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January 17, 2022

Project Reference #18687

Mr. Lee Delcore Wisconsin Department of Natural Resources 1155 Pilgrim Road PO Box 408 Plymouth, WI 53073-0408

RE: Soil Sampling to Develop Institutional Controls and Continuing Obligations

Former Moss-American Facility, 8716 N. Granville Road, Milwaukee, Wisconsin FID # 241378280

Dear Mr. Delcore:

The Sigma Group, Inc. (Sigma) has prepared this report to document shallow soil sampling activities completed at the Former Moss-American Facility (hereinafter referred to as the "site", refer to **Figure 1**). The activities were performed to fill in any data-gaps to support the development of institutional controls (IC) and continuing obligations (CO) for the site following case closure. The sampling activities were performed as described in Sigma's proposal¹ submitted to the Wisconsin Department of Natural Resources (WDNR) on August 9, 2019, to implement the Scope of Work² provided by the WDNR in August 2019 (**Attachment A**).

DATA GAP IDENTIFICATION

Consistent with the Scope of Work provided by the WDNR, Sigma reviewed available historical reports discussing the investigation and remedial activities performed at the site in order to identify soil quality data-gaps, particularly in the near-surface direct contact zone. Based on the review, Sigma identified 30 locations where soil impacts were identified and remedial efforts were implemented to address the impacts, however, no post-remediation soil data could be located. These locations included six soil excavation areas (AREA T6 through AREA T11, **Figure 2**), impacted groundwater and free product areas, the former creosote processing area, and remediated soil placement areas (**Figure 2**). Due to the absence of shallow soil quality data from these locations, Sigma strategically positioned the soil borings to provide the maximum coverage within the data gap for collection of shallow soil samples for laboratory analysis.

Attached **Figure 3** presents the distribution of the proposed soil boring locations. Sigma submitted the proposed sampling locations to the WDNR project manager Mr. Lee R. Delcore for review and approval. Based on WDNR approval (email dated May 21, 2021) Sigma initiated the sampling activities on May 25, 2021.

SAMPLING ACTIVITIES

Soil sampling activities included the advancement of 30 shallow soil borings and the collection of one soil sample per boring at depths of 0 to 2 feet or 2 to 4 feet below ground surface (ft- bgs) for laboratory

¹ Proposal for Groundwater Sampling and Site Restoration, Former Moss-American Site, 8716 N. Granville Rd, Milwaukee, Wisconsin by Sigma (dated August 9, 2019).

² Scope of Work, Moss American Groundwater Sampling and Site Restoration, Milwaukee, Wisconsin, August 2019 by WDNR (dated August 2019).

analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs). Investigation methods are described in the following sections.

<u>Drilling Activities.</u> On May 25, 2021, 30 Geoprobe® soil borings (SCB-1 through SCB-30) were advanced at the locations shown in **Figure 3**. The soil borings were advanced to completion depths of approximately four ft-bgs with a track mounted Geoprobe® hydraulic drill rig. Soil samples were continuously collected at each Geoprobe® soil boring location from the ground surface to the boring termination depth with a 2.25-inch diameter by four-foot long Macro-Core® sampler.

Soil samples were described on the basis of grain size, color, stiffness or density, and other relevant characteristics, and classified in general accordance with the Unified Soil Classification System (USCS). Each of the soil samples collected from the soil borings were field screened through visual and olfactory observations and by a calibrated photoionization detector (PID) to semi-qualitatively assess the presence of volatile organic vapors. The soil boring / sampling equipment was decontaminated in the field by washing with a detergent solution and rinsing with deionized water prior to each new sampling location. The soil classifications, sampling intervals, and field screening results are presented on the soil boring logs included in **Attachment B**.

One soil sample per boring were containerized and submitted for laboratory analysis of BTEX and PAHs. Soil sample intervals selected for laboratory analysis were based on field screening results or other possible signs of impacts such as the presence of historic fill material. If no signs of impacts were noted, soil samples were collected from the two to four feet bgs depth interval (2-4). Soil samples selected for laboratory analysis were placed in laboratory supplied containers and preserved as necessary until analysis. Soil samples were submitted under a chain-of-custody (COC) document to Synergy Environmental Lab, Inc. (Synergy) in Appleton, Wisconsin (Wisconsin lab certification #445037560) for analysis of BTEX using laboratory Environmental Protection Agency (EPA) Method 8260B and PAHs using laboratory EPA Method M8270C.

Additionally, two soil duplicate samples and a methanol blank sample were submitted for quality assurance / quality control (QA/QC) purposes. The duplicate samples are collected as a means to measure laboratory precision. The methanol blank sample is analyzed to determine if any BTEX infiltrated the sample during transportation or field procedures.

Following advancement of the soil borings and completion of sampling, the soil borings were abandoned with hydrated bentonite chips to ground surface in accordance with ch. NR 141. The soil boring abandonment forms are included in **Attachment C**.

<u>Survey.</u> The locations and elevations of the soil borings were pre-determined prior to field procedures and were surveyed on May 24, 2021, with a Trimble® R8 GPS unit. Elevation data was referenced to a local United States Geological Survey (USGS) datum in feet above mean sea level (MSL).

<u>Investigative Waste Disposal.</u> A single drum of soil investigative waste generated during the investigation activities was staged on site until proper disposal is arranged by Veolia ES Technical Solutions LLC (Veolia). All other investigative waste was disposed of at Sigma as solid waste.

INVESTIGATION RESULTS

The following discussions of geology and soil quality are based on the results of the shallow soil sampling activities.

<u>Geology</u>. The shallow soil conditions encountered during the investigation were generally consistent with soil conditions encountered during the previous site investigation activities performed at the site. Generally, the shallow soils across the site consist of a layer of topsoil and / or gravelly clay ranging to depths of approximately zero to four feet bgs. Below the topsoil and/or gravelly clay, that were generally consistent across the site, soil types encountered within the 30 shallow soil borings ranged from black silty clay, peat, and/or well graded sand.

<u>Soil Quality Results.</u> A total of 30 soil samples were submitted for laboratory analysis of BTEX and PAHs. The analytical results are summarized in **Table 1** and **Figure 4**, and the soil laboratory analytical report is included in **Attachment D**. The soil results are compared to ch. NR 720 Residual Contaminant Levels (RCLs) for the groundwater pathway, non-industrial direct contact, and industrial direct contact.

BTEX - Select BTEX compounds were reported at concentrations above the laboratory limits of detection (LODs) within seven of the 30 soil borings. Benzene was reported at concentrations greater than its ch. NR 720 groundwater pathway RCL in soil borings SCB-3, SCB-5, SCB-10, and SCB-27; however, all but the SCB-27 concentration were estimated concentrations between the LOD and laboratory limits of quantitation (LOQs). It is important to note that all of the reported benzene concentrations are well below ch. NR 720 direct contact RCLs. No other BTEX ch. NR 720 RCL exceedances were reported. There is no apparent correlation between soil boring locations which contained BTEX ch. NR 720 RCL exceedances.

PAHs - Select PAH compounds were reported at concentrations above the LODs in 28 of the 30 soil borings. Select PAHs were reported at concentrations greater than their ch. NR 720 non-industrial direct contact RCLs within 14 of the 30 soil borings. The PAH compounds typically reported above ch. NR 720 direct contact RCLs include: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. A full list of PAH ch. NR 720 RCL exceedances is included in Table 1. It is noteworthy that naphthalene, considered to be a fingerprint parameter for creosote impacts at this site, was reported within only three soil borings at concentrations exceeding ch. NR 720 RCLs, while each of the other detections were well below direct contact RCLs. Soil borings containing PAH ch. NR 720 RCL exceedances are generally located across the site area evaluated. There is no apparent correlation between soil boring locations which contained PAH ch. NR 720 RCL exceedances.

SUMMARY

A total of 30 shallow soil borings were advanced at the site from which a total of 30 soil samples were submitted for laboratory analysis of BTEX and PAHs.

The laboratory analytical results of the shallow soil investigation across the site indicate that BTEX and PAH soil impacts are present within soil located within the direct contact depth interval. BTEX impacts within the shallow soil is limited to benzene at four locations at concentrations higher than the ch. NR 720 groundwater pathway RCL but below direct contact RCLs. The detected PAH soil impacts appear to be site wide with no specific definable trends relative to the areal extent investigated.

CONCLUSIONS

The degree and extent of PAH shallow soil impacts is generally site wide. Select PAHs at concentrations greater than ch. NR 720 direct contact RCLs were located within shallow soils across the area investigated. Due to the presence of the reported PAH concentrations within shallow soil greater than direct contact

standards, an engineered control such as surface cap with established institutional controls/continuing obligation will likely be necessary across the site to be protective of the direct contact pathway.

Sincerely,

THE SIGMA GROUP, INC.

