, 54923
 Ph: 920-361-4995

Reprint
 Ticket# 1261919

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	A1193	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	
In	11/13/2023 11:07:36	scale	lschwand		Tare	75040 lb
Out	11/13/2023 11:21:07	scale	lschwand		Net	28000 lb
					Tons	47040 lb
						23.52

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	23.52	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
 N9101 Willard Road
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Reprint
 Ticket# 1261923

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	a1251	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	
In	11/13/2023 11:18:06	scale	lschwand		Tare	68000 lb
Out	11/13/2023 11:31:09	scale	lschwand		Net	29000 lb
					Tons	39000 lb
						19.50

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	19.50	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
 N9101 Willard Road
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Reprint
 Ticket# 1261926

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	A1181	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	71240 lb
In	11/13/2023 11:35:42	scale	lschwand		Tare	28220 lb
Out	11/13/2023 11:53:06	scale	lschwand		Net	43020 lb
					Tons	21.51

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	21.51	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
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Reprint
 Ticket# 1261928

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	A1254	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	
In	11/13/2023 11:41:53	scale	lschwand		Tare	67240 lb 29240 lb
Out	11/13/2023 11:57:06	scale	lschwand		Net	38000 lb
					Tons	19.00

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	19.00	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
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 Berlin, WI, 54923
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Reprint
 Ticket# 1261931

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	Majestic	
Ticket Date	11/13/2023	Vehicle#	103	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	57960 lb
In	11/13/2023 11:52:09	scale	lschwand		Tare	29920 lb
Out	11/13/2023 12:01:52	scale	lschwand		Net	28040 lb
					Tons	14.02

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	14.02	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
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 Berlin, WI, 54923
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Reprint
 Ticket# 1261933

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	Majestic	Volume
Ticket Date	11/13/2023	Vehicle#	104	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	62820 lb
In	11/13/2023 12:07:51	scale	cnissen		Tare	29960 lb
Out	11/13/2023 12:20:17	scale	cnissen		Net	32860 lb
					Tons	16.43

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	16.43	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
 N9101 Willard Road
 Berlin, WI, 54923
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Reprint
 Ticket# 1261945

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	A1252	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

	Time	Scale	Operator	Inbound	Gross	59260 lb
In	11/13/2023 13:42:16	scale	lschwand		Tare	28240 lb
Out	11/13/2023 13:56:31	scale	lschwand		Net	31020 lb
					Tons	15.51

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	15.51	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Valley Trail Landfill
 N9101 Willard Road
 Berlin, WI, 54923
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Reprint
 Ticket# 1261947

Customer Name	MICHELSROAD MICHELS ROAD AND	Carrier	MICHELS	Volume
Ticket Date	11/13/2023	Vehicle#	A1193	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001542	
State Waste Code	BR-23	Gen EPA ID		
Manifest	*			
Destination		Grid		
PO				
Profile	BIO140107WI (PETROLEUM IMPACTED SOIL)			
Generator	136-WISDOT6518 WISDOT 6518 06 70			

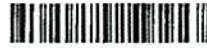
	Time	Scale	Operator	Inbound	Gross	77740 lb
In	11/13/2023 13:55:27	scale	lschwand		Tare	27880 lb
Out	11/13/2023 14:06:46	scale	lschwand		Net	49860 lb
					Tons	24.93

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spw Biorem RGC-Ton	100	24.93	Tons				
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				

