

**General Engineering Company**  
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Portage, WI 53901



*Engineers • Consultants • Inspectors*

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July 19, 2016

Ms. Sarah Frederick  
Wisconsin Department of Natural Resources  
625 East County Road Y, Suite 700  
Oshkosh, Wisconsin 54901

**RE: Request for No Further Action**  
Schindler Construction Company (Former)  
1310 Earl Street  
Menasha, Wisconsin  
BRRTS No.: 02-71-000611

Dear Ms. Frederick:

General Engineering Company has recently completed an investigation at the former Schindler Construction property, located at 1310 Earl Street in Menasha, Wisconsin. A brief summary of the previous activities performed by others is also provided within the report.

Soil and groundwater samples collected during the investigative activities either did not contain petroleum compounds or did not contain them at levels exceeding the current standards. Therefore, on behalf of Mr. Thomas Lemke, Jr., General Engineering is respectfully requesting that no further action be required at this site and the site activity be closed under NR 708.09.

General Engineering Company appreciates the opportunity to be of service on this project. Should you have any questions, please contact us.

Sincerely yours,

**GENERAL ENGINEERING COMPANY**

A handwritten signature in blue ink, appearing to read 'Brian Youngwirth'.

Brian Youngwirth  
Environmental Project Manager

A handwritten signature in blue ink, appearing to read 'Beth A. Erdman'.

Beth A. Erdman  
Environmental Project Manager

c: Mr. Thomas Lemke, Jr.

**Portage**

**Black River Falls**

**La Crosse**



Consulting Engineering • Structural Engineering • Building Design • Environmental Services • Building Inspection • GIS Services  
Planning & Economic Development • Land Surveying • Zoning Administration • Mechanical, Electrical, & Plumbing Services





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## EXECUTIVE SUMMARY

According to the Wisconsin Department of Natural Resources (WDNR) BRRTS database, the WDNR was notified on October 5, 1993 that a diesel spill had occurred on the property from the fuel tank of a truck. The spill reportedly occurred on the southeastern portion of the property and migrated eastward toward Earl Street. An excavation of the affected area and initial investigation were completed during 1994 by Superior Services Inc.(Superior). The majority of affected soil is believed to have been removed however, confirmation sampling and a full investigation of the degree and extent of contamination was not completed. As a result, a responsible party letter was issued to Schindler Construction by the WDNR, dated February 21, 1995. No work has been performed on the site since issuance of the responsible party letter and a deed affidavit was filed on the property in 2000.

On January 15, 2016, a Notice of Contamination was sent to Mr. Thomas Lemke Jr. by the WDNR, requesting verification of ownership of the property. Mr. Lemke, Jr. was issued a responsible party letter by the WDNR, dated May 10, 2016, although he is not the current owner of the property. General Engineering Company was retained by Mr. Lemke to complete the required site investigation activities.

Six soil probes, designated GP-1 to GP-6, were advanced on the subject site on June 29, 2016. The probes were advanced to depths ranging from 10 to 15 feet below ground surface (bgs). The probes were performed within the estimated location of the former spill based on the map provided by Superior as part of their spill response. The soil samples were screened with a Photoionization Detector (PID). Select soil samples were collected from each probe and analyzed for the presence of petroleum volatile organic compounds (PVOCs) and naphthalene. Soil probes GP-1, GP-2, and GP-6 were converted to temporary monitoring wells designated TW-1 through TW-3, respectively. Groundwater samples were collected from the temporary wells and submitted for laboratory analysis for the presence of PVOCs and naphthalene.

The soil sample collected from GP-2 at a depth of about 3 feet contained naphthalene and 1,3,5 trimethylbenzene at concentrations of 132 micrograms per kilogram ( $\mu\text{g/kg}$ ) and 48  $\mu\text{g/kg}$  respectively, which are below their respective NR 720 soil to groundwater RCLs of 658  $\mu\text{g/kg}$  and 1,382  $\mu\text{g/kg}$ . The samples collected from the remaining locations did not contain PVOCs or naphthalene.

Groundwater samples were collected from temporary monitoring wells TW-1 through TW-3 on July 4, 2016. The samples were submitted for laboratory analysis for the presence of PVOCs and naphthalene. The samples did not contain detectable levels of PVOCs or naphthalene.

Based on the testing, it appears that the majority of the soils affected by the spill were removed at the time of the remedial activities performed in 1994. In addition, the soil and groundwater samples collected from the six soil probes and three monitoring wells completed during this investigation either did not contain PVOCs or naphthalene or did not contain them at levels exceeding their current standards. It is therefore recommended that no further action be required regarding this release under NR 708.09.

## **SITE FEATURES AND BACKGROUND**

### Site Features

The subject site is an approximate 0.682 acre parcel (Parcel Number 740079101) of land, located at 1310 Earl Street, in the City of Menasha, Wisconsin. The property is located on the west side of Earl Street. A Site Location Map is shown in Figure 1, Appendix A.

The property is situated within an area of the City of Menasha that is primarily developed with commercial properties to the north, south, and west. Athletic fields are present to the northeast, east, and southeast of the property beyond Earl Street. The property is a rectangular shaped parcel (with the exception of the eastern boundary along Earl Street). The eastern portion of the property is developed with a commercial structure. The ground surface surrounding the structure is primarily gravel. Surface topography appeared to be relatively level.

The subject site is serviced by the City of Menasha water and sewer utility. A Site Plan is shown on Figure 2, located in Appendix A.

### Background

According to the WDNR BRRS database, the WDNR was notified on October 5, 1993 that a diesel spill had occurred on the property from the fuel tank of a truck. The spill reportedly occurred on the southeastern portion of the property and migrated eastward toward Earl Street. An excavation of the affected area and an initial investigation were completed during 1994 by Superior. The majority of affected soil is believed to have been removed. However, confirmation sampling and a full investigation of the degree and extent of contamination was not completed. As a result, a responsible party letter was issued to Schindler Construction by the WDNR, dated February 21, 1995. No work has been performed on the site since issuance of the responsible party letter and a deed affidavit was filed on the property in 2000.

On January 15, 2016, a Notice of Contamination was sent to Mr. Thomas Lemke Jr. by the WDNR requesting verification of ownership of the property. Mr. Lemke, Jr. was issued a responsible party letter by the WDNR, dated May 10, 2016, although he is not the current owner of the property.

Mr. Thomas L. Lemke, Jr. subsequently requested General Engineering Company to prepare a Work Plan and complete the required investigation activities. GEC submitted a Work Plan to the WDNR, dated June 23, 2016. The Work Plan was approved by the WDNR and the investigation activities discussed herein were subsequently performed.

## **FIELD ACTIVITIES AND PROCEDURES**

### Scope Summary

Six soil probes, designated GP-1 to GP-6, were advanced on the subject site on June 29, 2016. The probes were advanced to depths ranging from 10 to 15 feet bgs. The probes were performed within the estimated location of the former spill based on a Superior map included within the WDNR case file and subsequently provided to General Engineering by Ms. Sarah Frederick. The soil samples were screened with a PID. Select soil samples were collected from each probe and analyzed for the presence of PVOCs and naphthalene. Soil probes GP-1, GP-2, and GP-6 were converted to temporary monitoring wells designated TW-1 through TW-3, respectively. Groundwater samples collected from the temporary wells were submitted for laboratory analysis for the presence of PVOCs and naphthalene.

#### Field Activities

The soil probes/temporary monitoring wells were performed by Kitson Environmental Services of Hellenville, Wisconsin with a truck-mounted geoprobe unit. Representative samples were collected continuously throughout the completion depth of the probes. The soil probes/temporary monitoring well locations are shown on Figure 3, Appendix A. Soil probes not converted to temporary monitoring wells were abandoned. Soil probe abandonment forms are included in Appendix D.

The temporary monitoring well construction consisted of a 10-foot section of 2-inch diameter, machine slotted PVC screen placed at or near the bottom of the borehole. This was surrounded by a properly graded granular filter medium in the annular space, with un-slotted riser pipe extending from the screened section to a few inches below the ground surface. A bentonite seal of approximately 2 feet, was placed above the granular filter medium. The remaining annular space was filled to the ground surface with bentonite chips. Temporary well construction forms are included within Appendix D.