Steven Kikkert, P.E. Staff Engineer

Mafizul Islam, P.E. Senior Project Manager

Attachments:

Table 1 – Soil Analytical Results

Figure 1 – Site Location Map

Figure 2 – Site Plan Map

Figure 3 – Borehole Location Map

Figure 4 – Soil Quality Map

Attachment A – Scope of Work

Attachment B – Soil Boring Logs

Attachment C – Borehole Abandonment Forms

Attachment D – Soil Laboratory Analytical Report

Table 1 Soil Analytical Results - Soil Cap Borings Moss American - 8716 N. Granville Road, Milwaukee, Wisconsin Sigma Project No. 18687

Soil Sample L	ocation:	SCB-1	SCB-2	SCB-3	SCB-4	SCB-5	SCI	B-6	SCB-7	SCB-8	SCB-9	SCB-10	SCB-11	SCB-12	SCB-13	SCB-14	SCB-15			
Sample Depth (fe	et bgs):	0 - 2	2 - 4	2 - 4	2 - 4	2 - 4	2 -	4	2 - 4	0 - 2	2 - 4	2 - 4	2 - 4	2 - 4	2 - 4	2 - 4	0-2			
Sample Collection	on Date:	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	DUP 2	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	Groundwater	Non-Industrial	Industrial
Depth to Groundwater (fe	et bgs):	>4	>4	>4	>4	>4	3.	0	1.5	>4	3.5	0.5	>4	>4	>4	3.0	3.0	Pathway		Direct Contact
Native Soil (N) or Fill / Rewo	rked	F	F	F	F	F	F	.	F	F	F	F	F	F	F	F	F	RCL ⁴	RCL ⁵	RCL ⁶
Unsaturated/Smear Zone (U) or Saturated (S):		U	U	U	U	U	U/	'S	S	U	U/S	S	U	U	U	U/S	U			
Photoionization Detector	ppm	1.5	0.2	0.4	0.4	1.0	9.	0	0.8	6.4	0.2	0.9	0.5	0.2	0.2	0.4	1.1	NS	NS	NS
VOCs																				
Benzene	mg/kg	<0.015	<0.015	0.0198 J	<0.015	0.042 J	<0.015	<0.015	<0.015	<0.015	<0.015	0.0203 J	<0.015	<0.015	<0.015	<0.015	<0.015	0.0051	1.6	7.07
Ethylbenzene	mg/kg	0.067	<0.019	<0.019	<0.019	<0.019	<0.019	0.40 J	<0.019	<0.019	<0.019	<0.019	<0.019	0.0235 J	<0.019	<0.019	<0.019	1.57	8.02	35.4
Toluene	mg/kg	0.057 J	<0.032	<0.032	<0.032	0.041 J	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.047 J	<0.032	<0.032	<0.032	1.1072	818	818
Xylenes (total)	mg/kg	0.267 J	<0.111	<0.111	<0.111	<0.111	<0.111	1.65 J	<0.111	<0.111	<0.111	<0.111	<0.111	0.043 J	<0.111	<0.111	<0.111	3.96	260	260
PAHs																				
Acenaphthene	mg/kg	0.058	0.042 J	0.17	<0.0132	0.186	0.39	NA	<0.0132	<0.0132	0.019 J	0.39	0.047 J	0.61	0.054	0.014 J	0.0174 J	NS	3,590	45,200
Acenaphthylene	mg/kg	0.033 J	<0.0092	<0.0092	<0.0092	<0.0184	0.0107 J	NA	<0.0092	<0.0092	0.036	<0.0184	0.224	4.70	0.0236 J	0.0209 J	0.123	NS	NS	NS
Anthracene	mg/kg	0.147	0.227	1.00	0.042	1.39	0.74	NA	0.0122 J	0.099	0.293	0.68	0.92	23.6	0.07	0.081	0.42	196.9492	17,900	100,000
Benzo(a)anthracene	mg/kg	0.09	[1.81]	[1.46]	0.056 J	[1.45]	0.201	NA	<0.0158	0.251	0.44	[1.96]	0.41	[5.00]	0.05 J	0.107	0.259	NS	1.14	20.8
Benzo(a)pyrene	mg/kg	0.049 J	[0.64]	[0.39]	0.0258 J	[0.313]	0.062	NA	<0.0142	[0.136]	[0.35]	[0.57]	[0.49]	{[8.50]}	0.04 J	0.106	[0.34]	0.47	0.115	2.11
Benzo(b)fluoranthene	mg/kg	0.095	[2.48]	[1.70]	0.066	[1.73]	0.112	NA	<0.0099	0.59	0.98	[2.12]	1.12	[19.1]	0.063	0.152	0.69	0.4781	1.15	21.1
Benzo(ghi)perylene	mg/kg	0.129	0.64	0.38	0.033 J	0.26	0.031 J	NA	<0.0118	0.37	0.74	0.42	0.93	18.1	0.057	0.109	0.60	NS	NS	NS
Benzo(k)fluoranthene	mg/kg	0.041	0.70	0.45	0.0246 J	0.41	0.038	NA	<0.0091	0.15	0.29	0.60	0.274	4.40	0.025 J	0.05	0.192	NS	11.5	211
Chrysene	mg/kg	0.099	3.06	2.61	0.081	2.69	0.23	NA	<0.0124	0.53	0.66	2.91	0.70	9.20	0.06	0.119	0.42	0.1442	115	2,110
Dibenzo(a,h)anthracene	mg/kg	<0.0142	[0.208]	[0.125]	<0.0142	0.088 J	<0.0142	NA	<0.0142	0.066	[0.151]	[0.124]	[0.133]	{[2.41]}	<0.0142	0.0164 J	0.086	NS	0.115	2.11
Fluoranthene	mg/kg	0.27	3.50	7.80	0.226	10.2	1.02	NA	0.0231 J	0.95	1.13	11.4	1.40	13.2	0.178	0.259	0.50	88.8778	2,390	30,100
Fluorene	mg/kg	0.044	0.0156 J	0.167	<0.0094	0.195	0.48	NA	<0.0094	<0.0094	0.042	0.165	0.068	0.50	0.055	0.0233 J	0.0287 J	14.8299	2,390	30,100
Indeno(1,2,3-cd)pyrene	mg/kg	0.058	0.54	0.34	0.0234 J	0.247	0.0211 J	NA	<0.0126	0.235	0.55	0.40	0.74	[13.4]	0.04 J	0.083	0.44	NS	1.15	21.1
1-Methylnaphthalene	mg/kg	0.0232 J	0.0237 J	0.099	0.0156 J	0.119	0.112	NA	<0.0101	0.0114 J	0.034 J	0.068 J	0.083	0.55	0.0203 J	<0.0101	0.0172 J	NS	17.6	72.7
2-Methylnaphthalene	mg/kg	0.0245 J	0.0296 J	0.105	0.0152 J	0.139	0.158	NA	<0.0138	0.015 J	0.04 J	0.085 J	0.093	0.72	0.0301 J	<0.0138	0.0212 J	NS	239	3,010
Naphthalene	mg/kg	0.0242 J	0.105	0.244	0.0211 J	0.58	0.60	NA	<0.0096	0.038	0.121	0.229	0.14	1.82	0.071	<0.0096	0.059	0.6582	5.52	24.1
Phenanthrene	mg/kg	0.187	1.22	6.60	0.174	10.1	1.80	NA	0.0089 J	0.42	0.78	4.10	0.84	7.40	0.251	0.153	0.255	NS	NS	NS
Pyrene	mg/kg	0.22	3.20	2.66	0.195	3.30	0.72	NA	0.017 J	0.39	0.62	4.90	1.11	12.3	0.143	0.213	0.50	54.5455	1,790	22,600

Notes:

- 1. Unsaturated/smear zone versus saturated soil conditions based on soil moisture conditions recorded on soil boring logs during drilling.
- 2. Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
- 3. NA = not analyzed NS = no standard established
- 4. Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated December 2018) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- 5. Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- 6. Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- 7. Laboratory flags:
- "J" = Analyte detected between Limit of Detection and Limit of Quantitation

= Analyte detected

- 8. Methanol blank results:
- 05/25/21: All VOCs reported below laboratory detection limits.
- 9. Exceedances:
- **BOLD** = Concentration exceeds Groundwater Pathway RCL
- [] = Concentration exceeds Non-Industrial Direct Contact RCL { } = Concentration exceeds Industrial Direct Contact RCL

Data entered / updated by: SVK 6/9/2021 Data checked by: ASL Date: 9/15/2021

Table 1 Soil Analytical Results - Soil Cap Borings Moss American - 8716 N. Granville Road, Milwaukee, Wisconsin Sigma Project No. 18687

