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ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

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October 27, 2015
Revised July 8, 2020

Wisconsin Department of Natural Resources
141 NW Barstow Street
Waukesha, WI 53188

Attention: Ms. Shanna Laube-Anderson

Subject: Change Order No. 3 - Proposed Additional Site Investigation and Cost Estimate
Martinizing Dry Cleaning Site
1730 State Street
Racine, Wisconsin
Proposal No. 1EP-1904012
BRRTS No. 02-52-549890/FID No. 252251010

Dear Ms. Laube-Anderson:

Giles Engineering Associates, Inc. (Giles) has prepared this Change Order #3 which includes a scope of services and cost estimate on behalf of BMP Realty LLC, owner of the Martinizing Racine property (the "Site"), located at 1730 State Street, in Racine, Wisconsin. Based on our previous correspondence and dialog, it is our understanding that the Wisconsin Department of Natural Resources (WDNR) has requested that additional site investigation (SI) work be completed to determine the vertical extent of contamination near soil boring GP-1/MW-2. In addition, up to four quarterly groundwater sampling events are required to establish the groundwater contaminant trends.

BACKGROUND

The Site operated as a gasoline filling station in the early 1930s to 1970. In 1970, the Site became a self-service coin laundromat and a dry cleaning facility. Dry cleaning operations were performed at the Site until approximately 2004. Currently, the former dry cleaning portion of the building Site is leased and occupied a cell phone store. The south portion of the building continues to operate as a laundromat. Site Plan illustrating the current building is included as Figure 1.

The results of the initial environmental investigation (2007) and the SI (2010) have shown that low-level petroleum volatile organic compounds (PVOCs) and elevated concentrations of chlorinated VOCs (CVOCs) were detected in the soil and groundwater at the Site. The petroleum impacts are inferred to be associated with the historic use of the Site as a gasoline station, and CVOCs are associated with the former on-Site dry cleaning operation. The extent of groundwater impacts are shown on Figure 2 and soil impacts are shown on Figure 3.

The detected PVOCs in soil are generally present on the western portion of the Site at concentrations below the WDNR NR 720 residual contaminant levels (RCLs). CVOCs were detected in soil at levels exceeding the RCLs for protection of groundwater. The distribution of the CVOCs generally appears to be beneath the building and in the paved area immediately northwest of the building. The highest soil concentrations exceed the WDNR landfill standard for Contaminated-Out, Non-Hazardous Material and are located immediately north and west of the service door on the north side of the building. Soil results are summarized in Table 1.

The direction of groundwater flow has been generally to the south or southwest across the Site. However, a "mounded" groundwater condition was noted during groundwater sampling events performed in August and December of 2010, with the high point being monitoring well MW-2, located on the north side of the building.

PVOCs were detected in the groundwater on the west portion of the Site. The detected concentration of benzene exceeded its NR 140 Preventative Action Limit (PAL) or Enforcement Standard (ES) in a groundwater grab sample from temporary well TW-1 in February 2010 and during the two quarterly groundwater sampling events in 2010 in wells MW-6 and MW-7.

Groundwater samples collected from monitoring wells located within the building (MW-1) and to the north, west, and south of the building (MW-2, MW-3, MW-4, MW-7, and MW-8) contained concentrations of CVOCs above their respective NR 140 ES or PAL. Groundwater results are summarized in Table 2.

Sub-slab vapor samples were collected from inside the on-Site building from vapor points VP-1 and VP-2. Vapor point VP-1 was located near the dry cleaning machine, and VP-2 was located in the other unit. Both soil vapor samples contained PCE above the Vapor Risk Screening Level for large commercial/industrial properties. The locations of the sampling points are shown on Figure 4 and the soil gas analytical results are summarized in Table 3.

At this time, it is our understanding that additional SI activities are necessary to determine the vertical extent of contamination near soil boring GP-1/MW-2. In addition, the WDNR has requested that we establish the current groundwater contaminant trends, the extent of groundwater contamination to the north, west and east, and a vapor intrusion assessment for the property to the north. The additional SI activities will be completed prior to bidding the remediation phase of this project.

PROPOSED SCOPE OF SERVICES

- Prepare this Change Order #3 to provide a description of the proposed soil, soil gas, and groundwater sampling services and associated costs for WDNR review and approval.
- Establish top of casing elevations for the existing groundwater monitoring well network, wells MW-1 through MW-8, and gauge the groundwater elevations in each of the wells.
- Re-develop existing wells MW-1 through MW-8. The wells were last sampled in 2010; therefore, redevelopment is necessary to ensure representative groundwater samples are

collected. Development water will be temporarily stored on-Site until Giles can arrange proper disposal.

- Collect one groundwater sample from each of the groundwater monitoring wells (eight samples total) to evaluate the current groundwater conditions at the Site. Groundwater samples will be collected using a peristaltic pump and low-flow sampling techniques. The groundwater samples will be submitted to a Wisconsin Licensed Analytical Laboratory for analysis of VOCs by U.S. EPA Method 8260.
- Evaluate the groundwater results from the initial groundwater sampling event. Based on the results of the initial sampling event, Giles will install up to four NR-141 variance wells, and up to two NR-141 variance piezometers to further define the extent of groundwater contamination at the Site (up to 6 new wells/piezometers total).
- Survey and develop the newly installed wells/piezometers.
- Two soil samples will be collected during the completion of each new well/piezometer and submitted to a Wisconsin licensed analytical laboratory for analysis of VOCs (possible total of 12 soil samples).
- Additionally, Giles will complete two soil borings within the on-Site building to further define the extent of soil impacts. Two soil samples will be collected from each interior boring and submitted to a Wisconsin licensed analytical laboratory for analysis of VOCs.
- Perform up to three quarterly groundwater sampling events to include the existing (8) and any newly installed (up to 6) monitoring wells/piezometers. Sampling events will include a minimum of 8 and a maximum of 14 groundwater samples per sampling event (24 to 42 samples total for three events). Groundwater will be collected using low-flow sampling techniques. The groundwater samples will be submitted to a Wisconsin Licensed Analytical Laboratory for analysis of VOCs by U.S. EPA Method 8260.
- Coordinate the transport and disposal of wastewater generated during development and from the groundwater sampling events, and soil spoils generated during the well installation.
- Install two sub-slab vapor points within the on-Site building, and one within the off-Site garage building that abuts the Site to the north. Collect one sub-slab soil gas sample from each of the three vapor points and submit the samples for laboratory analysis of VOCs.
- Coordinate with a subcontractor for the installation of a sub-slab depressurization system beneath the existing on-Site building's concrete slab. The system will likely require two separate manifolds due to the presence of a structural wall down the center of the building.
- Perform a sub-slab pressure field test after installation of the depressurization system to ensure the system is working properly, and that an adequate pressure field is established (> or = to 0.04 inches of water).
- Prepare a Supplemental Investigation Report summarizing the tasks performed, results of soil, soil gas, and groundwater chemical analyses, and provide recommendations for additional delineation, site characterization, monitoring, or remediation.

Proposed locations of the groundwater wells, piezometers, and soil samples included in the scope of services are shown on Figures 1 through 3. The proposed sub-slab depressurization system and locations of the two proposed sub-slab vapor points are shown on Figure 4.

COST

The estimated cost to complete referenced scope of services is **$32,870**. The costs for soil and groundwater sampling assumes that in addition to the eight existing wells, four groundwater monitoring wells and two piezometers will be installed and sampled (total of 14 wells/piezometers in the groundwater monitoring network). The cost also assumes that the two interior soil borings will be completed the same day the additional wells/piezometers are installed. Should these wells/piezometers not be installed, the drilling costs for mobilization/demobilization costs and decontamination would still apply.