#### Volatile Emission Vapor Screening

Soil samples collected during the probing activities were screened for volatile organic vapor emissions with a PID. The PID is an electronic instrument that measures the relative concentration of volatile organic vapor emissions in the headspace of a container. The response of the instrument is dependent upon volatility, temperature, and the ionization potential of the compounds measured. The meter serves as one tool in selecting samples for analytical testing and estimating zones of more highly affected soil, as it only gives a relative indication of the presence of volatile vapor emissions. However, the PID cannot quantify concentrations of individual compounds. PID levels were not observed within the collected samples with the exception of the samples collected from GP-2 from depths of about 3 to 8 feet, where low PID levels of about 0.3 instrument units (IU) to 1.5 IU were detected.

### **DESCRIPTION OF SUBSURFACE CONDITIONS**

#### Soil Conditions

The surface of the site at the test locations consisted of 3 inches to 6 inches of gravel fill, which was underlain by a few inches of possible buried topsoil at GP-1, GP-3, and GP-6. These materials were underlain by natural reddish brown silty clay to the termination depths of the probes.

Groundwater was encountered at depths of about 8 to 9 feet at the time of the probing activities. The depth to groundwater within the temporary wells ranged from 7.55 feet below the top of casing at TW-2 to 9.36 feet below top of casing at TW-1.

#### Soil and Groundwater Sample Collection Procedure and Preparation

The soil samples for chemical analyses were selected from the probes, based upon visual and olfactory observations, and the PID screenings, to document the encountered soil conditions. Select soil samples were submitted for laboratory analysis for the presence of PVOCs and naphthalene.

The soil samples submitted for laboratory analysis for the presence of PVOC and naphthalene were extracted from the soils utilizing a sterile syringe and approximately 10 to 12 grams of soil were transferred into a clean, laboratory prepared jar with approximately 10 milliliters of methanol.



The samples were placed on ice, and Chain-of-Custody procedures were initiated. The samples were then submitted to Synergy Laboratory of Appleton, Wisconsin, for laboratory analysis.

Groundwater samples were collected from the temporary wells and submitted for laboratory analysis for the presence of PVOCs and naphthalene. The groundwater samples were collected utilizing a single use disposable bailer. The samples submitted for analysis were placed in laboratory prepared 40-milliliter vials containing Hydrochloric Acid preservative. The sample containers were placed on ice and standard Chain-of-Custody procedures were initiated. The groundwater samples were submitted to Synergy Laboratory in Appleton, Wisconsin.

#### NR 720 Soil Standards

Chapter 720 of the NR700 series code established residual contaminant levels (RCLs) for soils intended to be protective of the direct contact (upper 4 feet of soil defined by human exposure to substances in soil through inhalation of particulate matter, dermal absorption, incidental ingestion, or inhalation of vapors from the soil) and soil-to-groundwater pathways. The direct contact levels are dependent on the planned use and zoning of the affected property. Although these individual RCLs have been established for a wide range of compounds, the WDNR requires that the cumulative effects of detected compounds be evaluated through use of a WDNR interactive table where individual concentrations can be entered to evaluate whether the target cancer risk has been exceeded. The individual RCLs provided by the WDNR were developed using standard default exposure assumptions. As an alternative, site specific calculations can be performed utilizing the U.S. EPA Regional Screening Level Web Calculator.

#### Laboratory Soil Results

The soil samples collected from GP-2 at a depth of about 3 feet contained naphthalene and 1,3,5 trimethylbenzene at concentrations of 132 µg/kg and 48 µg/kg respectively, which are below their respective NR 720 soil to groundwater RCLs of 658 µg/kg and 1,382 µg/kg. The samples collected from the remaining locations did not contain detectable concentrations of PVOCs or naphthalene. A copy of the soil analytical results is included in Appendix C and the results are summarized on Table 1, Appendix B.

#### Groundwater Quality Standards

The Enforcement Standards (ESs) and Preventive Action Limits (PALs) are Groundwater Quality Standards, which have been established in NR140 of the Wisconsin Administrative Code. These Standards are referenced when evaluating the need for further study or remedial activities. The PAL is the more stringent guideline, in terms of being lesser in magnitude than the ES, but will typically require less response action when exceeded. The required action is determined by DNR regulations, based on various site-specific considerations.

#### Laboratory Groundwater Results

Groundwater samples were collected from the temporary monitoring wells on July 4, 2016. The samples were submitted for laboratory analysis for the presence of PVOCs and naphthalene. The samples did not contain detectable levels of PVOCs or naphthalene. A copy of the groundwater analytical results is included in Appendix C and the results are summarized on Table 2, Appendix B.

## CONCLUSION, FINDINGS, AND OPINIONS

Conclusion: General Engineering Company has performed an investigation at the Schindler Construction Company (former) located at 1310 Earl Street in Menasha, Wisconsin.

The investigation activities performed included the advancement of six soil probes (GP-1 to GP-6) on June 29, 2016. Soil probes GP-1, GP-2, and GP-6 were converted to temporary monitoring wells (TW-1 to TW-3). One to two soil samples were collected for laboratory analysis from each of the probes locations. Temporary monitoring wells TW-1 to TW-3 were sampled on July 4, 2016. Soil and groundwater samples were submitted for laboratory analysis of PVOCs and naphthalene.

The soil sample collected from GP-2 at a depth of about 3 feet contained naphthalene and 1,3,5 trimethylbenzene at concentrations of 132 micrograms per kilogram ( $\mu\text{g/kg}$ ) and 48  $\mu\text{g/kg}$  respectively, which are below their respective NR 720 soil to groundwater RCLs of 658  $\mu\text{g/kg}$  and 1,382  $\mu\text{g/kg}$ . The samples collected from the remaining locations did not contain detectable concentrations of PVOCs or naphthalene.

Groundwater samples were collected from the temporary monitoring wells on July 4, 2016. The samples did not contain detectable levels of PVOCs or naphthalene.

Based on the soil and groundwater analytical results, it appears that the majority of affected soils were removed at the time of the remedial activities performed in 1994. In addition, the soil and groundwater samples collected from the six soil probes and three temporary monitoring wells completed during this investigation either did not contain detectable PVOCs or naphthalene concentrations or did not contain them at levels exceeding their current standards. It is therefore requested that no further action be required regarding this release under NR 708.09.

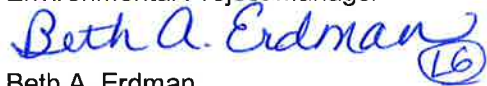
Upon approval of the request for no further action for the above site, the temporary monitoring wells will be abandoned and abandonment forms submitted to WDNR.