Soil Sample L	ocation:	SCB-16	SCB-17	SCB-18	SCB-19	SCB-20	SCB-21	SCB-22	SCB-23	SCB-24	SCB-25	SCB-26	SCI	B-27	SCB-28	SCB-29	SCB-30			
Sample Depth (fe	et bgs):	2 - 4	2 - 4	2 - 4	2 - 4	2 - 4	0-2	2 - 4	0 - 2	2 - 4	2 - 4	2 - 4	2	- 4	2 - 4	2 - 4	2 - 4			
Sample Collection	on Date:	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	5/25/21	DUP 1	5/25/21	5/25/21	5/25/21	Groundwater	Non-Industrial	Industrial
Depth to Groundwater (fe	et bgs):	3.0	3.5	>4	3.5	>4	3.5	0.5	2.0	3.0	3.0	2.0	3	.0	3.0	2.5	3.0	Pathway		Direct Contact
Native Soil (N) or Fill / Rewo	rked	F	F	F	F	F	F	F	F	F	F	F	ı	F	F	F	F	RCL ⁴	RCL ⁵	RCL ⁶
Unsaturated/Smear Zone (U) or Saturated (S):	-	U/S	U/S	U	U/S	U	U	S	U	U/S	U/S	S	U	/S	U/S	U/S	U/S			
Photoionization Detector	ppm	0.3	0.0	0.1	0.2	0.2	1.6	0.4	1.0	0.6	3.5	0.9	2	.3	0.5	0.6	0.2	NS	NS	NS
VOCs																				
Benzene	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.116	<0.015	<0.015	<0.015	<0.015	0.0051	1.6	7.07
Ethylbenzene	mg/kg	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	0.10	<0.019	<0.019	<0.019	<0.019	1.57	8.02	35.4
Toluene	mg/kg	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.135	<0.032	<0.032	0.049 J	<0.032	1.1072	818	818
Xylenes (total)	mg/kg	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	0.225 J	<0.111	<0.111	<0.111	<0.111	3.96	260	260
PAHs																				
Acenaphthene	mg/kg	0.082	<0.0132	0.114	0.0224 J	0.0152 J	<0.0132	<0.0132	<0.0132	<0.0132	<0.0132	0.45	0.043 J	NA	<0.0132	1.33	<0.0132	NS	3,590	45,200
Acenaphthylene	mg/kg	0.094	<0.0092	0.0188 J	0.06	0.088	0.064	<0.0092	<0.0092	<0.0092	<0.0092	0.218	<0.0092	NA	0.0207 J	7.20	0.043	NS	NS	NS
Anthracene	mg/kg	0.297	0.0097 J	0.077	0.268	0.248	0.204	<0.0073	<0.0073	<0.0073	<0.0073	0.61	0.094	NA	0.044	11.5	0.04	196.9492	17,900	100,000
Benzo(a)anthracene	mg/kg	0.251	0.0159 J	0.04 J	0.152	0.122	0.082	<0.0158	<0.0158	<0.0158	0.0218 J	0.34	0.136	NA	0.073	[9.30]	0.0277 J	NS	1.14	20.8
Benzo(a)pyrene	mg/kg	[0.41]	<0.0142	0.038 J	[0.148]	[0.148]	0.082	<0.0142	<0.0142	<0.0142	<0.0142	[0.288]	0.11	NA	0.087	{[19.2] }	0.0284 J	0.47	0.115	2.11
Benzo(b)fluoranthene	mg/kg	0.55	0.0175 J	0.066	0.313	0.293	0.175	<0.0099	<0.0099	<0.0099	0.035 J	0.52	0.123	NA	0.115	{[22.8] }	0.054	0.4781	1.15	21.1
Benzo(ghi)perylene	mg/kg	0.44	0.0185 J	0.069	0.223	0.281	0.209	<0.0118	<0.0118	<0.0118	0.0195 J	0.79	0.072	NA	0.114	17.3	0.049	NS	NS	NS
Benzo(k)fluoranthene	mg/kg	0.162	<0.0091	0.0221 J	0.091	0.087	0.047	<0.0091	<0.0091	<0.0091	0.0156 J	0.132	0.066	NA	0.063	5.70	0.0192 J	NS	11.5	211
Chrysene	mg/kg	0.302	0.0129 J	0.048 J	0.25	0.184	0.107	<0.0124	<0.0124	<0.0124	0.0207 J	0.305	0.116	NA	0.085	8.80	0.0255 J	0.1442	115	2,110
Dibenzo(a,h)anthracene	mg/kg	0.078	<0.0142	<0.0142	0.0293 J	0.035 J	0.0218 J	<0.0142	<0.0142	<0.0142	<0.0142	0.095	0.0145 J	NA	0.0146 J	{[3.80]}	<0.0142	NS	0.115	2.11
Fluoranthene	mg/kg	0.49	0.0252 J	0.168	0.40	0.40	0.235	0.0158 J	<0.0091	<0.0091	0.0265 J	1.64	0.32	NA	0.16	15.9	0.049	88.8778	2,390	30,100
Fluorene	mg/kg	0.079	<0.0094	0.068	0.0204 J	0.0242 J	0.013 J	<0.0094	<0.0094	<0.0094	<0.0094	0.52	0.034 J	NA	<0.0094	1.42	0.043	14.8299	2,390	30,100
Indeno(1,2,3-cd)pyrene	mg/kg	0.36	<0.0126	0.042 J	0.161	0.198	0.127	<0.0126	<0.0126	<0.0126	0.0153 J	0.55	0.055	NA	0.074	[17.2]	0.042 J	NS	1.15	21.1
1-Methylnaphthalene	mg/kg	0.057	<0.0101	<0.0101	0.0124 J	0.0106 J	0.015 J	<0.0101	<0.0101	<0.0101	<0.0101	0.044	0.0316 J	NA	<0.0101	0.57	<0.0101	NS	17.6	72.7
2-Methylnaphthalene	mg/kg	0.086	<0.0138	<0.0138	0.0153 J	<0.0138	0.0169 J	<0.0138	<0.0138	<0.0138	<0.0138	0.0241 J	0.0291 J	NA	<0.0138	0.38	<0.0138	NS	239	3,010
Naphthalene	mg/kg	0.87	<0.0096	<0.0096	0.04	0.031 J	0.046	<0.0096	<0.0096	<0.0096	<0.0096	0.091	0.0227 J	NA	<0.0096	0.93	0.0101 J	0.6582	5.52	24.1
Phenanthrene	mg/kg	0.35	0.0114 J	0.038	0.232	0.155	0.17	0.015 J	<0.0077	<0.0077	0.0184 J	0.69	0.279	NA	0.072	2.83	0.0172 J	NS	NS	NS
Pyrene	mg/kg	0.42	0.0251 J	0.128	0.35	0.36	0.193	0.0103 J	<0.0091	<0.0091	0.0233 J	1.14	0.267	NA	0.142	23.9	0.047	54.5455	1,790	22,600

Notes:

1. Unsaturated/smear zone versus saturated soil conditions based on soil moisture conditions recorded on soil boring logs during drilling.

2. Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)

3. NA = not analyzed NS = no standard established

- 4. Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated December 2018) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- 5. Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- 6. Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- 7. Laboratory flags:

"J" = Analyte detected between Limit of Detection and Limit of Quantitation

05/25/21: All VOCs reported below laboratory detection limits.

= Analyte detected

8. Methanol blank results:

BOLD = Concentration exceeds Groundwater Pathway RCL

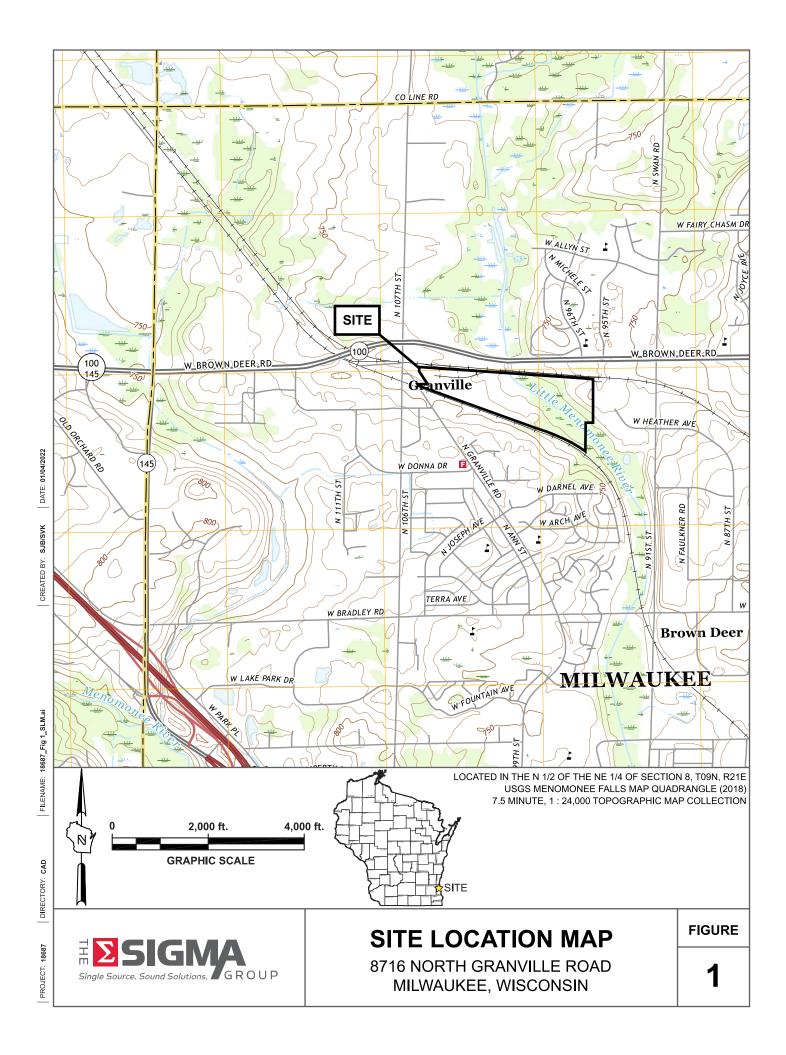
[] = Concentration exceeds Non-Industrial Direct Contact RCL