A detailed cost summary is attached as Table 4 and in the attached DERF Investigation Bid Sheet (WDNR Form 4400-233). The estimated costs have been prepared based on good-faith estimates submitted from select qualified commodity service providers based on the proposed scope of services. Due to the potential for WDNR revisions/additional to the scope of services, final compensation will be determined based on the actual lineal footage of borings drilled, waste disposal tipping and transportation fees, number of types of laboratory tests performed, and the actual costs for professional services. Also, it should be noted that the fees presented in the attached bid sheets do not include costs for expedited analytical turnaround time

If project costs are envisioned to exceed the estimated amount due to circumstances listed in NR169.21(2)(e), Giles will not incur additional costs in excess of $3,000.00 or 5 percent of the total project amount (whichever is lower) without prior authorization from you and the WDNR. Additional communication, correspondence, or supplemental reporting is not included in the scope of services or cost estimate.

SCHEDULE

Giles anticipates 10 to 12 months from the anticipated date of authorization to proceed to complete through the completion of the proposed scope of services.

GILES ENGINEERING ASSOCIATES, INC.

CLOSURE

Thank you for the opportunity to offer our engineering services. Should you have any questions relating to the proposed services or if we can be of additional assistance, please do not hesitate to call.

Respectfully submitted,

GILES ENGINEERING ASSOCIATES, INC.

Kevin T. Bugel, P.G., C.P.G.
Environmental Division Manager

ENCLOSURES

Figures:
Figure 1 Site Plan
Figure 2 Soil Analytical Results
Figure 3 Groundwater Analytical Results
Figure 4 Proposed Sub-Slab Depressurization System

Attachments:
Table 1 Soil Analytical Results
Table 2 Groundwater Analytical Results
Table 3 Vapor Analytical Results
Table 4 Proposed Cost Estimate
DERF Site Investigation Bid Sheet Form 4400-233 (R4/04)

Distribution:
Wisconsin Department of Natural Resources
Attn: Ms. Shanna Laube-Anderson (via USPS and DNR Upload)
BMP Realty
Attn: Mr. Jason Berry (via email: jberry1907@gmail.com)

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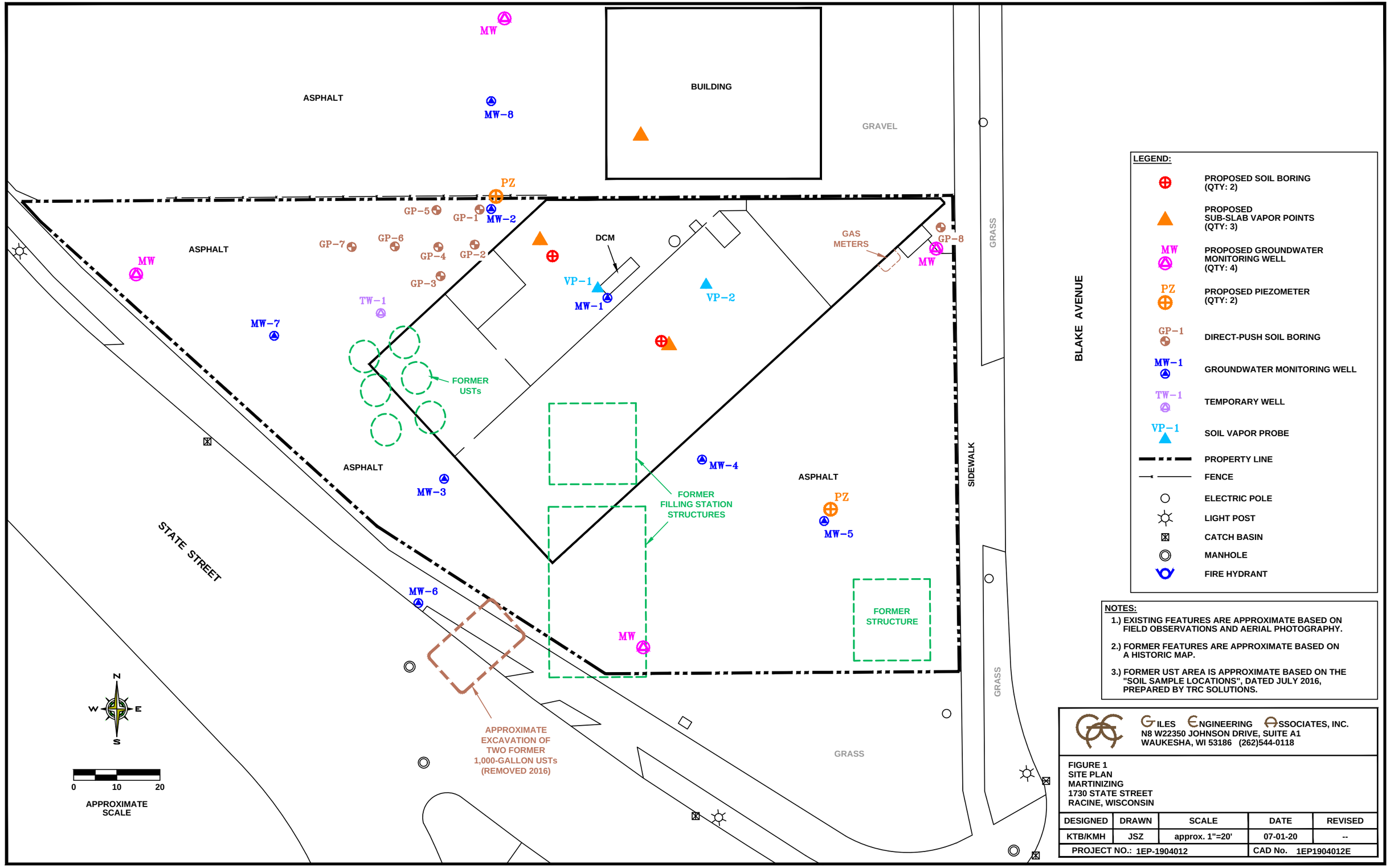

LEGEND:

- PROPOSED SOIL BORING (QTY: 2)
- PROPOSED SUB-SLAB VAPOR POINTS (QTY: 3)
- MW — PROPOSED GROUNDWATER MONITORING WELL (QTY: 4)
- PZ — PROPOSED PIEZOMETER (QTY: 2)
- GP-1 — DIRECT-PUSH SOIL BORING
- MW-1 — GROUNDWATER MONITORING WELL
- TW-1 — TEMPORARY WELL
- VP-1 — SOIL VAPOR PROBE
- PROPERTY LINE
- FENCE
- ELECTRIC POLE
- LIGHT POST
- CATCH BASIN
- MANHOLE
- FIRE HYDRANT

NOTES:

1.) EXISTING FEATURES ARE APPROXIMATE BASED ON FIELD OBSERVATIONS AND AERIAL PHOTOGRAPHY.

2.) FORMER FEATURES ARE APPROXIMATE BASED ON A HISTORIC MAP.

3.) FORMER UST AREA IS APPROXIMATE BASED ON THE "SOIL SAMPLE LOCATIONS", DATED JULY 2016, PREPARED BY TRC SOLUTIONS.