Respectfully Submitted,

### GENERAL ENGINEERING COMPANY



Brian Youngwirth  
Environmental Project Manager

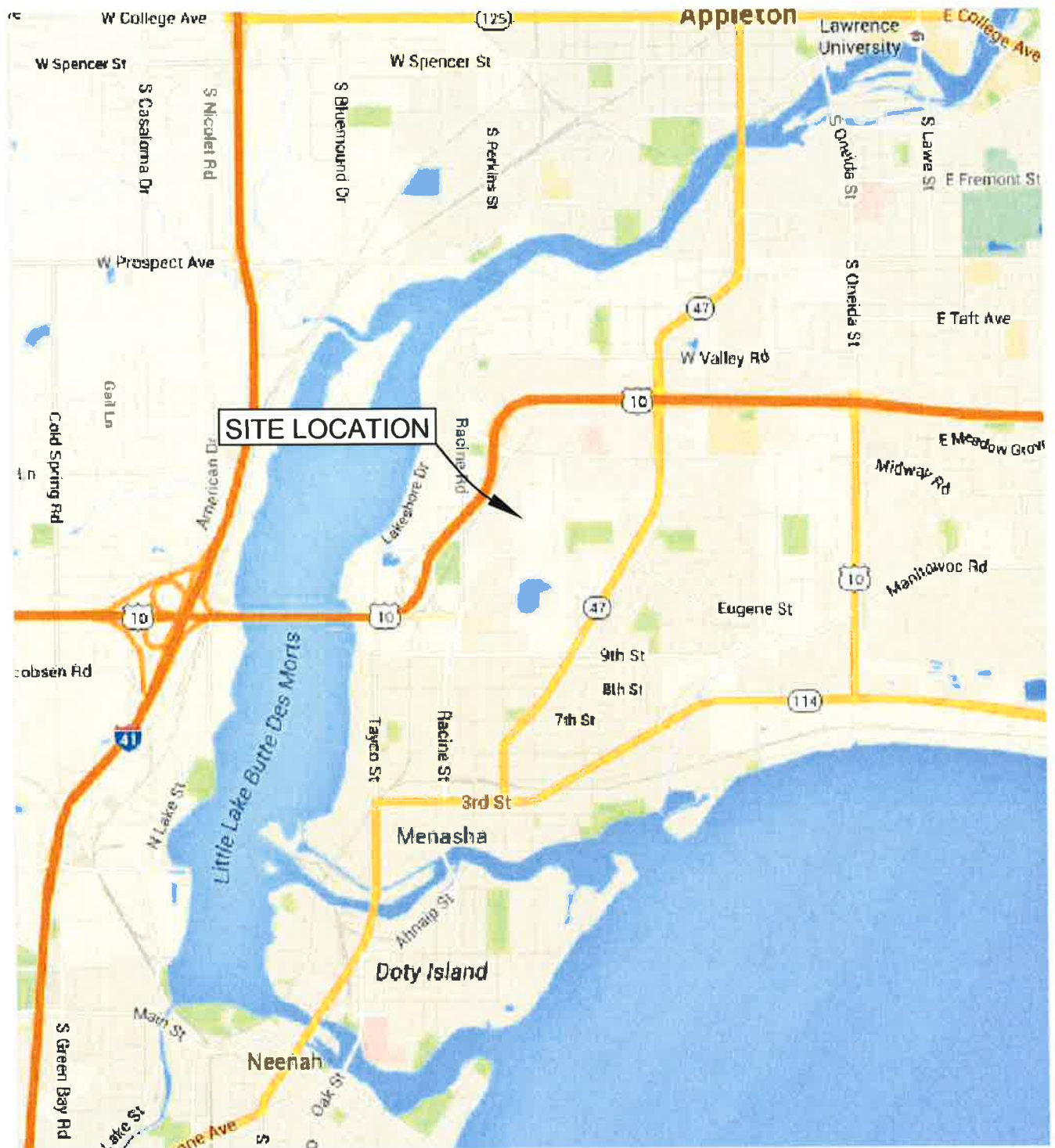


Beth A. Erdman  
Environmental Project Manager

## **APPENDIX A**

### **FIGURES**





### General Engineering Company

P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901  
 608-742-2159 (Office) • 608-742-2592 (Fax)  
[www.generalengineering.net](http://www.generalengineering.net)

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### SITE LOCATION MAP

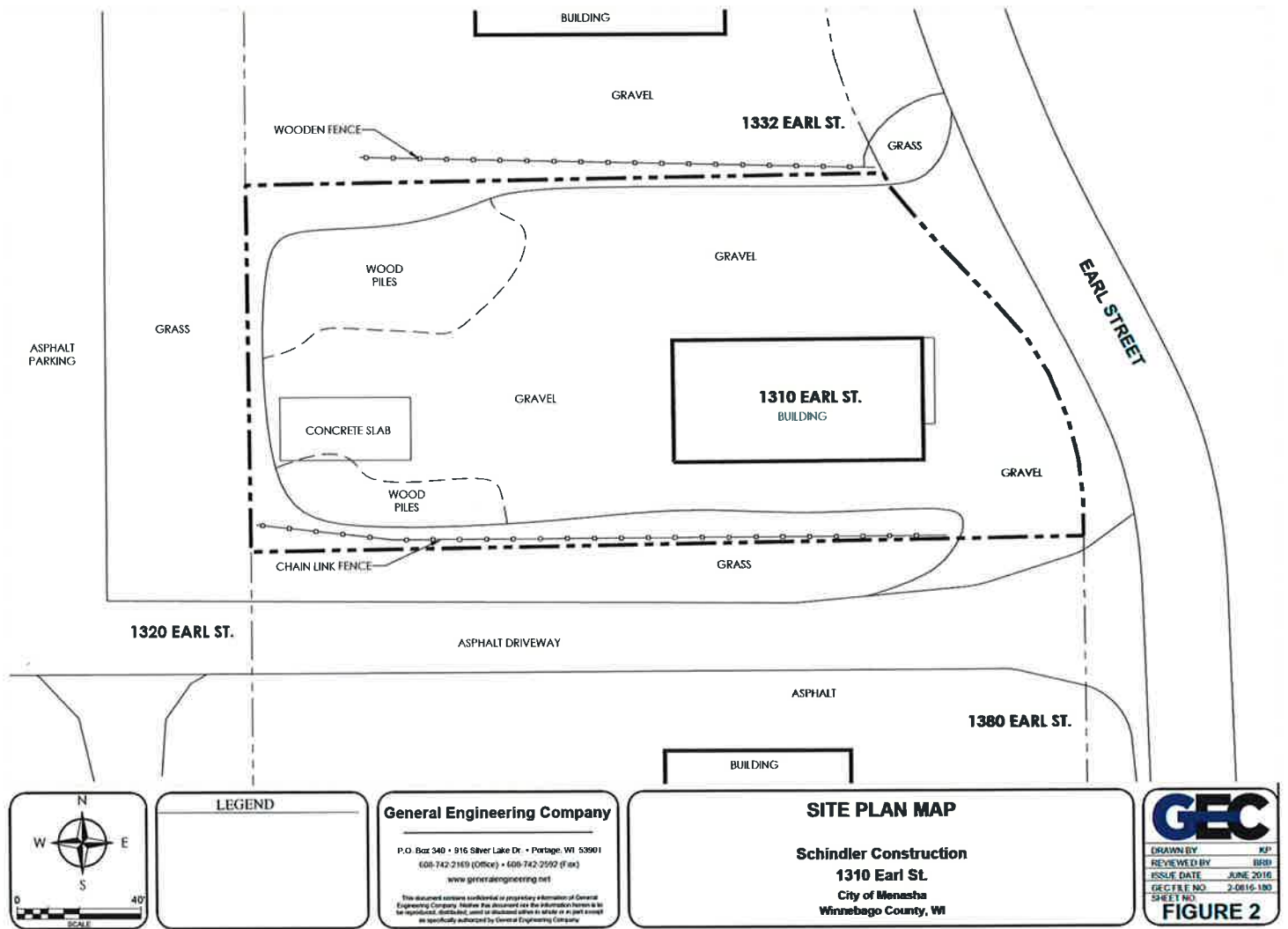
**Schinder Construction**  
 1310 Earl St.  
 City of Menasha  
 Winnebago County, WI