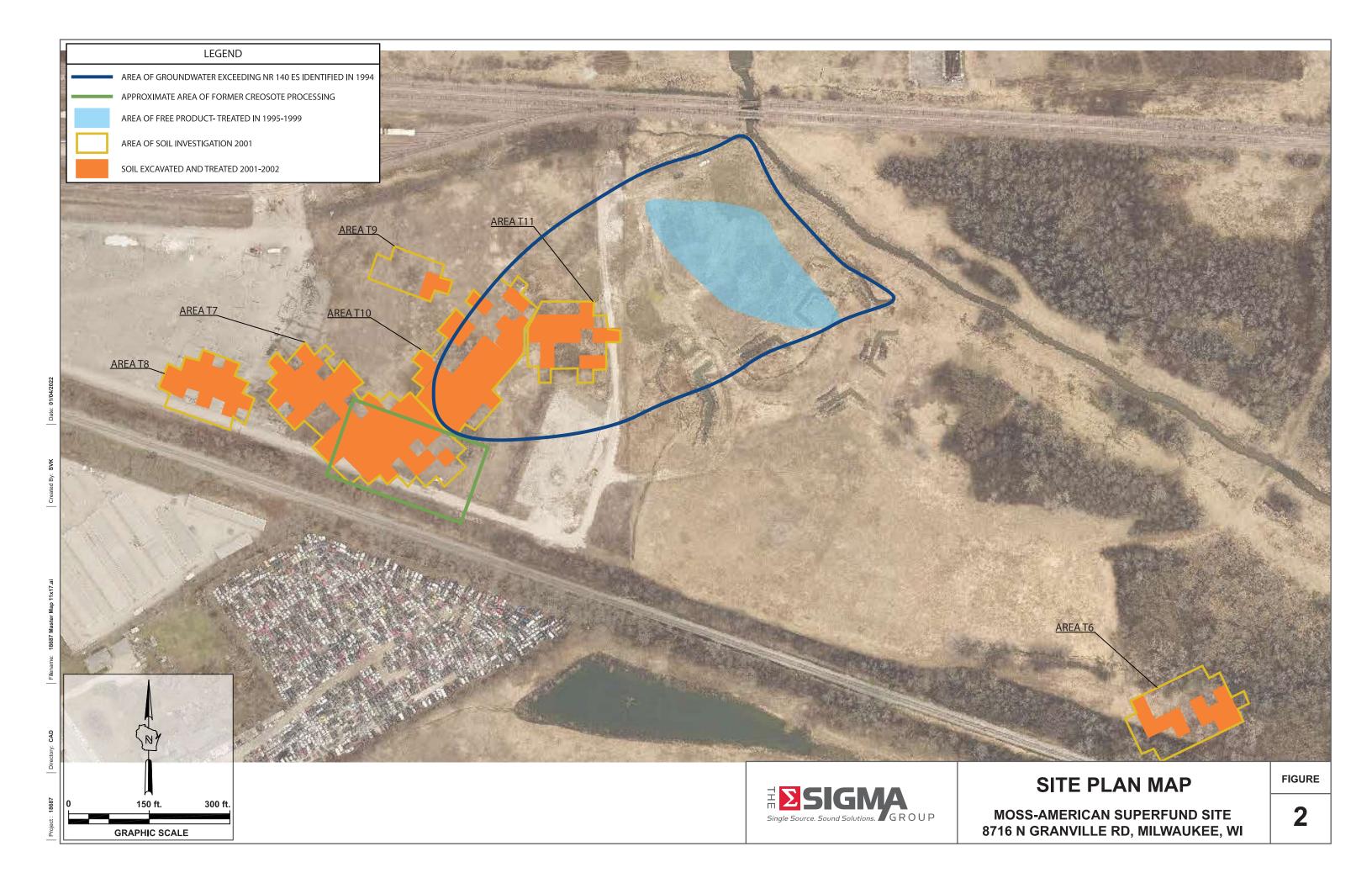
Data entered / updated by: SVK Data checked by: ASL Date: 9/15/2021