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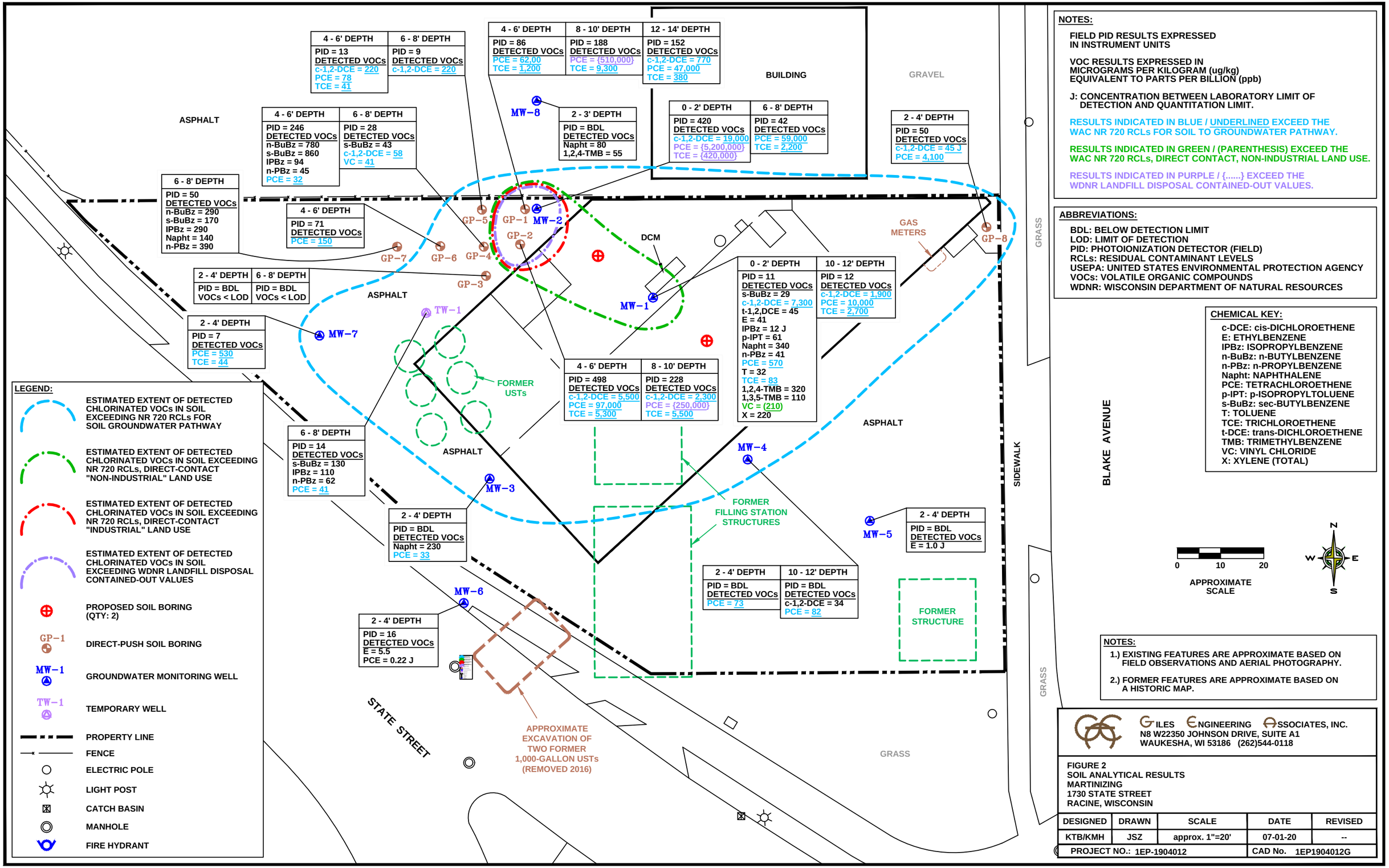
WAUKESHA, WI 53186 (262)544-0118

FIGURE 1
SITE PLAN
MARTINIZING
1730 STATE STREET
RACINE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/KMH	JSZ	approx. 1"=20'	07-01-20	--
PROJECT NO.: 1EP-1904012			CAD No. 1EP1904012E	



NOTES:

FIELD PID RESULTS EXPRESSED IN INSTRUMENT UNITS

VOC RESULTS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg) EQUIVALENT TO PARTS PER BILLION (ppb)

J: CONCENTRATION BETWEEN LABORATORY LIMIT OF DETECTION AND QUANTITATION LIMIT.

RESULTS INDICATED IN BLUE / UNDERLINED EXCEED THE WAC NR 720 RCLs FOR SOIL TO GROUNDWATER PATHWAY.

RESULTS INDICATED IN GREEN / (PARENTHESIS) EXCEED THE WAC NR 720 RCLs, DIRECT CONTACT, NON-INDUSTRIAL LAND USE.

RESULTS INDICATED IN PURPLE / {.....} EXCEED THE WDNR LANDFILL DISPOSAL CONTAINED-OUT VALUES.

ABBREVIATIONS:

BDL: BELOW DETECTION LIMIT
LOD: LIMIT OF DETECTION
PID: PHOTOIONIZATION DETECTOR (FIELD)
RCLs: RESIDUAL CONTAMINANT LEVELS
USEPA: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
VOCs: VOLATILE ORGANIC COMPOUNDS
WDNR: WISCONSIN DEPARTMENT OF NATURAL RESOURCES

CHEMICAL KEY:

c-DCE: cis-DICHLOROETHENE
E: ETHYLBENZENE
IPBz: ISOPROPYLBENZENE
n-BuBz: n-BUTYLBENZENE
n-PBz: n-PROPYLBENZENE
Napht: NAPHTHALENE
PCE: TETRACHLOROETHENE
p-IPT: p-ISOPROPYLTOLUENE
s-BuBz: sec-BUTYLBENZENE
T: TOLUENE
TCE: TRICHLOROETHENE
t-DCE: trans-DICHLOROETHENE
TMB: TRIMETHYLBENZENE
VC: VINYL CHLORIDE
X: XYLENE (TOTAL)

NOTES:

1.) EXISTING FEATURES ARE APPROXIMATE BASED ON FIELD OBSERVATIONS AND AERIAL PHOTOGRAPHY.

2.) FORMER FEATURES ARE APPROXIMATE BASED ON A HISTORIC MAP.

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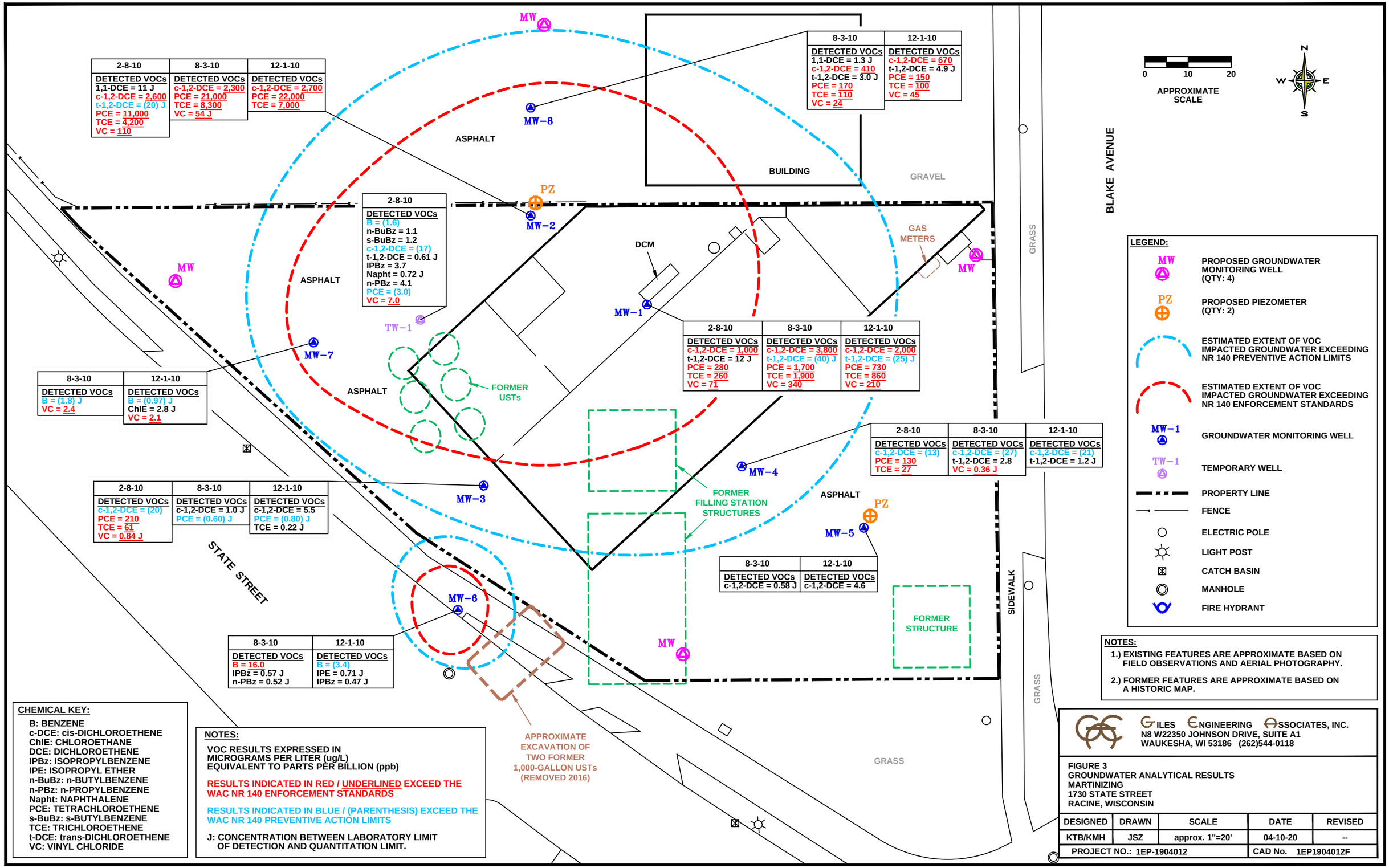
FIGURE 2
SOIL ANALYTICAL RESULTS
MARTINIZING
1730 STATE STREET
RACINE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/KMH	JSZ	approx. 1"=20'	07-01-20	--
PROJECT NO.: 1EP-1904012			CAD No. 1EP1904012G	