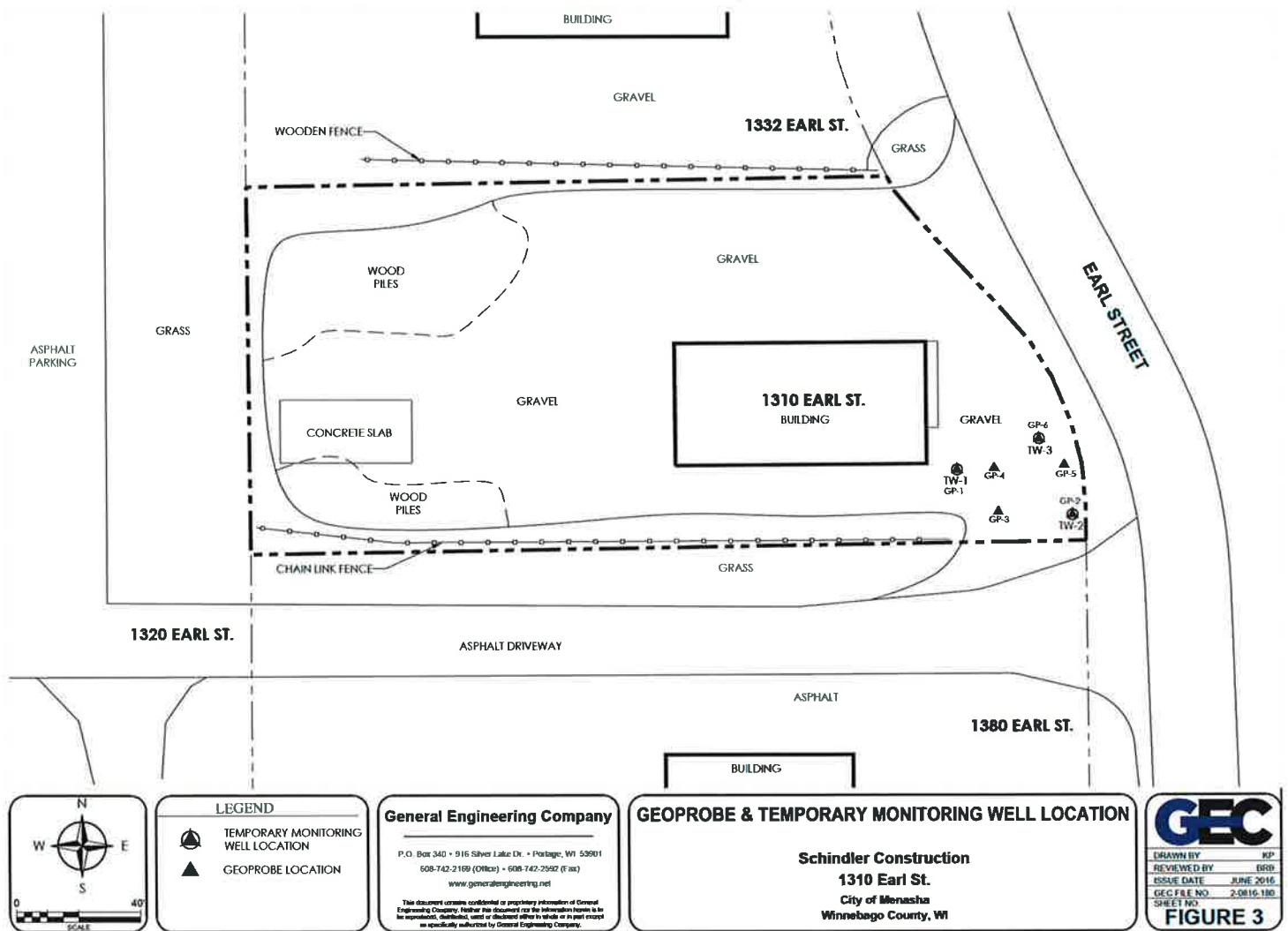
DRAWN BY	KP
REVIEWED BY	LMB
ISSUE DATE	June 2016
GEC FILE NO.	2-0816-180
SHEET NO.	

### FIGURE 1

G:\Current File R-2\Schindler Construction Company 2-0816-180\CAD 2-0516-180\DWG\_BNVTN\2-0816-180-BU-6-5-16.dwg, 6/7/2016 7:48:43 AM, DWG To PDF.plt



G:\Current Files R-2\Schindler Construction Company 2-0516-180\CAD 2-0516-180\6-BN\TLC\0616-180-EX-6-4-1.dwg, 7/12/2016 2:56:28 PM, DWG TO PDF.plt



## **APPENDIX B**

### **TABLES**

**TABLE 1**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**SCHINDLER CONSTRUCTION COMPANY**  
**MENASHA, WISCONSIN**

Sample No.	NC RCL (ug/kg)	C RCL (ug/kg)	Not-To- Exceed D-C RCL (ug/kg)	Soil to Groundwater RCL (ug/kg)	GP-1	GP-2	GP-3		GP-4		GP-5		GP-6
Sampling Date					06/29/16	06/29/16	06/29/16		06/29/16		06/29/16		06/29/16
Sample Depth (feet)					1-3	3	1-3	10-12	1-3	8-10	1-3	8-10	1-3
PETROLEUM VOLATILE ORGANIC COMPOUNDS (PVOC) (ug/kg)													
Benzene	111,000	1,490	1,490	5.1	<25	<25	<25	<25	<25	<25	<25	<25	
Ethylbenzene	4,200,000	7,470	7,470	1,570	<25	<25	<25	<25	<25	<25	<25	<25	
Methyl tert-butyl ether	23,800,000	59,400	59,400	27	<25	<25	<25	<25	<25	<25	<25	<25	
Naphthalene	188,000	5,150	5,150	658	<25	132	<25	<25	<25	<25	<25	<25	
Toluene	5,300,000	NE	818,000	1,107	<25	<25	<25	<25	<25	<25	<25	<25	
1,2,4-Trimethylbenzene	89,800	NE	89,800	1,382	<25	<25	<25	<25	<25	<25	<25	<25	
1,3,5-Trimethylbenzene	782,000	NE	182,000	1,382	<25	48	<25	<25	<25	<25	<25	<25	
Xylenes, -m, -p	890,000	NE	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	
Xylenes, -o					<75	<75	<75	<75	<75	<75	<75		

mg/kg = milligrams per kilogram

RCL = Residual Contaminant Level

NC = Non Cancer

C = Cancer

DC = Direct Contact

NA = Parameter not analyzed

NE = NR 720 RCL not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold Indicates analytical results exceed NR 720 NC RCL.

Italic Indicates analytical results exceed NR 720 Not-To-Exceed D-C RCL.

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**SCHINDLER CONSTRUCTION COMPANY**  
**MENASHA, WISCONSIN**

Monitoring Well	NR 140		TW-1	TW-2	TW-3
Sampling Date	ES	PAL	7/4/2016	7/4/2016	7/4/2016
<b>PETROLEUM VOLATILE ORGANIC COMPOUNDS (PVOC) (µg/L)</b>					
Benzene	5	0.5	<0.46	<0.46	<0.46
Ethylbenzene	700	140	<0.73	<0.73	<0.73
Methyl tert-butyl ether	60	12	<0.49	<0.49	<0.49
Naphthalene	100	10	<2.6	<2.6	<2.6
Toluene	1000	200	<0.39	<0.39	<0.39
1,2,4 -Trimethylbenzene	480	96	<0.68	<0.68	<0.68
1,3,5 -Trimethylbenzene			<0.83	<0.83	<0.83
Xylenes, -m, -p	10000	1000	<2.06	<2.06	<2.06
Xylenes, -o			<2.06	<2.06	<2.06

ES = Enforcement Standard

PAL = Preventive Action Limit

µg/L = micrograms per liter

NA = Parameter not analyzed

NE = NR 140 ES not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results above NR 140 ES



**APPENDIX C**

**SOIL AND GROUNDWATER**

**ANALYTICAL REPORTS AND**

**CHAIN OF CUSTODY FORMS**

# Synergy

Chain # 271L

Page \_\_\_\_\_ of \_\_\_\_\_

**Environmental Lab, Inc.**

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

## Sample Handling Request

**Rush Analysis Date Required**  
(Rushes accepted only with prior authorization)

## Normal Turn Around

[illegible]

## CHAIN OF STUDY RECORD

Synergy

Chain # No 271

Page of

Lab I.D. #	Quote No.:
Account No.:	
Project #:	
Sampler (signature)	

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

## Sample Handling Request

Rush Analysis Date Required  
(Rushes accepted only with prior authorization)

Normal Turn Around

Project (Name / Location): <u>Schaller Construction</u>		Invoice To:		Analysis Requested		Other Analysis	
Reports To: <u>Brian Vengas</u>	Company: <u>GEC</u>	Company:					
Address: <u>416 Silver Creek Dr.</u>	Address:						
City State Zip: <u>Portage WI 55901</u>	City State Zip:						
Phone: <u>608 697 8010</u>	Phone:						
FAX:	FAX:						

Lab I.D.	Sample I.D.	Collection Date Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation	DRO (Mod DRO Sep 95)	GRO (Mix GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC (EPA 8260)	8-BCRA METALS	PID:	FID
503303A	GP-1 1-3	6/29/16 AM		X		2	S	none															
B	GP-2 1-3	6/29/16 AM		X		2																	
C	GP-3 1-3			X		2																	
D	GP-3 10-14			X																			
E	GP-4 1-3			X																			
F	GP-4 8-10			X																			
G	GP-5 1-3	PM		X																			
H	GP-5 8-10	PM		X																			
I	GP-6 1-3			X																			