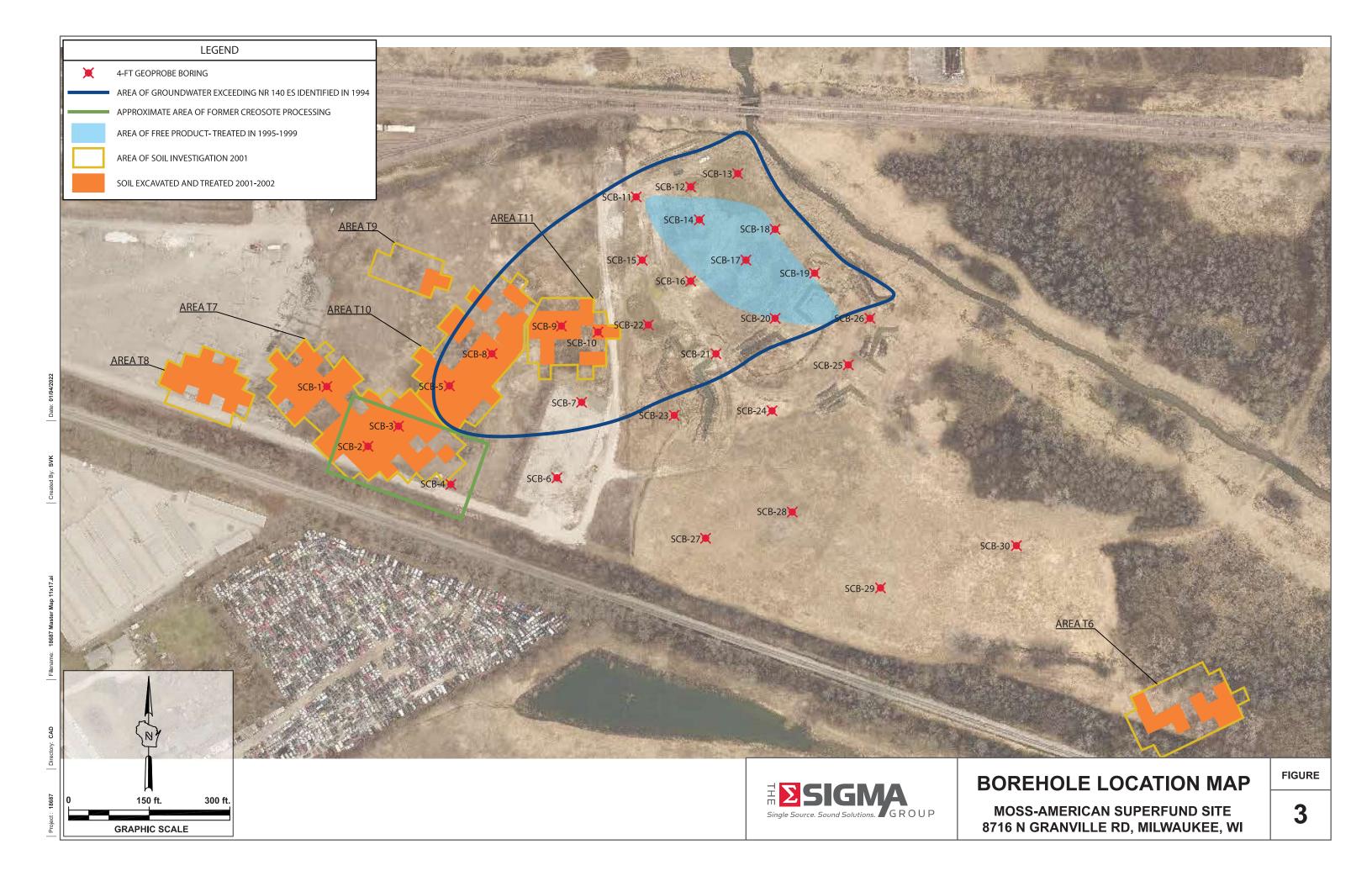
6/9/2021

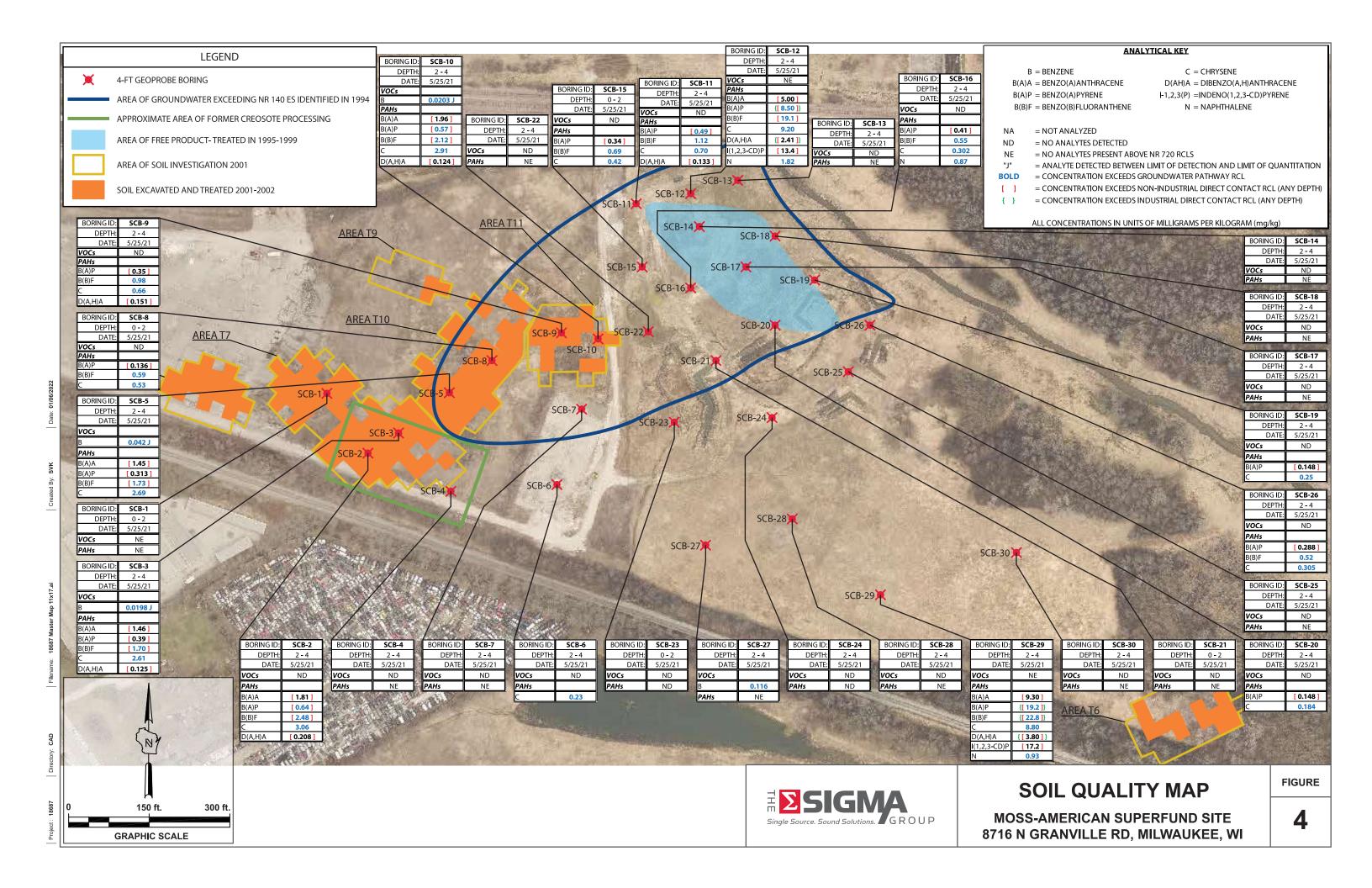
9. Exceedances:

{ } = Concentration exceeds Industrial Direct Contact RCL









SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Ro	ute To:	Watershed/W Remediation/			Waste Other	_	ement								
				remediation	11000 1010		011101							Pag	e 1_	of	1
Facility/Pro	ject Nat	ne					License	/Permit/	Monito	ring Nu	mber		Boring	Numbe		01	
Moss A								1-5295							SC	B-01	
		Name o	f crew cl	hief (first, last) a	nd Firm		Date Dr	illing St	tarted		Da	te Drilli	ng Con	npleted		Drill	ling Method
Gage Ka On-Site		onmen	tal Ser	vices, Inc.				5/25	/2021				5/25/2	2021			eoprobe
WI Unique		0.	DNR	Well ID No.		Well Name	Final St			el l		e Eleva			Bo		Diameter
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Local Grid (State Plane				: □) or Bor I, 2,491,578		m □ C/N	L	at <u>43</u>	3° 10)' 3	32.6"	Local C	iria Lo				
	4 of N		/4 of Se			I, R 21 E	Lor		3° 2	!' I	9.8"		Feet	□ N □ S			☐ E Feet ☐ W
Facility ID	701 1	1 11 1	74 01 00	County	, 0 1	, K DI B	County C	0	Civil T		ty/ or	Village					
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Sample													Soil	Prope	erties		
એ .દે	s s	t t		Soil/R	lock Descri	ption						٥					
Att.	ount	Fe L		And Ge	ologic Orig	gin For		l		_		SSiv	go .		\ <u>\ </u>		nts
Typ gth	Blow Counts	Depth In Feet		Eac	ch Major U	nit		CS	Graphic Log	Well Diagram	PID/FID	npre ngth	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
Number and Type Length Att. &	Blo	Dep						US	Grap	Well Diagr	PIC	Compressive Strength	Co.	Liquic Limit	Plastic Index	P 2	RQ Cor
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		F							1/ 1/1/								
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		3	dry.														
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		-3.5						CL-M									
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			End aban	of boring at 4 doned with h	r bgs. Bo vdrated b	orenoie sentonite :	chips to										Boring.
			surfa		<i>y</i> a <i>a a a a a a a a a a</i>												
I hereby cer	tify tha	t the info	rmation	on this form is tr	rue and corr	rect to the be	est of my k	nowled	ge.								
Signature		1+		11.1 1	,	Firm The	e Sigma	Group)	_						Tel:	414-643-4200
	1	Mun	~	When t			0 W Canal			, WI 53	233					Fax:	414-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			Rou	ite To:		astewater	Waste Other	Manage	ement								
					Remediation/	Redevelopment 🛛	Other										1
Facility/P		Name					License/	Dermit/	Monito	ring Nu	mber		Boring	Pag		of	1
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				crew cl	nief (first, last) ar	nd Firm	Date Dr				Da	te Drilli	ng Con	pleted			ing Method
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WI Uniqu					Well ID No.	Common Well Name				el		e Elevat			Во		Diameter
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Facility II		/1 14	** 17	10100	County	10 100,000	County Co		Civil T	own/Ci	ty/ or	Village					
24137	8280)			Milwaukee		41		Milw	aukee	:						
Sampl	e												Soil	Prope	erties		
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Att.	ed (ount	n Fe		And Ge	ologic Origin For		N N		=		sssiv	9. ₁		ty		ents
Number and Type Length Att.	Recovered (in)	Blow Counts	Depth In Feet		Eac	h Major Unit		SCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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				surfa	ice.												
-		y that	the info	rmation	on this form is to	rue and correct to the											
Signature		1	Luu	12/	Vil	A Firm TI	ne Sigma 00 W Canal	Group) wankee	WI 53	3233						414-643-4200 414-643-4210
		1	1,000	, -	I (MM)	13	OO 11 Cana	. J. 14111	- contract							- 51/51	

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Waste Management Watershed/Wastewater Route To: Other Remediation/Redevelopment 1 of 1 Page Boring Number Facility/Project Name License/Permit/Monitoring Number SCB-03 02-41-529585 Moss American Date Drilling Started Date Drilling Completed Drilling Method Boring Drilled By: Name of crew chief (first, last) and Firm Gage Kapugi 5/25/2021 5/25/2021 Geoprobe On-Site Environmental Services, Inc. DNR Well ID No. Common Well Name Final Static Water Level Surface Elevation Borehole Diameter WI Unique Well No. 2.3 inches Feet MSL 732.9 Feet MSL NA NA Local Grid Location (estimated:) or Boring Location Local Grid Origin 43° 101 31.4" Lat 434,549 N, 2,491,711 E S/C/N State Plane □ N \square E 2' 88° 18.1" Feet \square W NE 1/4 of NW 1/4 of Section 8. т8 N, R 21 E Long Feet \square S Civil Town/City/ or Village Facility ID County County Code Milwaukee 241378280 Milwaukee 41 Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description Compressive Strength Depth In Feet Blow Counts Length Att. Comments And Geologic Origin For Plasticity Moisture Graphic Well Diagram PID/FID Content Liquid Limit USC Each Major Unit 200 P U TOPSOIL. 48 48 Tan, well graded GRAVELLY SAND, S SWG loose, dry. Η 0.5 Brown SILTY CLAY with orange, tan, and black streaks and trace sand and gravel, stiff, moist. 1.0 0.2 1.5 2.0 CL-MI 2.5 3.0 Sample 0.4 collected from (2-4') for BTEX -3.5and PAHs 4.0 End of End of boring at 4' bgs. Borehole Boring. abandoned with hydrated bentonite chips to surface. I hereby certify that the information on this form is true and correct to the best of my knowledge, Signature The Sigma Group Tel: 414-643-4200 Fax: 414-643-4210 1300 W Canal St Milwaukee, WI 53233