2-8-10	8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs	DETECTED VOCs
1,1-DCE = 11 J	c-1,2-DCE = 2,300	c-1,2-DCE = 2,700
c-1,2-DCE = 2,600	PCE = 21,000	PCE = 22,000
t-1,2-DCE = (20) J	TCE = 8,300	TCE = 7,000
PCE = 11,000	VC = 54 J	
TCE = 4,200		
VC = 110		

8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs
1,1-DCE = 1.3 J	c-1,2-DCE = 670
c-1,2-DCE = 410	t-1,2-DCE = 4.9 J
t-1,2-DCE = 3.0 J	PCE = 150
PCE = 170	TCE = 100
TCE = 110	VC = 45
VC = 24	

2-8-10
DETECTED VOCs
B = (1.6)
n-BuBz = 1.1
s-BuBz = 1.2
c-1,2-DCE = (17)
t-1,2-DCE = 0.61 J
IPBz = 3.7
Napht = 0.72 J
n-PBz = 4.1
PCE = (3.0)
VC = 7.0

2-8-10	8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs	DETECTED VOCs
c-1,2-DCE = 1,000	c-1,2-DCE = 3,800	c-1,2-DCE = 2,000
t-1,2-DCE = 12 J	t-1,2-DCE = (40) J	t-1,2-DCE = (25) J
PCE = 280	PCE = 1,700	PCE = 730
TCE = 260	TCE = 1,900	TCE = 860
VC = 71	VC = 340	VC = 210

8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs
B = (1.8) J	B = (0.97) J
VC = 2.4	ChlE = 2.8 J
	VC = 2.1

2-8-10	8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs	DETECTED VOCs
c-1,2-DCE = (13)	c-1,2-DCE = (27)	c-1,2-DCE = (21)
PCE = 130	t-1,2-DCE = 2.8	t-1,2-DCE = 1.2 J
TCE = 27	VC = 0.36 J	

2-8-10	8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs	DETECTED VOCs
c-1,2-DCE = (20)	c-1,2-DCE = 1.0 J	c-1,2-DCE = 5.5
PCE = 210	PCE = (0.60) J	PCE = (0.80) J
TCE = 61		TCE = 0.22 J
VC = 0.84 J		

8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs
c-1,2-DCE = 0.58 J	c-1,2-DCE = 4.6

8-3-10	12-1-10
DETECTED VOCs	DETECTED VOCs
B = 16.0	B = (3.4)
IPBz = 0.57 J	IPE = 0.71 J
n-PBz = 0.52 J	IPBz = 0.47 J

LEGEND:

- MW — PROPOSED GROUNDWATER MONITORING WELL (QTY: 4)
- PZ — PROPOSED PIEZOMETER (QTY: 2)
- ESTIMATED EXTENT OF VOC IMPACTED GROUNDWATER EXCEEDING NR 140 PREVENTIVE ACTION LIMITS
- ESTIMATED EXTENT OF VOC IMPACTED GROUNDWATER EXCEEDING NR 140 ENFORCEMENT STANDARDS
- MW-1 — GROUNDWATER MONITORING WELL
- TW-1 — TEMPORARY WELL
- PROPERTY LINE
- FENCE
- ELECTRIC POLE
- LIGHT POST
- CATCH BASIN
- MANHOLE
- FIRE HYDRANT

NOTES:

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2.) FORMER FEATURES ARE APPROXIMATE BASED ON A HISTORIC MAP.

CHEMICAL KEY:

B: BENZENE
c-DCE: cis-DICHLOROETHENE
ChlE: CHLOROETHANE
DCE: DICHLOROETHENE
IPBz: ISOPROPYLBENZENE
IPE: ISOPROPYL ETHER
n-BuBz: n-BUTYLBENZENE
n-PBz: n-PROPYLBENZENE
Napht: NAPHTHALENE
PCE: TETRACHLOROETHENE
s-BuBz: s-BUTYLBENZENE
TCE: TRICHLOROETHENE
t-DCE: trans-DICHLOROETHENE
VC: VINYL CHLORIDE

NOTES:

VOC RESULTS EXPRESSED IN MICROGRAMS PER LITER (ug/L) EQUIVALENT TO PARTS PER BILLION (ppb)

RESULTS INDICATED IN RED / UNDERLINED EXCEED THE WAC NR 140 ENFORCEMENT STANDARDS

RESULTS INDICATED IN BLUE / (PARENTHESIS) EXCEED THE WAC NR 140 PREVENTIVE ACTION LIMITS

J: CONCENTRATION BETWEEN LABORATORY LIMIT OF DETECTION AND QUANTITATION LIMIT.

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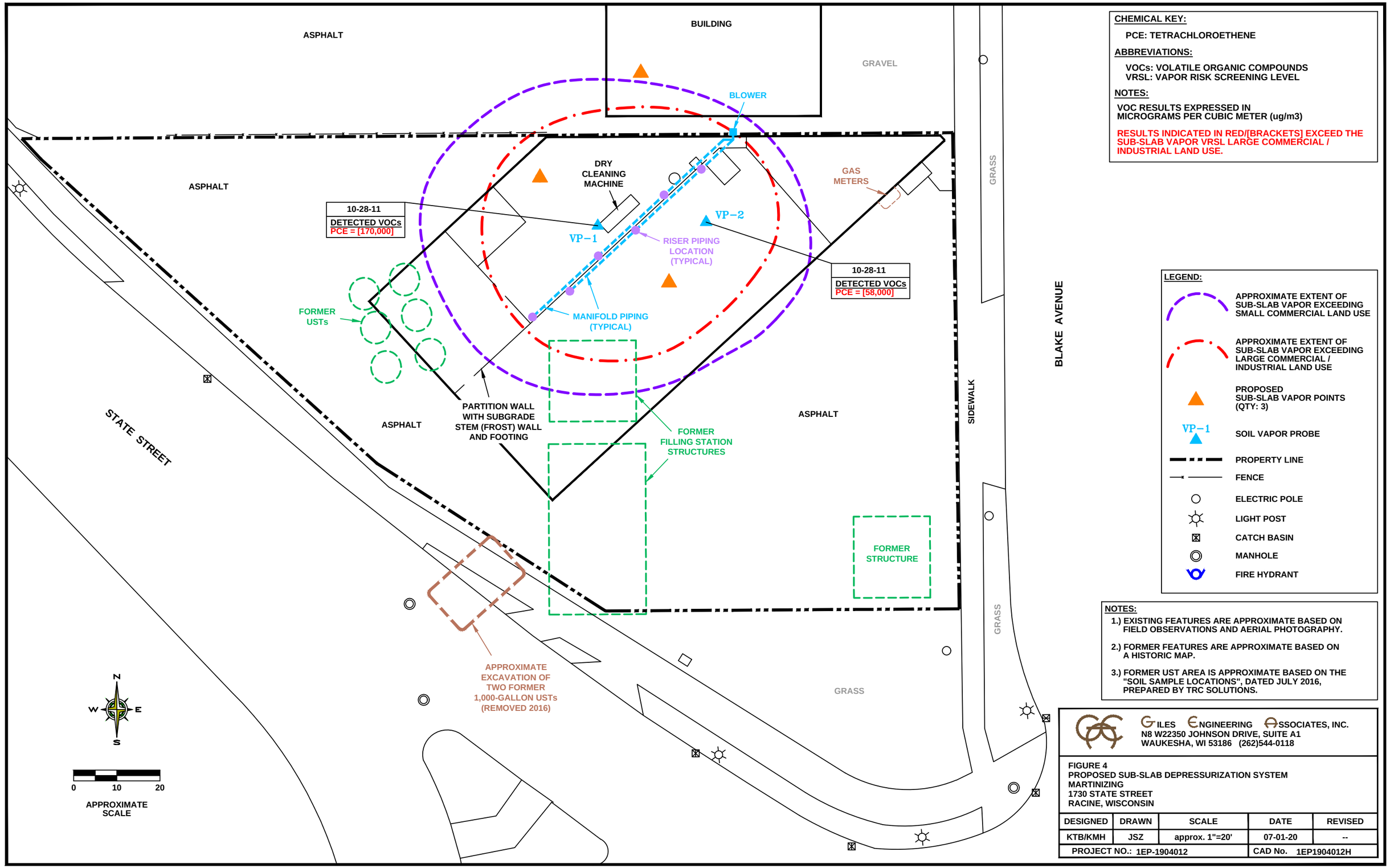
WAUKESHA, WI 53186 (262)544-0118