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Received By: [Signature] Time: 2:19pm 6/29/16

Sample Integrity - To be completed by receiving lab.	Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Method of Shipment: <u>exp-otc</u>						
Temp. of Temp. Blank: <u>X</u> °C On Ice: <u>X</u>						
Cooler seal intact upon receipt: <u>X</u> Yes ___ No	Received in Laboratory By: <u>[Signature]</u>	Time: <u>2:20</u>	Date: <u>6/29/16</u>			

# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

BRIAN YOUNGWIRTH  
GENERAL ENGINEERING  
916 SILVER LAKE DRIVE  
PORTAGE, WI 53901

Report Date 11-Jul-16

Project Name SCHINDLER CONSTRUCTION  
Project #

Invoice # E31320

Lab Code 5031320A  
Sample ID TW-1  
Sample Matrix Water  
Sample Date 7/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		7/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		7/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		7/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		7/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		7/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		7/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		7/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		7/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		7/8/2016	CJR	1

Lab Code 5031320B  
Sample ID TW-2  
Sample Matrix Water  
Sample Date 7/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		7/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		7/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		7/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		7/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		7/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		7/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		7/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		7/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		7/8/2016	CJR	1

Project Name SCHINDLER CONSTRUCTION

Invoice # E31320

Project #

Lab Code 5031320C

Sample ID TW-3

Sample Matrix Water

Sample Date 7/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021	7/8/2016	7/8/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code

Comment

1

Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

BRIAN YOUNGWIRTH  
GENERAL ENGINEERING  
916 SILVER LAKE DRIVE  
PORTAGE, WI 53901

Report Date 06-Jul-16

Project Name SCHINDLER CONSTRUCTION  
Project #

Invoice # E31303

Lab Code 5031303A  
Sample ID GP-1 1-3  
Sample Matrix Soil  
Sample Date 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.8	%			1	5021		6/30/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1



Project Name SCHINDLER CONSTRUCTION

Invoice # E31303

Project #

Lab Code 5031303B

Sample ID GP-2 3'

Sample Matrix Soil

Sample Date 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.8	%			1	5021		6/30/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	0.132	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	0.048	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

Lab Code 5031303C

Sample ID GP-3 1-3'

Sample Matrix Soil

Sample Date 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.3	%			1	5021		6/30/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

**Project Name** SCHINDLER CONSTRUCTION  
**Project #**

**Invoice #** E31303

**Lab Code** 5031303D  
**Sample ID** GP-3 10-12'  
**Sample Matrix** Soil  
**Sample Date** 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	77.0	%			1	5021		6/30/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

**Lab Code** 5031303E  
**Sample ID** GP-4 1-3'  
**Sample Matrix** Soil  
**Sample Date** 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.2	%			1	5021		6/30/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

**Project Name** SCHINDLER CONSTRUCTION  
**Project #**

**Invoice #** E31303

**Lab Code** 5031303F  
**Sample ID** GP-4 8-10'  
**Sample Matrix** Soil  
**Sample Date** 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	77.0	%			1	5021		6/30/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

**Lab Code** 5031303G  
**Sample ID** GP-5 1-3'  
**Sample Matrix** Soil  
**Sample Date** 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.3	%			1	5021		6/30/2016	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

**Project Name** SCHINDLER CONSTRUCTION  
**Project #**

**Invoice #** E31303

**Lab Code** 5031303H  
**Sample ID** GP-5 8-10'  
**Sample Matrix** Soil  
**Sample Date** 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>General</b>										
<b>General</b>										
Solids Percent	76.9	%			1	5021		6/30/2016	NJC	1
<b>Organic</b>										
<b>PVOC + Naphthalene</b>										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

**Lab Code** 5031303I  
**Sample ID** GP-6 1-3'  
**Sample Matrix** Soil  
**Sample Date** 6/29/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>General</b>										
<b>General</b>										
Solids Percent	78.4	%			1	5021		6/30/2016	NJC	1
<b>Organic</b>										
<b>PVOC + Naphthalene</b>										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/5/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		7/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/5/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		7/5/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		7/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		7/5/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		7/5/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		7/5/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code** **Comment**

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



**APPENDIX D**








**SOIL BORING LOGS AND**

**MONITORING WELL CONSTRUCTION LOGS AND**


**WELL DEVELOPMENT FORMS**

Route To:  
☐ Solid Waste  
☐ Emergency Response  
☐ Wastewater  
☐ Haz. Waste  
☐ Underground Tanks  
☐ Water Resources  
☐ Other

<b>Facility / Project Name</b> Schindler Construction		<b>License /Permit /Monitoring / GEC Project No.</b> 2-0516-180		<b>Boring Number</b>  <b>G-1 / TW-1</b>	
<b>Boring Drilled By</b> (Firm name and name of crew chief) Kitson Environmental Greg Kitson		<b>Drilling Method</b> Geoprobe	<b>Borehole Diameter</b> 2		
<b>Date Drilling Started</b> 6/29/2016	<b>Date Drilling Ended</b> 6/29/2016	<b>Boring Location State Plane</b> N, E SE - NW, Sect. 11,T20N,R17E		<b>Lat</b> 44.22557 <b>Long</b> -88.438128	<b>DNR County Code</b> 71
<b>Local Grid Location</b> (If applicable) Feet S                      Feet W		<b>County</b> Winnebago		<b>Civil Town / City / Village</b> City of Menasha	

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well Diagram	Blow Count	Odor	PID	Remarks
	6" - GRAVEL		GW						
1	-1.0		OL						
	Dark brown SILT, moist (Possible Buried Topsoil)								
	Reddish brown, Silty CLAY, moist								
2	-2.0	SS-1					No	0	Lab sample
3	-3.0								
4	-4.0								
5	-5.0								
6	-6.0	SS-2					No	0	
7	-7.0								
8	-8.0		CL						
	Reddish brown, Silty CLAY, moist to wet								
9	-9.0								
10	-10.0	SS-3					No	0	
	Reddish brown, Silty CLAY, wet								
11	-11.0								
12	-12.0								
	Reddish brown, Silty CLAY, with gravel, wet								
13	-13.0								
14	-14.0	SS-4					No	0	
15	-15.0								
<b>END OF BORING: 15.0'</b>									
16	-16.0								
17	-17.0								
18	-18.0								

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

Signature 	Brian Youngwirth Firm
---	-----------------------

**General Engineering Company**  
 916 Silver Lake Dr., P.O. BOX 340  
 Portage WI 53901


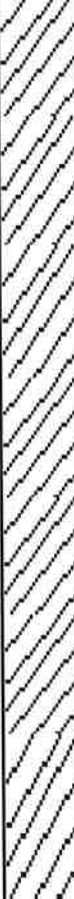







Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.




Route To:  
☐ Solid Waste  
☐ Emergency Response  
☐ Wastewater  
☐ Haz. Waste  
☐ Underground Tanks  
☐ Water Resources  
☐ Other

Facility / Project Name <b>Schindler Construction</b>			License /Permit /Monitoring / GEC Project No. <b>2-0516-180</b>			Boring Number <b>G-2 / TW-2</b>		
Boring Drilled By (Firm name and name of crew chief) <b>Kitson Environmental Greg Kitson</b>			Drilling Method <b>Geoprobe</b>		Borehole Diameter <b>2</b>			
Date Drilling Started <b>6/29/2016</b>		Date Drilling Ended <b>6/29/2016</b>		Boring Location State Plane N, E <b>SE - NW, Sect. 11,T20N,R17E</b>			DNR County Code <b>71</b>	
Local Grid Location (If applicable) Feet S                      Feet W				County <b>Winnebago</b>		Civil Town / City / Village <b>City of Menasha</b>		

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well Diagram	Blow Count	Odor	PID	Remarks
	<b>6" - GRAVEL</b>		<b>GW</b>						
1 -1.0	Reddish brown, Silty <b>CLAY</b> , moist						Yes	1.5	Lab sample
2 -2.0		<b>SS-1</b>							
3 -3.0									
4 -4.0									
5 -5.0			<b>SS-2</b>				Very Slight	1.3	
6 -6.0									
7 -7.0									
8 -8.0	Reddish brown, Silty <b>CLAY</b> , moist to wet								
9 -9.0							Very Slight	0.3	
10 -10.0	Reddish brown, Silty <b>CLAY</b> , wet	<b>SS-3</b>							
11 -11.0									
12 -12.0	Reddish brown, Silty <b>CLAY</b> , with gravel, wet								
13 -13.0			<b>SS-4</b>				No	0	
14.0 -14.0									
15 -15.0	<b>END OF BORING: 15.0'</b>								
16.0 -16.0									
17.0 -17.0									
18.0 -18.0									

I hereby certify that the information on this form is true and correct to the best of my knowledge		
Signature 	Brian Youngwirth	Firm <b>General Engineering Company</b> 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901

Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.