Total Tax
 Total Ticket

Driver`s Signature

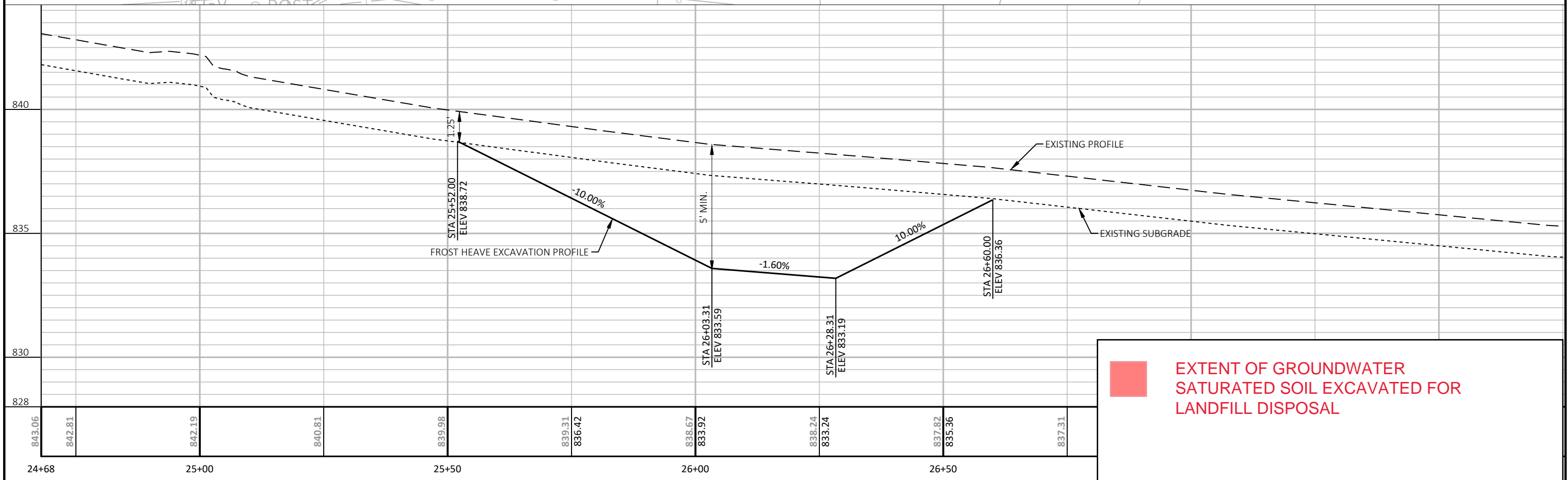
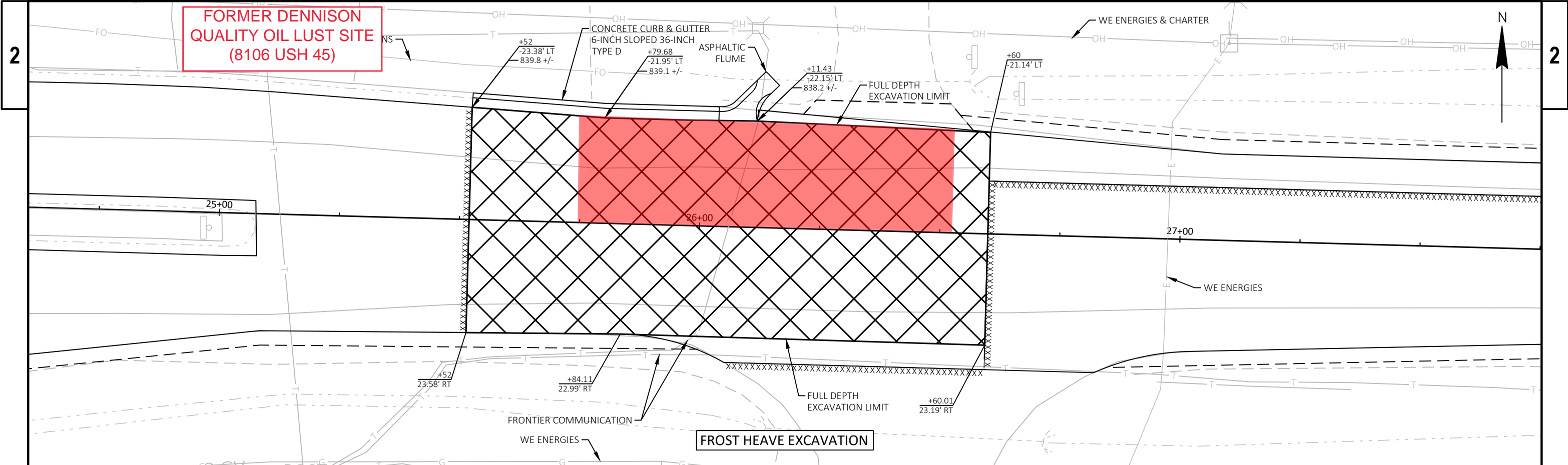


SHIPPING DOCUMENT		Generator ID Number NONREQUIRED		2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087		4. Shipping Document Tracking Number ZZ 01150843		
5. Generator's Name and Mailing Address WISDOT STH 76 BEAR CREEK E91107 SILVER CREEK ROAD BEAR CREEK, WI 54922					Generator's Site Address (if different than mailing address) SAME				
6. Transporter 1 Company Name VEOLIA HS TECHNICAL SOLUTIONS					U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address COVANTA ENVIRONMENTAL SOLUTION 5300 N 33RD STREET MILWAUKEE, WI 53209					U.S. EPA ID Number W I D 0 0 6 0 8 5 7 8 1				
Facility's Phone: 414 349-0775									
GENERATOR	9a. H.M.	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt/Vol.	13. Codes
	1	NON RCRA AND DOT NON REGULATED LIQUID, (OIL, WATER)			001 TT		5245	G	NONE
	2								
	3								
	4								
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS + 0036190 UI + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) W:1191755 A:5029389 <i>(2) Trailer #212036</i>									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.									
Generator's/Offeror's Printed/Typed Name Zach Davis on Behalf of WISDOT					Signature <i>Zach Davis</i>		Month Day Year 12 20 23		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Shipment Transporter 1 Printed/Typed Name Timothy G. Block Signature <i>Timothy G. Block</i> Month Day Year 12 20 23									
Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____									
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Shipping Document Tracking Number: _____									
18b. Alternate Facility (or Generator) U.S. EPA ID Number _____									
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____									
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)									
1		2		3		4			
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in item 18b Printed Name: DOCSUS Signature: <i>[Signature]</i> Month Day Year: 12 20 23									

DESIGNATED FACILITY TO GENERATOR

Attachment 6
Impacted Soil Extent Map

**FORMER DENNISON
QUALITY OIL LUST SITE
(8106 USH 45)**



EXTENT OF GROUNDWATER SATURATED SOIL EXCAVATED FOR LANDFILL DISPOSAL