FIGURE 3
GROUNDWATER ANALYTICAL RESULTS
MARTINIZING
1730 STATE STREET
RACINE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/KMH	JSZ	approx. 1"=20'	04-10-20	--
PROJECT NO.: 1EP-1904012			CAD No. 1EP1904012F	



CHEMICAL KEY:

PCE: TETRACHLOROETHENE

ABBREVIATIONS:

VOCs: VOLATILE ORGANIC COMPOUNDS
VRSL: VAPOR RISK SCREENING LEVEL

NOTES:

VOC RESULTS EXPRESSED IN MICROGRAMS PER CUBIC METER (ug/m3)

RESULTS INDICATED IN RED/[BRACKETS] EXCEED THE SUB-SLAB VAPOR VRSL LARGE COMMERCIAL / INDUSTRIAL LAND USE.

LEGEND:

- APPROXIMATE EXTENT OF SUB-SLAB VAPOR EXCEEDING SMALL COMMERCIAL LAND USE
- APPROXIMATE EXTENT OF SUB-SLAB VAPOR EXCEEDING LARGE COMMERCIAL / INDUSTRIAL LAND USE
- PROPOSED SUB-SLAB VAPOR POINTS (QTY: 3)
- VP−1 SOIL VAPOR PROBE
- PROPERTY LINE
- FENCE
- ELECTRIC POLE
- LIGHT POST
- CATCH BASIN
- MANHOLE
- FIRE HYDRANT

NOTES:

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2.) FORMER FEATURES ARE APPROXIMATE BASED ON A HISTORIC MAP.

3.) FORMER UST AREA IS APPROXIMATE BASED ON THE "SOIL SAMPLE LOCATIONS", DATED JULY 2016, PREPARED BY TRC SOLUTIONS.

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FIGURE 4
PROPOSED SUB-SLAB DEPRESSURIZATION SYSTEM
MARTINIZING
1730 STATE STREET
RACINE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
KTB/KMH	JSZ	approx. 1"=20'	07-01-20	--
PROJECT NO.: 1EP-1904012			CAD No. 1EP1904012H	

TABLE 1
SOIL ANALYTICAL RESULTS

Martinizing Racine
1730 State Street
Racine, Wisconsin
1E-0909013

Analyte	Sample Location												NR 720 RCLs[1] (µg/kg)			WDNR Landfill Disposal Contained-Out Values[3]
	TW-1	MW-1		MW-2		MW-3	MW-4		MW-5	MW-6	MW-7	MW-8	Soil to Groundwater Pathway	Direct Contact[2]		
														Non-Industrial Land Use	Industrial Land Use	
Sample Depth (feet)	6 - 8	0 - 2	10 - 12	0 - 2	6 - 8	2 - 4	2 - 4	10 - 12	2 - 4	2 - 4	2 - 4	2 - 3				
Sample Date	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	1/21/10	7/23/10	7/23/10	7/23/10	7/23/10				
PID	14	11	12	420	42	BDL	BDL	BDL	BDL	16	7	BDL				
Detected VOCs (µg/kg)																
n-Butylbenzene	<29	<28	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34	NS	108,000	108,000	NS
sec-Butylbenzene	130	29	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34	NS	145,000	145,000	NS
cis-1,2-Dichloroethene	<29	7,300	1,900	19,000	<300	<27	<31	34	<31	<31	<31	<34	41.2	156,000	2,340,000	NS
trans-1,2-Dichloroethene	<29	45	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34	62.6	1,560,000	1,850,000	NS
Ethylbenzene	<29	41	<58	<14,000	<300	<27	<31	<29	1.0 J	5.5	<31	<34	1,570	8,020	35,400	NS
Isopropylbenzene	110	12 J	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34	NS	268,000	268,000	NS
p-Isopropyltoluene	<29	61	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34	NS	162,000	162,000	NS
Naphthalene	<58	340	<120	<28,000	<610	230	<63	<57	<62	<61	<62	80	658.2	5,520	24,100	NS
n-Propylbenzene	62	41	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34	NS	264,000	264,000	NS
Tetrachloroethene	41	570	10,000	{5,200,000}	59,000	33	73	82	<31	<31	530	<34	4.5	33,000	145,000	153,000
Toluene	<29	32	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34	1,107	818,000	818,000	NS
Trichloroethene	<29	83	2,700	{420,000}	2,200	<27	<31	<29	<31	0.22 J	44	<34	3.6	1,300	8,410	8,800
1,2,4-Trimethylbenzene	<29	320	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	55	1,379[4]	219,000	219,000	NS
1,3,5-Trimethylbenzene	<29	110	<58	<14,000	<300	<27	<31	<29	<31	<31	<31	<34		182,000	182,000	NS
Vinyl chloride	<41	(210)	<82	<20,000	<420	<38	<44	<40	<44	<43	<43	<47	0.1	67	2,080	2,000
total Xylenes	<99	220	<200	<47,000	<1,000	<93	<110	<98	<110	<100	<110	<110	3,960	260,000	260,000	NS

NOTES:

[1]Wisconsin Administrative Code Natural Resources Chapter (NR) 720 Residual Contaminant Levels were obtained from the Wisconsin Department of Natural Resources (WDNR) spreadsheet, last updated December 2018

[2]Direct Contact RCLs only apply to soil samples collected within four feet of the ground surface

[3]WDNR Landfill Disposal "Contained-Out" Values obtained from the fact sheet titled "Contained-Out Values for PCE, TCE, and Vinyl Chloride" (RR-969) effective as of November of 2013

[4]Soil to Groundwater Pathway RCLs for 1,2,4- and 1,3,5-Trimethylbenzene are combined

PID: Photoionization Detector

BDL: Below Detection Limit

VOCs: Volatile organic compounds

µg/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)

J: Result is below the method quantitation limit (MQL)

NS: No Standard Established

<xx.x: Result detected below the method detection limit of x

xx.x: Underlined results exceed the NR 720 RCL for the Soil to Groundwater Pathway

(xx.x): Parenthesized results exceed the NR 720 RCL for Non-Industrial Direct Contact

[xx.x]: Bracketed results exceed the NR 720 RCL for Industrial and Non-Industrial Direct Contact