Route To:  
☐ Solid Waste  
☐ Emergency Response  
☐ Wastewater  
☐ Haz. Waste  
☐ Underground Tanks  
☐ Water Resources  
☐ Other

Facility / Project Name <b>Schindler Construction</b>			License /Permit /Monitoring / GEC Project No. <b>2-0516-180</b>			Boring Number  <b>GP-3</b>		
Boring Drilled By (Firm name and name of crew chief) <b>Kitson Environmental Greg Kitson</b>			Drilling Method <b>Geoprobe</b>		Borehole Diameter <b>2</b>			
Date Drilling Started <b>6/29/2016</b>		Date Drilling Ended <b>6/29/2016</b>		Boring Location State Plane N, E <b>SE - NW, Sect. 11,T20N,R17E</b>			DNR County Code <b>71</b>	
Local Grid Location (If applicable) Feet S                      Feet W				County <b>Winnebago</b>		Civil Town / City / Village <b>City of Menasha</b>		

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well Diagram	Blow Count	Odor	PID	Remarks
	<b>3" - GRAVEL</b>			<b>GW</b>					
	<b>Dark brown SILT (Possible Buried Topsoil)</b>			<b>OL</b>					
1 -1.0	<b>Reddish brown, Silty CLAY, moist</b>								
2 -2.0		<b>SS-1</b>					<b>No</b>	<b>0</b>	<b>Lab sample</b>
3 -3.0									
4 -4.0									
5 -5.0									
6 -6.0		<b>SS-2</b>	<b>CL</b>				<b>No</b>	<b>0</b>	
7 -7.0									
8 -8.0	<b>Reddish brown, Silty CLAY, moist to wet</b>								
9 -9.0									
10 -10.0		<b>SS-3</b>					<b>No</b>	<b>0</b>	<b>Lab sample</b>
11 -11.0									
12 -12.0	<b>End of Geoprobe@ 12.0'</b>								
13 -13.0									
14 -14.0									

I hereby certify that the information on this form is true and correct to the best of my knowledge		
Signature 	Brian Youngwirth Firm	<b>General Engineering Company</b> 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901


Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.

Route To:  
☐ Solid Waste  
☐ Emergency Response  
☐ Wastewater  
☐ Haz. Waste  
☐ Underground Tanks  
☐ Water Resources  
☐ Other

Facility / Project Name Schindler Construction		License / Permit / Monitoring / GEC Project No. 2-0516-180		Boring Number <b>GP-4</b>	
Boring Drilled By (Firm name and name of crew chief) Kitson Environmental Greg Kitson		Drilling Method Geoprobe	Borehole Diameter 2		
Date Drilling Started 6/29/2016	Date Drilling Ended 6/29/2016	Boring Location State Plane N, E SE - NW, Sect. 11, T20N, R17E		Lat 44.22557 Long -88.438128	DNR County Code 71
Local Grid Location (If applicable) Feet S Feet W		County Winnebago		Civil Town / City / Village City of Menasha	

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well Diagram	Blow Count	Odor	PID	Remarks
	6" - GRAVEL								
	Reddish brown, Silty CLAY, moist								
1 -1.0									
2 -2.0		SS-1					No	0	Lab sample
3 -3.0									
4 -4.0									
5 -5.0									
6 -6.0		SS-2	CL				No	0	
7 -7.0									
8 -8.0	Reddish brown, Silty CLAY, wet								
9 -9.0		SS-3					No	0	Lab sample
10 -10.0	End of Geoprobe@ 10.0'								
11 -11.0									
12 -12.0									
13 -13.0									
14 -14.0									

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




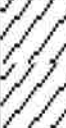
Signature 	Brian Youngwirth Firm	General Engineering Company 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901
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Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.


Route To:

<input type="checkbox"/> Solid Waste	<input type="checkbox"/> Haz. Waste
<input type="checkbox"/> Emergency Response	<input type="checkbox"/> Underground Tanks
<input type="checkbox"/> Wastewater	<input type="checkbox"/> Water Resources
	<input type="checkbox"/> Other

<b>Facility / Project Name</b> Schindler Construction		<b>License /Permit /Monitoring / GEC Project No.</b> 2-0516-180		<b>Boring Number</b>  <b>GP-5</b>	
<b>Boring Drilled By</b> (Firm name and name of crew chief) Kitson Environmental Greg Kitson		<b>Drilling Method</b> Geoprobe	<b>Borehole Diameter</b> 2		
<b>Date Drilling Started</b> 6/29/2016	<b>Date Drilling Ended</b> 6/29/2016	<b>Boring Location State Plane</b> N, E SE - NW, Sect. 11,T20N,R17E		<b>Lat</b> 44.22557 <b>Long</b> -88.438128	<b>DNR County Code</b> 71
<b>Local Grid Location</b> (If applicable) Feet S                      Feet W		<b>County</b> Winnebago		<b>Civil Town / City / Village</b> City of Menasha	

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well Diagram	Blow Count	Odor	PID	Remarks
	6" - GRAVEL								
1	-1.0								
2	-2.0	SS-1					No	0	Lab sample
3	-3.0								
4	-4.0								
5	-5.0								
6	-6.0						No	0	
7	-7.0	SS-2							
8	-8.0								
9	-9.0								
10	-10.0						No	0	Lab sample
11	-11.0								
12	-12.0								
13	-13.0								
14	-14.0								

**End of Geoprobe@ 10.0'**

I hereby certify that the information on this form is true and correct to the best of my knowledge		
Signature 	Brian Youngwirth Firm	<b>General Engineering Company</b> 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901


Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.

Route To:  
☐ Solid Waste  
☐ Emergency Response  
☐ Wastewater  
☐ Haz. Waste  
☐ Underground Tanks  
☐ Water Resources  
☐ Other

Facility / Project Name Schindler Construction		License /Permit /Monitoring / GEC Project No. 2-0516-180		Boring Number <b>GP-6 / TW-3</b>	
Boring Drilled By (Firm name and name of crew chief) Kitson Environmental Greg Kitson		Drilling Method Geoprobe	Borehole Diameter 2		
Date Drilling Started 6/29/2016	Date Drilling Ended 6/29/2016	Boring Location State Plane N, E SE - NW, Sect. 11,T20N,R17E		Lat 44.22557 Long -88.438128	DNR County Code 71
Local Grid Location (If applicable) Feet S Feet W		County Winnebago		Civil Town / City / Village City of Menasha	

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well Diagram	Blow Count	Odor	PID	Remarks
	4" - GRAVEL			GW					
	Dark brown, Clayey SILT, moist (Possible Buried Topsoil)			OL					
1 -1.0	Reddish brown, Silty CLAY, moist		SS-1				No	0	Lab sample
2 -2.0									
3 -3.0									
4 -4.0									
5 -5.0			SS-2	CL			No	0	
6 -6.0									
7 -7.0									
8 -8.0	Reddish brown, Silty CLAY, moist to wet								
9 -9.0									
10 -10.0	Reddish brown, Silty CLAY, wet		SS-3				No	0	
11 -11.0									
12 -12.0	End of Geoprobe@ 12.0'								
13 -13.0									
14 -14.0									

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

Signature 	Brian Youngwirth Firm	General Engineering Company 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901
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Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.

## Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

### Verification Only of Fill and Seal

☐

#### Route to DNR Bureau:

☐ Drinking Water☐ Watershed/Wastewater☐ Remediation/Redevelopment☐ Waste Management☐ Other: \_\_\_\_\_

### 1. Well Location Information

County <b>Winnebago</b>	WI Unique Well # of Removed Well	Hicap #
Latitude / Longitude (see instructions) <b>44.225570</b> N <b>-88.438128</b> W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 SE 1/4 NW or Gov't Lot #	Section <b>11</b>	Township <b>20</b> N Range <input checked="" type="checkbox"/> E <b>17</b> W
Well Street Address <b>1310 Earl St.</b>		
Well City, Village or TOWN <b>City of Menasha</b>		Well ZIP Code
Subdivision Name		Lot #

### 2. Facility / Owner Information

Facility Name <b>Schindler Construction</b>		
Facility ID (FID or PWS) <b>B-3</b>		
License/Permit/Monitoring # <b>GEC # 2-0816-180</b>		
Original Well Owner <b>Schindler Construction</b>		
Present Well Owner <b>Schindler Construction</b>		
Mailing Address of Present Owner <b>2721 Manitowoc Rd</b>		
City of Present Owner <b>Green Bay</b>	State <b>WI</b>	ZIP Code

Reason for Removal from Service <b>Sampling completed</b>	WI Unique Well # of Replacement Well
--	--------------------------------------

### 3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) <b>6/29/16</b> If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

### 4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	

Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

### 5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Surface</b>	<b>12</b>	<b>3 bags</b>	

### 6. Comments

### 7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Brian Youngwirth</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>6/29/16</b>	Date Received	Noted By
Street or Route <b>916 Silver Lake Dr.</b>		Telephone Number <b>( 608 ) 742 -2 169</b>	Comments	
City <b>Portage</b>	State <b>WI</b>	ZIP Code <b>53901</b>	Signature of Person Doing Work <i>Brian Youngwirth</i>	
			Date Signed	



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

## Verification Only of Fill and Seal

☐

### Route to DNR Bureau:

☐ Drinking Water☐ Watershed/Wastewater☐ Remediation/Redevelopment☐ Waste Management☐ Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>Winnebago</b>		WI Unique Well # of Removed Well		Facility Name <b>Schindler Construction</b>		Facility ID (FID or PWS) <b>B-4</b>	
Latitude / Longitude (see instructions) <b>44.225570</b> N <b>-88.438128</b> W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		License/Permit/Monitoring # <b>GEC # 2-0816-180</b>	
1/4 1/4 SE or Gov't Lot #		Section <b>11</b>		Township <b>20 N</b>		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>1310 Earl St.</b>				Original Well Owner <b>Schindler Construction</b>			
Well City, Village or TOWN <b>City of Menasha</b>				Present Well Owner <b>Schindler Construction</b>			
Subdivision Name				Well ZIP Code		Mailing Address of Present Owner <b>2721 Manitowoc Rd</b>	
Reason for Removal from Service <b>Sampling completed</b>				WI Unique Well # of Replacement Well		City of Present Owner <b>Green Bay</b>	
WI Unique Well # of Replacement Well				Lot #		State <b>WI</b>	
3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <b>6/29/16</b>		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type:				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.)		Casing Diameter (in.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				Required Method of Placing Sealing Material			
If yes, to what depth (feet)?		Depth to Water (feet)		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
				<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
5. Material Used to Fill Well / Drillhole				Sealing Materials			
3/8" Bentonite Chips				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
				From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight			
				Surface 12 3 bags			
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing <b>Brian Youngwirth</b>		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>6/29/16</b>		Date Received	
Street or Route <b>916 Silver Lake Dr.</b>		Telephone Number <b>( 608 ) 742 -2 169</b>		Comments		Noted By	
City <b>Portage</b>		State <b>WI</b>		ZIP Code <b>53901</b>		Signature of Person Doing Work <i>Brian Youngwirth</i>	
						Date Signed	

## Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

### Verification Only of Fill and Seal

☐

### Route to DNR Bureau:

☐ Drinking Water☐ Watershed/Wastewater☐ Remediation/Redevelopment☐ Waste Management☐ Other: \_\_\_\_\_

### 1. Well Location Information

County <b>Winnebago</b>	WI Unique Well # of Removed Well	Hicap #
Latitude / Longitude (see instructions) <b>44.225570</b> N <b>-88.438128</b> W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 SE or Gov't Lot #	1/4 NW Section <b>11</b>	Township <b>20</b> Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W <b>17</b>
Well Street Address <b>1310 Earl St.</b>		
Well City, Village or TOWN <b>City of Menasha</b>		
Subdivision Name		Well ZIP Code
Reason for Removal from Service <b>Sampling completed</b>		WI Unique Well # of Replacement Well _____

### 2. Facility / Owner Information

Facility Name <b>Schindler Construction</b>		
Facility ID (FID or PWS) <b>B-5</b>		
License/Permit/Monitoring # <b>GEC # 2-0816-180</b>		
Original Well Owner <b>Schindler Construction</b>		
Present Well Owner <b>Schindler Construction</b>		
Mailing Address of Present Owner <b>2721 Manitowoc Rd</b>		
City of Present Owner <b>Green Bay</b>	State <b>WI</b>	ZIP Code

### 3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) <b>6/29/16</b> If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

### 4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	


Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

### 5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<b>12</b>	<b>3 bags</b>	

### 6. Comments

### 7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing <b>Brian Youngwirth</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>6/29/16</b>	DNR Use Only	
Street or Route <b>916 Silver Lake Dr.</b>	Telephone Number <b>( 608 ) 742-2169</b>	Comments	Date Received	Noted By
City <b>Portage</b>	State <b>WI</b>	ZIP Code <b>53901</b>	Signature of Person Doing Work 	Date Signed

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

<b>Facility / Project Name</b> Schindler Construction	<b>Local Grid Location of Well</b> Feet S      Feet W	<b>Well Name</b> TW-1
<b>License /Permit /MES No.</b> 2-0516-180	<b>Grid Origin Location</b>	<b>Wis. Unique No.</b> N/A
<b>Type Of Well</b> Water Table Observation <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	<b>Section Location of Waste / Source</b> SE - NW, Section 11, T20N, R17E	<b>Date Well Installed</b> 6/29/2016
<b>Distance Well is From Waste/Source Boundary</b>	<b>Location to Well Relative to Waste/Source</b> u <input type="checkbox"/> Upgradient      s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> downgradient      n <input type="checkbox"/> Not Shown	<b>Well Installed By: (Persons Name &amp; Firm)</b> Greg Kitson Kitson Environmental
<b>Is Well a Point of Enforcement Std. Application</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL

B. Well casing, top elevation \_\_\_\_\_ ft. MSL

C. Land surface elevation \_\_\_\_\_ ft. MSL

D. Surface seal, bottom \_\_\_\_\_ ft. MSL

12. USCS Classification of soil near screen:  
GP ☐ GM ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ CL ☒ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50  
Hollow stem auger ☐ 41  
Geoprobe \_\_\_\_\_ Other ☒

15. Drilling fluid used: Water ☐ 02 Air ☐ 50  
Drilling Mud ☐ 03 None ☒ 41

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis) \_\_\_\_\_

1. Cap and Lock? ☐ Yes ☒ No

2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in  
b. Length: \_\_\_\_\_ ft  
c. Material: Steel ☐ 4  
Other ☐  
d. Additional protection? ☒ Yes ☐ No  
If yes, describe: PVC Cap

3. Surface seal: Bentonite ☒ 30  
Concrete ☐ 1  
Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30  
Annular space seal ☐  
Other ☐

5. Annular space seal a. Granular Bentonite ☒ 33  
b. \_\_\_\_\_ Lbs/gal mud weight ..... Bentonite-sand slurry ☐ 35  
c. \_\_\_\_\_ Lbs/gal mud weight ..... Bentonite slurry ☐ 31  
d. \_\_\_\_\_ % Bentonite ..... Bentonite-cement grout ☐ 50  
e. \_\_\_\_\_ Ft3 volume added for any of the above  
f. How installed: Tremie ☐ 1  
Tremie pumped ☐ 2  
Gravity ☒ 8

6. Bentonite seal: a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
Other ☐

7. Fine sand material: Manufacture, product name and mesh size  
a. None  
v. Volume added \_\_\_\_\_ ft3

8. Filter pack material: Manufacture, product name and mesh size  
a. None  
v. Volume added \_\_\_\_\_ ft3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐

10. screen Material: a. Screen type: Factory Cut ☒ 11  
Continuous slot ☐ 1  
Other ☐  
b. Manufacture: Diedrich  
c. Slot size: 0.01 in.  
d. Slotted length: 10 ft.