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ate To:	Watershed/V				Manage	ement								
					Remediation	/Redevelopi	ment 🖾	Other										_
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Facility	s Am								-5295		ing ive	moes		Boring	rumbe		B - 04	
				f crew cl	hief (first, last) a	ınd Firm		Date Dri				Da	te Drilli	ng Con	npleted			ing Method
	e Kap Site E		nmen	tal Ser	vices, Inc.				5/25	/2021				5/25/2	2021			eoprobe
WI Un	ique W	ell No			Well ID No.		Well Name	Final Sta			el		e Elevat			Bo		Diameter
		ΙA		<u></u>	NA		VA		Feet N	MSL			735.5				2.3	inches
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San	iple													Soil	Prope	erties		
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				surfa		iyurateu t	Cinonine	chips to										
I herel	y certi	fy that	the info	rmation	on this form is	true and corr	rect to the be	est of my k	nowled	ge.								
Signat		/	7+		10.1	1	Firm Th	e Sigma	Group)								414-643-4200
		sl	New	V	Whent		130	0 W Canal	St Mil	waukee	WI 53	3233					Fax:	414-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	oute To:	Watershed/\				Manag	ement								
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-

Rev. 7-98

Route To: Watershed/Wastewater	Waste I	_	ement								
Remediation/Redevelopment 🗵	Other	L									
Facility/Project Name	License/I	Permit/	Monito	ring Nu	mber	Т	Boring	Pag Numbe		of	1
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Boring Drilled By: Name of crew chief (first, last) and Firm	Date Dril	lling St	arted		Da	te Drilli	ng Con	npleted		Drill	ing Method
Gage Kapugi On-Site Environmental Services, Inc.			/2021				5/25/2	2021			eoprobe
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NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E	Long			-	14.3 "		Feet	\Box s]	Feet W
Facility ID County	County Co	de	Civil To			Village					
241378280 Milwaukee	41	r - 1	Milw	aukee	:	r.	Soil	Prope	arties	-	
Sample								Frope	lies		
Soil/Rock Description						ive					.83
And Geologic Origin For Each Major Unit		S	.e	am	l p	oress gth	ure	-	city		/ nenf
Number and Type and Type Tength Att. & Recovered (in) And Geologic Origin For Each Major Unit		USC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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Black SILTY CLAY, stiff, wet.				-	9.0						Sample collected
II E I											from (2-4')
-3.5		CL-MI									for BTEX and PAHs.
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End of boring at 4' bgs. Borehole	1		0.0000000000000000000000000000000000000								End of Boring.
abandoned with hydrated bentonite of surface.	emps to										
J Surrage.											
I hereby certify that the information on this form is true and correct to the be	est of my kr	10wled	ge.								
Signature Of 1 Firm The	e Sigma (Group)								414-643-4200
Sum Mult 130	0 W Canal	St Mil	waukee	. WI 53	3233					Fax:	414-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Rou	te To:	Watershed/W Remediation/		_	Waste Other	Manage	ement								
														Pag	e 1	of	1
Facility/Proje							License			ring Nu	ımber		Boring	_	er		
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ype h At	Cou	In			ologic Orig h Major U	=		S	iic	am	£	ress	ure		city		nent
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Lac	ii iviajoi O	1111		USC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 48	P		Brow	n, gray, red,	and blac	k, well gra	nded	1			р.,	0 8	20		н	<u>н</u>	
GP 33		0.5 1.0 1.5 - - 2.0 2.5 3.0 3.5	Tan, p Brown mediu	poorly graded in SILTY CL lim stiff, wet.	d SAND AY with	, soft, wet.	ks,	SC-SM		▼	0.7						Sample collected from (2-4') for BTEX and PAHs. End of Boring.
hereby certif	y that the	infor	mation o	on this form is tr	ie and cori	ect to the bes	st of my k	nowledg	ge.								
Signature	l	tim	r	What:	1	Firm The	Sigma W Canal	Group St Milv	waukee,	, WI 53.	233		_				414-643-4200 414-643-4210
		-															

SOIL BORING LOG INFORMATION

Form 4400-122

			Ro	ate To:	Watershed/	Wastewatei	. 🗌		e Mana	gen	nent								
					Remediation	n/Redevelo	pment 🛚	Othe	r 🗌										
																Pag	ge 1	of	1
	y/Projec								e/Permi			ring N	ımber		Boring	Numbe		D 00	
	ss Am) [2]			41-529				IDa	ite Drilli	C			B-08	ing Method
	g Drilled ge Kap	20	Name of	crew ch	ief (first, last)	and Firm		Date L	Orilling S	Star	tea		Da	ne Driin	ng Con	пріецец		Driii	ing Method
On-	Site E	nviro			vices, Inc.	IC	n Well Name	Time 15	5/2 Static W		2021		Carefoo	e Elevat	5/25/2	2021	Do		Diameter Diameter
WI UI	ique W	en No IA		DNK V	NA	Commo	NA	rmars	Feet			'		731.5		/ISL	Во		inches
	Grid Or) or Bo		ion 🗌	1		13 °			32.7"	Local C	irid Lo	cation			
State					2,491,883		/C/N			88°			15.7"						E
NE Facilit		of N	IW 1.	4 of Sect	tion 8,	т 8	N, R 21 E	County		_				Village	Feet				Feet W
	37828	80			Milwaukee			41				auke							
San	nple									İ					Soil	Prope	erties		
	i.)	S	et		Soil/	Rock Desc	ription							U					
. <u>e</u>	Att.	ount	n Fe		And C	ieologic Or	igin For					ے ا		SSiv	စ		E		unts
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Ea	ach Major I	Unit		SCS	-	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
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GP	48 17	P U			n SILTY C l, and organ					3									
		S H	-	Биичо	i, and organ	<i>n</i> eo, mee				3									
			-0.5							4									
										1									
			1.0							3			6.4						Sample
										3									collected from (0-2')
			-1.5							1									for BTEX and PAHs.
			F							1									und 17113.
			F.,						CL-M	п									
			-2.0						CL-IV	11									
										1									
			-2.5							1									
			-							3									
			-3.0										0.4						
										1			0.4						
			F																
			<u></u> -3.5							8									
										Į.									
			-4.0	End c	of boring at	4' bgs. I	Borehole			- 12	шш								End of
				aband	loned with	hydrated	bentonite	chips to)										Boring.
				surfac	e.														
Lherol	w certif	Si that	the info	rmation o	on this form is	true and co	proct to the b	est of my	knowle	dge			_	1					
Signat		y tiidl	# #	i ii ii ii ii ii ii	10 -1	A.	141	e Sigma										Tale	414-643-4200
		d	Tun	-	When	4	111	00 W Can			iukee,	WI 53	3233						114-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