{xx.x}: Braced results exceed the WDNR Landfill Disposal Conained-Out Value

TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
Martinizing Racine
1730 State Street
Racine, Wisconsin
1E-0909013

Analyte	Sample Location														NR 720 RCLs[1] (µg/kg)			WDNR Landfill Disposal Contained-Out Values[3]
	GP-1			GP-2		GP-3		GP-4		GP-5		GP-6	GP-7	GP-8				
Sample Depth (feet)	4 - 6	8 - 10	12 - 14	4 - 6	8 - 10	2 - 4	6 - 8	4 - 6	6 - 8	4 - 6	6 - 8	4 - 6	6 - 8	2-4	Soil to Groundwater Pathway	Direct Contact[2]		
Sample Date	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	6/23/10	10/28/10		Non-Industrial Land Use	Industrial Land Use	
PID	86	188	152	498	228	BDL	BDL	246	28	13	9	71	50	50				
Detected VOCs (µg/kg)																		
n-Butylbenzene	<290	<2,900	<290	<580	<1,400	<31	<29	780	<29	<31	<29	<28	290	<30	NS	108,000	108,000	NS
sec-Butylbenzene	<290	<2,900	<290	<580	<1,400	<31	<29	860	43	<31	<29	<28	170	<30	NS	145,000	145,000	NS
cis-1,2-Dichloroethene	<290	<2,900	770	5,500	2,300	<31	<29	<31	58	220	220	<28	<31	45 J	41.2	156,000	2,340,000	NS
trans-1,2-Dichloroethene	<290	<2,900	<290	<580	<1,400	<31	<29	<31	<29	<31	<29	<28	<31	<30	62.6	1,560,000	1,850,000	NS
Ethylbenzene	<290	<2,900	<290	<580	<1,400	<31	<29	<31	<29	<31	<29	<28	<31	<30	1,570	8,020	35,400	NS
Isopropylbenzene	<290	<2,900	<290	<580	<1,400	<31	<29	94	<29	<31	<29	<28	290	<30	NS	268,000	268,000	NS
p-Isopropyltoluene	<290	<2,900	<290	<580	<1,400	<31	<29	<31	<29	<31	<29	<28	<31	<30	NS	162,000	162,000	NS
Naphthalene	<590	<2,900	<570	<1200	<2,900	<62	<58	<61	<58	<63	<58	<57	140	<30	658.2	5,520	24,100	NS
n-Propylbenzene	<290	<2,900	<290	<580	<1,400	<31	<29	45	<29	<31	<29	<28	390	<30	NS	264,000	264,000	NS
Tetrachloroethene	62,000	{510,000}	47,000	97,000	{250,000}	<31	<29	32	<29	78	<29	150	<31	4,100	4.5	33,000	145,000	153,000
Toluene	<290	<2900	<290	<580	<1400	<31	<29	<31	<29	<31	<29	<28	<31	<30	1,107	818,000	818,000	NS
Trichloroethene	1,200	9,300	380	5,300	5,500	<31	<29	<31	<29	41	<29	<28	<31	<30	3.6	1,300	8,410	8,800
1,2,4-Trimethylbenzene	<290	<2,900	<290	<580	<1,400	<31	<29	<31	<29	<31	<29	<28	<31	<30	1,379[4]	219,000	219,000	NS
1,3,5-Trimethylbenzene	<290	<2,900	<290	<580	<1,400	<31	<29	<31	<29	<31	<29	<28	<31	<30		182,000	182,000	NS
Vinyl chloride	<410	<4,100	<400	<810	<2,000	<43	<41	<43	41	<44	<40	<40	<43	<30	0.1	67	2,080	2,000
total Xylenes	<1,000	<9,900	<980	<2,000	<4,900	<110	<99	<100	<99	<110	<98	<97	<100	<89	3,960	260,000	260,000	NS

NOTES:
[1]Wisconsin Administrative Code Natural Resources Chapter (NR) 720 Residual Contaminant Levels were obtained from the Wisconsin Department of Natural Resources (WDNR) spreadsheet, last updated December 2018
[2]Direct Contact RCLs only apply to soil samples collected within four feet of the ground surface
[3]WDNR Landfill Disposal "Contained-Out" Values obtained from the fact sheet titled "Contained-Out Values for PCE, TCE, and Vinyl Chloride" (RR-969) effective as of November of 2013
[4]Soil to Groundwater Pathway RCLs for 1,2,4- and 1,3,5-Trimethylbenzene are combined
PID: Photoionization Detector
BDL: Below Detection Limit
VOCs: Volatile organic compounds
µg/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)
J: Result is below the method quantitation limit (MQL)
NS: No Standard Established
<xx.x: Result detected below the method detection limit of x
xx.x: Underlined results exceed the NR 720 RCL for the Soil to Groundwater Pathway
(xx.x): Parenthesized results exceed the NR 720 RCL for Non-Industrial Direct Contact
[xx.x]: Bracketed results exceed the NR 720 RCL for Industrial and Non-Industrial Direct Contact
{xx.x}: Braced results exceed the WDNR Landfill Disposal Conained-Out Value

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
Martinizing Racine
1730 State Street
Racine, Wisconsin
Project No. 1E-0909013

Analyte	Sample Location									NR 140[1] (µg/L)	
	MW-1			MW-2			MW-3			PAL	ES
Sample Date	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10	02/08/10	08/03/10	12/01/10		
Detected VOCs (µg/L)											
Benzene	<3.2	<8.0	<10	<2.0	<40	<50	<0.40	<0.20	<0.20	**0.5**	**5**
n-Butylbenzene	<3.2	<8.0	<10	<2.0	<40	<50	<0.40	<0.20	<0.20	**NS**	**NS**
sec-Butylbenzene	<4.0	<10	<13	<2.5	<50	<63	<0.50	<0.25	<0.25	**NS**	**NS**
chloroethane	<16	<40	<50	<10	<200	<250	<2.0	<1.0	<1.0	**80**	**400**
1,1-Dichloroethene	<8.0	<20	<25	**11 J**	<100	<130	<1.0	<0.50	<0.50	**0.7**	**7**
cis-1,2-Dichloroethene	**1,000**	**3,800**	**2,000**	**2,600**	**2,300**	**2,700**	*(20)*	1.0 J	5.5	**7**	**70**
trans-1,2-Dichloroethene	12 J	*(40 J)*	*(25 J)*	*(20 J)*	<100	<130	<1.0	<0.50	<0.50	**20**	**100**
isopropyl ether	<8.0	<20	<25	<5.0	<100	<130	<1.0	<0.50	<0.50	**NS**	**NS**
Isopropylbenzene	<3.2	<8.0	<10	<2.0	<40	<50	<0.40	<0.20	<0.20	**NS**	**NS**
Naphthalene	<4.0	<10	<13	<2.5	<50	<63	<0.50	<0.25	<0.25	**10**	**100**
n-Propylbenzene	<8.0	<20	<25	<5.0	<100	<130	<1.0	<0.50	<0.50	**NS**	**NS**
Tetrachloroethene	**280**	**1,700**	**730**	**11,000**	**21,000**	**22,000**	**210**	*(0.60 J)*	*(0.80 J)*	**0.5**	**5**
Trichloroethene	**260**	**1,900**	**860**	**4,200**	**8,300**	**7,000**	**61**	<0.20	0.22 J	**0.5**	**5**
Vinyl chloride	**71**	**340**	**210**	**110**	**54 J**	<50 J	**0.84 J**	<0.20	<0.20	**0.02**	**0.2**

NOTES:
[1]Wisconsin Administrative Code Natural Resources Chapter (NR) 140
PAL: Preventive Action Limit
ES: Enforcement Standard
VOCs: Volatile Organic Compounds
µg/L: Micrograms per Liter; equivalent to parts per billion (ppb)
J: Result is less than the reporting limit but greater than the method detection limit and the concentration is an approximate value
NS: No Standard Established
<xx.x: Result concentration was detected below the method detection limit of x
(xx.x) : Result exceeds the NR 140 Preventive Action Limit
xx.x: Result exceeds the NR 140 Enforcement Standard