11. Backfill Material: None ☒ 14  
Other ☐

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 0.5 ft.

F. Fine sand, top \_\_\_\_\_ ft. MSL or 0.0 ft.

G. Filter pack, top \_\_\_\_\_ ft. MSL or 0.0 ft.

H. Screen joint, top \_\_\_\_\_ ft. MSL or 5.0 ft.

I. Well bottom \_\_\_\_\_ ft. MSL or 15.0 ft.

J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 15.0 ft.

K. Borehole, bottom \_\_\_\_\_ ft. MSL or 15.0 ft.

L. Borehole, diameter 1.25 in

M. O.D. Well casing 1.66 in

N. I.D. Well casing 1.28 in

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

Signature

*Brian A. Johnson*

Firm

General Engineering Company  
916 Silver Lake Dr., P>O> Box 340  
Portage, WI 53901

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

<b>Facility / Project Name</b> Schindler Construction		<b>Local Grid Location of Well</b> Feet S      Feet W		<b>Well Name</b> TW-2	
<b>License /Permit /MES No.</b> 2-0516-180		<b>Grid Origin Location</b>		<b>Wis. Unique No.</b> N/A	
<b>Type Of Well</b> Water Table Observation <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12		<b>Section Location of Waste / Source</b> SE - NW, Section 11, T20N, R17E		<b>Date Well Installed</b> 6/29/2016	
<b>Distance Well is From Waste/Source Boundary</b>		<b>Location to Well Relative to Waste/Source</b> u <input type="checkbox"/> Upgradient      s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> downgradient      n <input type="checkbox"/> Not Shown		<b>Well Installed By: (Persons Name &amp; Firm)</b> Greg Kitson Kitson Environmental	
<b>Is Well a Point of Enforcement Std. Application</b> <input type="checkbox"/> Yes <input type="checkbox"/> No					

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL</p>	<p>1. Cap and Lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe:</p> <p>a. Inside diameter: _____ in</p> <p>b. Length: _____ ft</p> <p>c. Material: Steel <input type="checkbox"/> 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: PVC Cap</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Annular space seal <input type="checkbox"/> Other <input type="checkbox"/></p> <p>5. Annular space seal</p> <p>a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. Lbs/gal mud weight ..... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight ..... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite ..... Bentonite-cement grout <input type="checkbox"/> 50 e. FT3 volume added for any of the above _____</p> <p>f. How installed: Tremie <input type="checkbox"/> 1 Tremie pumped <input type="checkbox"/> 2 Gravity <input checked="" type="checkbox"/> 8</p> <p>6. Bentonite seal:</p> <p>a. Bentonite Granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 32 Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacture, product name and mesh size a. None v. Volume added _____ ft3</p> <p>8. Filter pack material: Manufacture, product name and mesh size a. None v. Volume added _____ ft3</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. screen Material:</p> <p>a. Screen type: Factory Cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 1 Other <input type="checkbox"/></p> <p>b. Manufacture: Diedrich</p> <p>c. Slot size: 0.01 in.</p> <p>d. Slotted length: 10 ft.</p> <p>11. Backfill Material: None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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12. USCS Classification of soil near screen:

GP <input type="checkbox"/>	GM <input type="checkbox"/>	GW <input type="checkbox"/>	SW <input type="checkbox"/>	SP <input type="checkbox"/>
SM <input type="checkbox"/>	SC <input type="checkbox"/>	ML <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	CH <input type="checkbox"/>

Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50  
Hollow stem auger ☐ 41  
Geoprobe ☐  
Other ☒

15. Drilling fluid used: Water ☐ 02 Air ☐ 50  
Drilling Mud ☐ 03 None ☒ 41

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis)

E. Bentonite seal, top	_____ ft. MSL or	0.5 ft.
F. Fine sand, top	_____ ft. MSL or	0.0 ft.
G. Filter pack, top	_____ ft. MSL or	0.0 ft.
H. Screen joint, top	_____ ft. MSL or	5.0 ft.
I. Well bottom	_____ ft. MSL or	15.0 ft.
J. Filter pack, bottom	_____ ft. MSL or	15.0 ft.
K. Borehole, bottom	_____ ft. MSL or	15.0 ft.
L. Borehole, diameter	1.25 in	
M. O.D. Well casing	1.66 in	
N. I.D. Well casing	1.28 in	

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

Signature

*Brian A. Johnson*

Firm

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Portage, WI 53901

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

<b>Facility / Project Name</b> Schindler Construction	<b>Local Grid Location of Well</b> Feet S      Feet W	<b>Well Name</b> TW-3
<b>License /Permit /MES No.</b> 2-0516-180	<b>Grid Origin Location</b>	<b>Wis. Unique No.</b> N/A
<b>Type Of Well</b> Water Table Observation <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	<b>Section Location of Waste / Source</b> SE - NW, Section 11, T20N, R17E	<b>Date Well Installed</b> 6/29/2016
<b>Distance Well is From Waste/Source Boundary</b>	<b>Location to Well Relative to Waste/Source</b> u <input type="checkbox"/> Upgradient      s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> downgradient      n <input type="checkbox"/> Not Shown	<b>Well Installed By: (Persons Name &amp; Firm)</b> Greg Kitson Kitson Environmental
<b>Is Well a Point of Enforcement Std. Application</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		

1. Cap and Lock? ☐ Yes ☒ No

2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in  
b. Length: \_\_\_\_\_ ft  
c. Material: Steel ☐ 4, Other ☐  
d. Additional protection? ☒ Yes ☐ No  
If yes, describe: PVC Cap

3. Surface seal: Bentonite ☒ 30, Concrete ☐ 1, Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30, Annular space seal ☐, Other ☐

5. Annular space seal  
a. Granular Bentonite ☒ 33  
b. \_\_\_\_\_ Lbs/gal mud weight ..... Bentonite-sand slurry 35  
c. \_\_\_\_\_ Lbs/gal mud weight ..... Bentonite slurry 31  
d. \_\_\_\_\_ % Bentonite ..... Bentonite-cement grout 50  
e. \_\_\_\_\_ Ft3 volume added for any of the above  
f. How installed: Tremie ☐ 1, Tremie pumped ☐ 2, Gravity ☒ 8

6. Bentonite seal:  
a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32, Other ☐

7. Fine sand material: Manufacture, product name and mesh size  
a. None  
v. Volume added \_\_\_\_\_ ft3

8. Filter pack material: Manufacture, product name and mesh size  
a. None  
v. Volume added \_\_\_\_\_ ft3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23, Flush threaded PVC schedule 60 ☐ 24, Other ☐

10. screen Material:  
a. Screen type: Factory Cut ☒ 11, Continuous slot ☐ 1, Other ☐  
b. Manufacture: Diedrich  
c. Slot size: 0.01 in.  
d. Slotted length: 10 ft.

11. Backfill Material: None ☒ 14, Other ☐

12. USCS Classification of soil near screen:  
GP ☐ GM ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ CL ☒ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50, Hollow stem auger ☐ 41, Geoprobe ☒ Other ☐

15. Drilling fluid used: Water ☐ 02, Air ☐ 50, Drilling Mud ☐ 03, None ☒ 41

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis)

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL

B. Well casing, top elevation \_\_\_\_\_ ft. MSL

C. Land surface elevation \_\_\_\_\_ ft. MSL

D. Surface seal, bottom \_\_\_\_\_ ft. MSL

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 0.5 ft.

F. Fine sand, top \_\_\_\_\_ ft. MSL or 0.0 ft.

G. Filter pack, top \_\_\_\_\_ ft. MSL or 0.0 ft.

H. Screen joint, top \_\_\_\_\_ ft. MSL or 2.0 ft.

I. Well bottom \_\_\_\_\_ ft. MSL or 12.0 ft.

J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 12.0 ft.

K. Borehole, bottom \_\_\_\_\_ ft. MSL or 12.0 ft.

L. Borehole, diameter 1.25 in

M. O.D. Well casing 1.66 in

N. I.D. Well casing 1.28 in

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

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