				Rot	ute To:	Watershe		ewater \square levelopment $oxtimes$	1	Waste Other	_	ement									
						Remedia	uon/Red	ievelopment 🗠	s i	Other	Ц										
Facili	ty/Proje	ct Na	me							License/	Permit	/Monit	oring	Nu	mber		Boring	Pag Numb		of	1
Mo	oss Am	eric	an								-529:			1000	100000001					B-09	9
			Nam	e of	f crew chie	ef (first, la	st) and F	ìrm		Date Dri	lling S	tarted			Da	te Drilli	ng Cor	npleted		Dril	ling Method
On-		Envir		ent		ces, Inc.						/2021					5/25/2	2021			eoprobe
WI U	nique W		07			ell ID No.	Co	mmon Well Na	me	Final Sta				S		e Eleva		(CT	Bo		Diameter
Local	Grid O	IA rigin	П	(es		NA or	Boring	NA Location		121	.1 Fe	et MS	SL_			724.6 Local C				2.3	inches
	Plane					2,491,9		S/C/N		La	ıt <u>43</u>	s° 1	0'_	3.	3.2"				1		□ Е
NE		of 1	1W	1/	4 of Section		T_	8 N, R 21		Lon			2'		4.5"		Feet	□ s			Feet W
Facili 241	ty ID 137828	2Λ				ounty Milwauk				ounty Co	ode				y/ or '	Village					
	mple	1	1	Т	IN	/IIIwauk	ee			+1		Milv	vauk	ee		ľ	Soil	Prope	ortion		
_041	1					S.	sil/Dools	Description								-	Son	Frope	lites		-
	tt. &	unts	Too H					gic Origin For								ive					, so
ber Fype	th A	Ş	1 5			71110	_	ajor Unit			CS	:ê		.am	FID	oress gth	ture	- u	city	_	nent
Number and Type	Length Att. & Recovered (in)	Blow Counts	Denth In Feet					,			n S (Graphic	Well	Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	48	P	+	Ì	TOPSO	OIL.						7118 7	-		Щ_	0 0)	20		HI		
GP	35	U S	F			-						11. 11.11									
		Н	F 0.	5								1. N.	1								
			E	I	Brown	SILTY	CLAY	with trace s	sand,												
			<u>-</u> 1.	۱	gravel, moist.	and pos	ssible f	oundry sand	, stif	t,											
			F	۱	1110151.										0.2						
			Ė											1							
			<u></u> ⊢1.	5										1							
			-2.	0																	
			Ē																		
			-								CL-MI										
			<u>-2</u> .	5																	
			-																		
			-3.	0											0.2						Cample
				1											U.Z						Sample collected
			F,	_ ا									v								from (2-4') for BTEX
			-3 .	3									1								and PAHs.
			E																		
L			-4.	0	Fnd of	horing	at 4' ha	s. Borehole													End of
					abando	ned with	n hydra	ated bentonit	e ch	ips to											Boring.
					surface	-															
				1																	
I herel Signat		y that	the in	for	mation on	this form	is true ai	nd correct to the	_												
Jigital	cii c	L.	12	1111	(V	Wille	A			Sigma C V Canal S			13/1	537	33						114-643-4200
_			000	W///9	-	FICH	-		200 V	- Cultar c	/s (#III)	Taurec	44.1	222.	22					rax.	114-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			R	Coute To:	Watershed/V	_		ste Manag er 🔲	gement								
					Kemediation	/Redevelopment 🛚	Otne	er 🗀									
Facili	ty/Proje	ct Na	me				Licen	se/Permi	/Monit	toring N	lines la c		Davino	Pag Numb		of	1
	ss An							41-529		oring iv	umbe	r	Boring	Numb		B-1	n
Borin	g Drille	d By:	Name	of crew c	hief (first, last) a	nd Firm		Drilling S				ate Drill	ing Cor	npleted			ling Method
	ge Kap -Site E		onme	ntal Ser	vices, Inc.			5/25	5/202	1			5/25/2	2021		G	eoprobe
WIU	nique W		0.	DNR	Well ID No.	Common Well Name	Final	Static Wa			Surfa	ice Eleva			Вс		Diameter
7		ΙA			NA	NA	7.	22.1 Fe	et M	SL		722.6				2.3	inches
	Grid O Plane	rigin			:) or Bound of Boun		- 1	Lat4	3° 1	0'	33.1	Local	Grid Lo				_
NE		of N		1/4 of Se		T 8 N, R 21 E			8°	2'	13.0	1	Foot	N □ S □ :			☐ E Feet ☐ W
Facili		01 1	• • • • • • • • • • • • • • • • • • • •	17 1 01 50	County	1 0 11,121 12	County					Village	reel	. L 3			reet u w
241	37828	30			Milwaukee		41			vauke							
Sar	nple												Soil	Prope	erties		
	& in)	, n	- H		Soil/F	lock Description											
o)	Att. ed (unt	F. F.		And Ge	cologic Origin For						sive					ts
Typ	gth /	ν	유		Eac	ch Major Unit		CS	hic	ram	HID I	pres	ture	면 1	icity		/ men
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet					O S	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	48	P	=	Ligh	t gray GRAV	ELLY SAND wit	th trace		G	:		0 02	~ 0		HI		1 -
GP	43	U S	-	orgai	nics, loose, di	ry.		SWG	b. (1)								
		Ĥ	-0.5	Brow	vn SILTY CI	AY with trace or	ganics			₩ 🔻							
				and s	sand, medium	i stiff, wet.				#							
			E							1							
			-1.0								0.6						
			-								0.0						
			F								1						
			-1.5					CT. NO									
								CL-M	1								
1			-2.0							1							
				1													
			-2.5	1													
			F														
			F														
			-3.0			Y CLAY with ora					0.9						Sample
				and v	vhite patches	and trace sand an											collected
			-3.5	grave	el, very stiff,	wet.		CL-MI									from (2-4') for BTEX
								La IVII									and PAHs.
			-														
L			-4.0	End	of having at 4	bgs. Borehole				1							E I C
				ahand	on ouring at 4	drated bentonite	chins to										End of Boring.
				surfac	ce.	diated bentonne	emps to				ľ						
herek	v certif	y (hat	the info	rmation o	on this form is to	ae and correct to the be	est of my	knowleda	re.			1					
Signat			1) 1		10.1	2 766											
85		el	Asu	w	When A	/ 1110	e Sigma 0 W Cana	Group I St Mili	vaukee	WI 53	233						14 - 643-4200 14 - 643-4210
			-								_						

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7

Rev. 7-98

			Re	oute To:	Watershed/W Remediation/	Tastewater Redevelopment	Waste Other	Manag	ement								
														Pag	ge 1	of	1
	y/Proje						License			oring N	ımber		Boring	Numb	er		-
	ss Am 2 Drille			of crew ch	nief (first, last) ar	nd Firm	Date Dr	1-529:			Da	ate Drill	ng Cor	npleted		B-1	ling Method
Gag	ge Kap	ougi					N1144 510410										
On- WLUi	Site E	ell N	onmer	ital Serv	vices, Inc.	Common Well Name	e Final St		5/2021	el I	Surfac	e Eleva	5/25/2	2021	Do.		eoprobe Diameter
	7	JA			NA	NA	i mai Si	Feet 1				719.7		ISL	Bu		inches
Local State	Grid O	rigin) or Bori , 2,492,141		1 1	at 43	3° 10)' 3	35.6"	Local (Grid Lo	cation			
NE		of N		,902 1 1/4 of Sec	Care C	E S/C/N T8 N.R 21 E		ng 88			2.1 "		Feet	□ N □ S			☐ E Feet ☐ W
Facilit	y ID				County	10 angit 21 D	County C	-	Civil T	own/Ci	ty/ or	Village	1 001				Teet W
	37828	30			Milwaukee		41		Milw	aukee				-			T
Sar	nple				C-:1/D	a ala Danasia di								Prope	erties		-
	Length Att. & Recovered (in)	unts	Depth In Feet			ock Description ologic Origin For						ive					l s
ber Type	Length Att. Recovered (Blow Counts	h In			h Major Unit		CS	hic	ram	FID	press gth	ture	ъ.,	icity		/ nent
Number and Type	Leng	Blov	Dept					N S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
I GP	48 39	P U	-			GRAVELLY S	AND,		σ. Ч.								
		S H	<u>-</u>	loose	, ary.				o.(<u>)</u> .								
		11	-0.5					SWG	φ. (
			Ē						o. [/								
			-1.0	Brow	n GRAVELI	Y CLAY with tr	ace		11/19		0.1						
			-		and organics,												
			-1.5					CLG									
			-2.0	-=		<i></i>											
						ck, well graded S gravel and black											
			-2.5	sand ((possible four	ndry sand), medi											
			-2.3	moist	•												
			-														
			-3.0					CLS			0.5						Sample
																	collected from (2-4')
			-3.5														for BTEX and PAHs.
			-4.0	Endo	f having at 1	bgs. Borehole											End of
				aband	loned with hy	drated bentonite	chips to										Boring.
				surfac	e.												
l I hereb	y certif	v that	the info	rmation o	n this form is tru	e and correct to the b	est of my kr	nowledg	e.								-
Signati			11+	_	10-11	Ties	e Sigma (Tel· /	114-643-4200
		~	Mu	w	What		0 W Canal			WI 532	233						114-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