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL RESULTS
Martinizing Racine
1730 State Street
Racine, Wisconsin
Project No. 1E-0909013

Analyte	Sample Location												NR 140[1] (µg/L)	
	MW-4			MW-5		MW-6		MW-7		MW-8		TW-1	PAL	ES
Sample Date	02/08/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	08/03/10	12/01/10	02/08/10		
Detected VOCs (µg/L)														
Benzene	<1.0	<0.20	<0.20	<0.20	<0.20	**16.0**	*(3.4)*	*(1.8 J)*	*(0.97 J)*	<0.40	<1.0	*(1.6)*	**0.5**	**5**
n-Butylbenzene	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<1.0	1.1	**NS**	**NS**
sec-Butylbenzene	<1.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50	<1.3	1.2	**NS**	**NS**
chloroethane	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8 J	<2.0	<5.0	<1.0	**80**	**400**
1,1-Dichloroethene	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	*(1.3 J)*	<2.5	<0.5	**0.7**	**7**
cis-1,2-Dichloroethene	*(13)*	*(27)*	*(21)*	0.58 J	4.6	<0.50	<0.50	<0.50	<0.50	**410**	**670**	*(17)*	**7**	**70**
trans-1,2-Dichloroethene	<2.5	2.8	1.2 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.0 J	4.9 J	0.61 J	**20**	**100**
isopropyl ether	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	0.71 J	<0.50	<0.50	<1.0	<2.5	<0.50	**NS**	**NS**
Isopropylbenzene	<1.0	<0.20	<0.20	<0.20	<0.20	0.57 J	0.47 J	<0.20	<0.20	<0.40	<1.0	3.7	**NS**	**NS**
Naphthalene	<1.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50	<1.3	0.72 J	**10**	**100**
n-Propylbenzene	<2.5	<0.50	<0.50	<0.50	<0.50	0.52 J	<0.50	<0.50	<0.50	<1.0	<2.5	4.1	**NS**	**NS**
Tetrachloroethene	**130**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**170**	**150**	*(3.0)*	**0.5**	**5**
Trichloroethene	**27**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**110**	**100**	<0.2	**0.5**	**5**
Vinyl chloride	<1.0	**0.36 J**	<0.20	<0.20	<0.20	<0.20	<0.20	**2.4**	**2.1**	**24**	**45**	**7.0**	**0.02**	**0.2**

NOTES:
[1]Wisconsin Administrative Code Natural Resources Chapter (NR) 140
PAL: Preventive Action Limit
ES: Enforcement Standard
VOCs: Volatile Organic Compounds
µg/L: Micrograms per Liter; equivalent to parts per billion (ppb)
J: Result is less than the reporting limit but greater than the method detection limit and the concentration is an approximate value
NS: No Standard Established
<xx.x: Result concentration was detected below the method detection limit of x
(xx.x) : Result exceeds the NR 140 Preventive Action Limit
xx.x: Result exceeds the NR 140 Enforcement Standard

TABLE 3
SOIL GAS ANALYTICAL RESULTS

Martinizing Racine
1730 State Street
Racine, Wisconsin
Project No. 1E-0909013

Analyte	Sample Location		Sub-Slab Vapor VRSL* ($\mu g/m^3$)		
	VP-1	VP-2	Land Use		
Sample Date	10/28/2011	10/28/2011	**Residential**	**Small Commercial**	**Large Commercial / Industrial**
Sample Depth (feet below grade)	Sub-Slab	Sub-Slab			
Detected VOCs ($\mu g/m^3$)					
Tetrachloroethene	**[170,000]**	**[58,000]**	**1,400**	**6,000**	**18,000**

Notes:
VRSL: Vapor Risk Screening Level
VOCs: Volatile Organic Compounds
$\mu g/m^3$: Micrograms per cubic meter
J: Concentration reported between the laboratory method detection limit and the reporting limit.
xx.x: Result exceeds the sub-slab VRSL for Residential, Small Commercial, and Large Commercial/Industrial land uses

*VRSLs are calculated from the indoor air Vapor Action Level (VAL). VALs are calculated from the United States Environmental Protection Agency (USEPA) Vapor Intrusion Screening Levels (VISLs) calculator spreadsheet. The VALs are based on a Target Risk for Carcinogens of 1×10^{-5} and a Target Hazard Quotient for Non-Carcinogens of 1. An attenuation factor is applied to the indoor air VAL to calculate the sub-slab VRSL. For Residential and Small Commercial land use, an attenuation factor of 0.03 is applied. For Large Commercial or Industrial land use, an attenuation factor of 0.01 is applied.

TABLE 4
PROPOSED COST ESTIMATE

SITE INVESTIGATION CHANGE ORDER NO. 3- STATE STREET MARTINIZING RACINE, WI
RACINE, WISCONSIN

Phase No.	Description	CONSULTANT FEES			SUBCONTRACTOR FEES	Budget
		Labor	Expenses	Equipment		
TASK 01:	SAMPLING PLAN PREPARATION	$880	$0	$0	$0	$880
TASK 02:	SHSP PREPARATION & UTILITY LOCATE	$130	$0	$0	$350	$480
TASK 03:	WELL RE-DEVELOP, SURVEY, & GAUGING	$1,240	$60	$260	$0	$1,560
TASK 04:	GW SAMPLING (INITIAL EVENT)	$1,065	$60	$215	$540	$1,880
TASK 05:	ON-SITE/OFF-SITE SUB-SLAB VAPOR TESTING	$620	$60	$340	$885	$1,905
TASK 06:	SUB-SLAB DEPRESSURIZATION SYSTEM INSTALL	$1,240	$60	$0	$5,000	$6,300
TASK 07:	ADDITIONALL BORINGS/WELLS INSTALL, DEVEL. SU	$1,010	$60	$240	$4,820	$6,130
TASK 08:	INTERIOR SOIL BORINGS	$130	$0	$0	$440	$570
TASK 09:	GW SAMPLING (3 QUARTERLY EVENTS)	$4,200	$360	$960	$3,585	$9,105
TASK 10:	SI REPORT PREPARATION	$4,060	$0	$0	$0	$4,060
Fee Estimate		$14,575	$660	$2,015	$15,620	**$32,870**

TABLE 4
PROPOSED COST ESTIMATE

SITE INVESTIGATION CHANGE ORDER NO. 3- STATE STREET MARTINIZING RACINE, WI
RACINE, WISCONSIN

SUBCONTRACTOR FEES DETAIL			SUBCONTRACTOR FEES	Budget
TASK 01:	**SAMPLING PLAN PREPARATION**		**$0**	**$0**
TASK 02:	**SHSP PREPARATION & UTILITY LOCATE**		**$350**	**$350**
TASK 03:	**WELL RE-DEVELOP, SURVEY, & GAUGING**		**$0**	**$0**
TASK 04:	**GW SAMPLING (INITIAL EVENT)**		**$540**	**$540**
	Laboratory Subcontractor Costs		$540	
TASK 05:	**ON-SITE/OFF-SITE SUB-SLAB VAPOR TESTING**		**$885**	**$885**
	Laboratory Subcontractor Costs		$885	
TASK 06:	**SUB-SLAB DEPRESSURIZATION SYSTEM INSTALL**		**$5,000**	**$5,000**
	American Radon		$5,000	
TASK 07:	**ADDITIONALL BORINGS/WELLS INSTALL, DEVEL. SURVEY- IF NEEDED**		**$4,820**	**$4,820**
	Laboratory Subcontractor Costs		$810	
	Direct-push Subcontractor Costs		$3,855	
TASK 08:	**INTERIOR SOIL BORINGS**		**$440**	**$440**
	Laboratory Subcontractor Costs		$270	
	Purge/ Dev. Water Soil Waste Disposal Subcontractor Costs		$0	
TASK 09:	**GW SAMPLING (3 QUARTERLY EVENTS)**		**$3,585**	**$3,585**
	Laboratory Subcontractor Costs		$2,835	
	Purge/ Dev. Water Soil Waste Disposal Subcontractor Costs		$750	
TASK 10:	**SI REPORT PREPARATION**		**$0**	**$0**
		TOTALS:		**$15,620**

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

DERF Site Investigation Bid Summary
Consultant Selection Cover Sheet

Notice: Use this form to notify the Department of Natural Resources of the consultant you are selecting to conduct a site investigation and to submit and summarize the bids required in the Dry Cleaner Environmental Response Fund (DERF) Program. This form is authorized under s. 292.65, Wis. Stats. and s. NR 169.23, Wis. Adm. Code. Completion of this form is mandatory for any person applying for DERF reimbursement. Persons who do not submit a completed form will not be eligible for reimbursement under DERF. Personal information will be used to manage the DERF program, and be made available to requesters under Wisconsin's Open Records laws (ss. 19.32-19.39, Wis. Stats.) and requirements.

Complete the following information and submit it to your DNR regional project manager. Copy this form as necessary.

Site Information

Site name:	Facility Name:	BRRTS #
Martinizing Cleaners Site Investigation	**1730 State Street, Racine WI**	**02-52-549890**

Consultant Selected

Consultant Name:	Consultant Address:
Giles Engineering Associates, Inc.	**N8W22350 Johnson Drive Suite A 1 Waukesha, WI 53186**

Summary of Costs:

Consultant Name: Giles Engineering Associates, Inc.		
Consulting costs:	$	14,575
Drilling costs:	$	4,025
Analytical costs:	$	5,340
Miscellaneous costs:	$	8,930
Total Costs:	$	32,870

Consultant Name:	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
Total Costs:	

Consultant Name:	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
Total Costs:	

Optional 4th bid information:	
Consultant Name:	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
Total Costs:	

Justification for Selection:

Martinizing Cleaners has Selected Giles Engineering to perform the requested services of the RFP because their proposal provides a thorough and complete approach to accomplish the requested work.

Applicant Information and Certification

I certify that the information contained above is true and correct to the best of my knowledge.

Applicant Name		Date	
Laurie I. Berry			
Street Address	**City**	**State**	**Zip Code**
3319 Nobb Hill Drive	Racine	WI	53406

Signature

Department Use Only

Project Manager Approval Signature	Phone Number	Date

If not approved, reason for non-approval:

Consultant Name: Giles Eng
Site Name: Martinizing Cleaners; State Street Racine, WI
BRRTS #:02-52-549890
Date:6/11/13

DERF Site Investigation Bid Sheet
Consultant Bid Summary

Site Information		
Site Name Martinizing Cleaners State Street, Racine WI		
Consultant Name: Giles Engineering Associates, Inc.		Applicant Name: Kevin T. Bugel, P.G., C.P.G.
Bid Summary		
Drilling Costs Total =	**$ 4,025**	
Analytical Costs Total =	**$ 5,340**	
Consulting Costs Total =	**$ 14,575**	
Misc Costs Total =	**$ 8,930**	
Grand Total =	**$ 32,870**	

I certify that the costs are an accurate estimate of my total projected costs for the site investigation and I understand and will adhere to s.292.65 Stats. and ch NR 169, Wis. Adm. Code.

Consultant Signature	Date
	07/08/2013

Please attach to these forms a written narratige specifying how the tasks outlined in these sheets will be performed.

DERF Site Investigation Bid Sheet
Drilling Costs

Drilling Costs						
Task	Interval	Number of Borings or Wells	Number of Days	Total Number Feet Drilled	Cost/feet, Day or Well	Total Cost
Direct Push/Hand Auger Borings (per point)						
Hand Probe/Auger	< 10 ft depth	2				$170
NR 141 Variance Well Piezometer	<10 ft depth	6				$2,475
Decontamination Costs						$150
Mobilization Costs						$275
Other						
Drums	1					$55
Flush Mount Covers		6			150	$900
Total Drilling Costs			1			$4,025

Consultant Name: Giles Eng
Site Name:Martinizing Cleaners; State Street Racine, WI
BRRTS #:02-52-549890
Date:6/11/13

DERF Site Investigation Bid Sheet
Analytical Costs

Parameter	WI Certified Lab			Field Test/Field Kit			Mobile Lab			
	$/ sample	# samples	Method Used	$/ sample	# samples	Method Used	$/Sample $/Day	# Samples # Days	Method Used	Total Costs
Solids Analysis										
VOCs (6 new wells/pz)	$67.50	12	8260							$810.00
VOC (interior soil borings)	$67.50	4	8260							$270.00
Water Analysis (low flow sampling assumed unless otherwise indicated at bottom of this sheet)										
VOCs (existing 8 wells)	$67.50	32	8260							$2,160.00
VOCs (6 new wells/pz)	$67.50	18	8260							$1,215.00
Air Analysis										
VOCs	$295	3	TO-15							$885.00
Total Analytical Costs										$5,340.00

* Natural Attenuation parameters required for consideration of NA as remedy.

Consultant Name: Giles Eng
Site Name:Martinizing Cleaners; State Street, Racine, WI
BRRTS #:02-52-549890
Date:6/11/13

DERF Site Investigation Bid Sheet
Miscellaneoous Costs

Major Activity	Specifications	Commodity Unit (specify)	Unit Rate	Number of Units	Total Cost
IDW Disposal					
Soil Disposal - Special Waste	Non-Hazardous	per drum	$80	1	$80
Soil Disposal - Assume Direct Subtile C	Hazardous	per drum			
Soil Drum Transportation		trip	$75	1	$75
Groundwater Disposal	Non-Hazardous	per drum	$125	4	$500
Groundwater Disposal	Hazardous	per drum			
Groundwater Transportation		trip	$250	1	$250
Field Supplies (list)					
Peristaltic Pump			$40	8	$320
Whale Pump & Tubing			$35	1	$35
Water Level Indicator			$20	9	$180
Water Quality Meter			$100	7	$700
Photoionization detector			$75	1	$75
Drums			$55	5	$275
Survey Equipment			$40	2	$80
Hammer Drill & Supplies			$50	1	$50
Vapor Pin assembly			$100	3	$300
Surveying					
					0
					0
Personal Protection Equipment (list)					
				850	0
					0
Sample Shipping Costs					
					0
					0
					0
Other (specify)					
`Sub-Slab Depressorization Sys			$5,000.00	1	$5,000
Private Utility locator			$350.00	1	$350
Mileage (Not Eligible)		100 Miles\rndtrip	$0.60	1100	$660
Total Miscellaneous Costs					$8,930

Reminders: DERF does not reimburse for attorney, closure or GIS fees. Mileage and meals are also non-reimbursable. Also, costs to prepare a reimbursement application and discuss the application with the department are not reimburseable. No expedited shipping w/o prior PM approval.

Consultant Name: Giles Eng
Site Name:Martinizing Cleaners, State Street; Racine, WI
BRRTS #:02-520549890
Date:6/11/13

DERF Site Investigation Bid Sheet
Consultantl Costs

		Hours/Task																		
Position (specify)	Hourly Rate	Workplan Development	SHSP Prep & Utility Locate	Receptor Survey	Waste Determination	Drilling Oversight	Soil Sampling	Drilling sampling	Well Development & Survey - Initial	Well Development & Survey - New wells (6)	Groundwater sampling - Initial (8 wells)	Groundwater sampling - 3 Quarterly (14 wells/pz)	Soil gas/vapor intrusion survey	Sub-Slab System Oversight	SSRCL calculations (contained out or remedial actions)	SI Report preparation	RAOR Report preparation	Project Management	Other: Data Reduction	Total Costs
Professional Staff																				
Sr. Project Manager	115	2						2	4		2	6	2	4		10				$3,680.00
Field Staff																				
Field Technician	65	10	2					12	12	2	12	54	6	12		40				$10,530.00
Office Support Staff																				
CAD Operator	55								1							4				$275.00
Clerical	45															2				$90.00
Total Consulting Costs																				$14,575.00