	Rou	te To:	Watershed/W			Manage	ement								
			Remediation/	Redevelopment 🛭	Other										1
Facility/Project Name					License/	Permit/	Monito	ring Nu	mber	1	Boring	Pag Numbe		of	<u> </u>
Moss American						1-5295					00,6			B-12	2
Boring Drilled By: Na	me of	crew chie	ef (first, last) ar	id Firm	Date Dri	Iling St	arted		Da	te Drilli	ng Con	pleted		Drill	ing Method
Gage Kapugi On-Site Environ	menta						/2021				5/25/2	2021			eoprobe
WI Unique Well No.		DNR W	ell ID No.	Common Well Name				:1		e Elevat		ACT.	Bo		Diameter
NA Local Grid Origin	lest	imated:	NA or Bori	NA Na Location		Feet N			_	718.9 I Local C					inches
			2,492,242		La	at <u>43</u>	<u> </u>)' 3	5.8"	OTHERN OF		□N			□Е
NE 1/4 of NW	7 1/4	4 of Sect	ion 8,	T 8 N, R 21 E	Lon				0.8"		Feet	□s]	Feet W
Facility ID			County		County Co	ode	Civil T			Village					
241378280		1	Milwaukee		41		IVIIIW	aukee	-		Soil	Prope	rtios		
Sample			0.11/0	1.75							3011	Тторс	rtics		
t. & d (in)	Geet			ock Description						ive					S
ype h At erec	In			ologic Origin For h Major Unit		S	Jic .	am am	Ð,	oress gth	fure	ъ	city		/ men1
Number and Type Length Att. & Recovered (in) Blow Counts	Depth In Feet		1.40	n wajor Omt		USC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 48 P		Brown	SILTY CL	AY with trace gra	avel and	1 -	77777	<i>></i> 1	<u> </u>	00	~ 0		<u> </u>		
SH	-0.5 -1.0 -1.5 -2.0	Dark l trace p		ck SILTY CLAY kk sand (possible		CL-MI			0.1						
	-3.0 -3.5 -4.0 -	aband surfac	oned with hy	' bgs. Borehole ydrated bentonite		CL-MI			0.2		1 .7				Sample collected from (2-4') for BTEX and PAHs. End of Boring.
I hereby certify that the	e infor	mation o	n this form is tr				_								
Signature	g uun	. 1	Ty/but		ne Sigma 00 W Canal			WI 53	233						414-643-4200 414-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Rot	ite To:	Watershed	/Wastew	ater 🗌	Was	te Manag	gem	ent									
					Remediation	n/Redev	relopment 🛮	Othe	er 🗌											
																	Pag	e 1	of]
Facility	//Projec	t Nair	ie					Licen	se/Permi	t/Me	onitor	ring N	Vun	ber		Boring		er		
	s Am								41-529										B-13	
Boring	Drilled	By:	Name of	crew ch	ief (first, last)	and Fir	m	Date 1	Drilling S	Start	ted			Dat	e Drilli	ng Con	ıpleted		Drill	ing Method
On-	e Kap Site E	nviro	nment	al Serv	vices, Inc.				5/2							5/25/2	2021			eoprobe
WI Un	ique W			DNR V	Well ID No.	Com	mon Well Name	e Final	Static W			el .	Su		Elevat			Во		Diameter
		Α		ļ	NA		NA		Feet	MS	SL		_		18.7 I				2.3	inches
Local (State I	Grid Or	ıgın			2,492,32		S/C/N	1	Lat 4	3°	10	1	36	.0"	Local C	nia Loc		,		
NE		of N		4 of Sec		.5 Е	N, R 21 E			8°	2	1	9	.6"		Feet	□ N □ S		1	☐ E Feet ☐ W
Facility		01 10	VV 1.		County	1 0	N, K ZI L	County							/illage	1 000		_		1001 11
	37828	0			Milwauke	е		41			/lilwa		- 55		- 5					
San	nple							74.		İ						Soil	Prope	erties		
					Soi	l/Rock E	escription						1							
		Blow Counts	Depth In Feet				Origin For								Compressive Strength					lts
Number and Type	Length Att. Recovered (වි	h In			Each Ma			CS	-	olu		Diagram	PID/FID	pres igth	Moisture Content	pi +	Plasticity Index	0	RQD/ Comments
Jum Ind J	eng (eco	Nol)ept			-			U.S.	2,	Graphic	Well	Jiag	/III	Com	Mois Cont	Liquid Limit	Plastic Index	P 200	КQD/
1	48	P		TOPS	SOIL.				12		12 1		_		0 01					
GP	37	U	Ė	1016	,012					1	11/2									
		S H	-0.5	Light	brown SII	TY C	LAY with or	range												
			-0.5				race gravel a	and												
				organ	nics, stiff, c	ıry.				3										
			-1.0							2				0.1						
			-										1	0.1						
													1							
			-1.5																	
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									CL-N	Л										
			-																	
			-2.5																	
			Ε Ι																	
			-3.0											0.2						Sample
			Ė.																	collected from (2-4')
			<u>-</u> 3.5																	for BTEX
			- 3.3																	and PAHs.
<u>L</u>			-4.0	Τ.Ι.	£1	4 AL L	Danahala			- 122	1888		1							End of
				end o	or boring a	t 4' bgs hvdra	. Borehole ted bentonite	chins t	0											Boring.
				surfac		ny ara	ica beniennie	· cmps t	Ŭ											
Lherek	ny certif	v that	the info	rmation o	on this form i	s true an	d correct to the	best of my	knowle	dge			-							
Signat	-	, mat	n.l.	,	10-0	1	Lan	he Sigm			-								Tal.	414-643-4200
		1	Muc	, !	When t	<u> </u>	1 1	00 W Car			iukee,	, WI :	532	33						414-643-4210

should be sent.

SOIL BORING LOG INFORMATION

Fax: 414-643-4210

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Redevelopment Other Page Facility/Project Name License/Permit/Monitoring Number Boring Number Moss American SCB-14 02-41-529585 Date Drilling Completed Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Drilling Method Gage Kapugi On-Site Environmental Services, Inc. 5/25/2021 5/25/2021 Geoprobe WI Unique Well No. DNR Well ID No. Common Well Name Final Static Water Level Surface Elevation Borehole Diameter NA NA 716.0 Feet MSL 719.0 Feet MSL 2.3 inches or Boring Location Local Grid Origin (estimated: Local Grid Location 43° 10' 35.1 434,939 N, 2,492,258 E Lat: State Plane S/C/N \square E \square N 88° 21 10.61 NE 1/4 of NW 1/4 of Section 8, т 8 N, R 21 E Feet \square S Feet W Long Facility ID Civil Town/City/ or Village County County Code 241378280 Milwaukee 41 Milwaukee Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description Compressive Strength Depth In Feet Blow Counts Length Att. And Geologic Origin For Comments Moisture Well Diagram USCS PID/FID **Plasticity** Graphic Content Liquid Each Major Unit Limit 200 Log P U 48 Yellowish brown, well graded SANDY 41 CLAY with some gravel, stiff, dry. S 0.5 1.0 0.5 CLS 1.5 · 2 0 -2.5 -3.0Dark brown SILTY CLAY with black and 0.4 Sample collected gray streaks and trace gravel, very stiff, from (2-4') wet. for BTEX 3.5 CL-M and PAHs. End of boring at 4' bgs. Borehole End of Boring. abandoned with hydrated bentonite chips to surface. I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature The Sigma Group Tel: 414-643-4200

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299. Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form

1300 W Canal St Milwaukee, WI 53233

SOIL BORING LOG INFORMATION

Form 4400-122

			Ro	ute To:		Vastewater [Redevelopme		Waste Other	Manage	ement								
															Pag	ge 1	of	1
Facilit	y/Projec	et Nan	ne					License	Permit/	Monito	ring N	umber		Boring	-	er		
	ss Am								1-5295								B-15	
			Name o	f crew c	hief (first, last) a	nd Firm		Date Dr	illing St	arted		Da	ite Drilli	ng Con	npleted		Drill	ing Method
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GP	41	U S	-							11 311								
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				dry.	ust motting	and trace g	iavei, si	111,										
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			-1.5															for BTEX
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			=															
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				CLA	YEY SAND	with GRA	VEL, sti	iff,										
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Signat	ure	0	tim		Vilul	li-i		Sigma (W Canal			W 53	222						414-643-4200 114-643-4210
		~	rum		TOOKUT		1300	w Canal	OL WIIIV	naukee,	E WI DO	ددے					гах: 4	114-643-4210

SOIL BORING LOG INFORMATION

Fax: 414-643-4210

Rev. 7-98

Form 4400-122 Waste Management Watershed/Wastewater Route To: Other \square Remediation/Redevelopment Page of 1 Boring Number License/Permit/Monitoring Number Facility/Project Name SCB-16 02-41-529585 Moss American Drilling Method Date Drilling Started Date Drilling Completed Boring Drilled By: Name of crew chief (first, last) and Firm Gage Kapugi On-Site Environmental Services, Inc. 5/25/2021 5/25/2021 Geoprobe DNR Well ID No. Common Well Name Final Static Water Level Surface Elevation Borehole Diameter WI Unique Well No. 2.3 inches 716.4 Feet MSL 719.4 Feet MSL NA NA Local Grid Location (estimated:) or Boring Location Local Grid Origin 43° 10' 34.0" Lat 434,825 N, 2,492,242 E S/C/N State Plane □ E □ N 88 ° 2' 10.8" Feet S Feet W NE 1/4 of NW 1/4 of Section 8. Т8 N, R 21 E Long Civil Town/City/ or Village Facility ID County County Code 41 Milwaukee 241378280 Milwaukee Soil Properties Sample Length Att. & Recovered (in) Soil/Rock Description Compressive Strength Depth In Feet Blow Counts Length Att. And Geologic Origin For Comments B - Number and Type Moisture Plasticity PID/FID Diagram Content Graphic Liquid Each Major Unit USC Limit Index 200 Well Log P U 48 TOPSOIL. 34 S 11:34 Н -0.5-1.0Black SANDY PEAT with trace crushed 0.3 4 11/ brick and sand (possible foundry sand), medium soft, moist. 111/11 1.5 1, 11, 11/11 1, 11, PT -2.011/1 1, 11, 11/11 -2.5 1, 11, 11/1 0.3 Sample Black SILTY CLAY, medium soft, wet. collected from (2-41) for BTEX CL-MI -3.5and PAHs. 4.0 End of End of boring at 4' bgs. Borehole Boring. abandoned with hydrated bentonite chips to surface. I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Tel: 414-643-4200 The Sigma Group

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

1300 W Canal St Milwaukee, WI 53233

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater Remediation/Redevelopment		Waste Ma Other 🔲	_	ment								
Remediation/Redevelopment 2	Δ '	Office _							-			1
Facility/Project Name	I	icense/Per	mit/	Monito	rine Ni	umber		Boring	Pag Numb		of_	1
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Boring Drilled By: Name of crew chief (first, last) and Firm		ate Drillin				Da	te Drilli	ng Con	npleted			ling Method
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On-Site Environmental Services, Inc. WI Unique Well No. DNR Well ID No. Common Well No.	ame Fi	inal Static			N = 1	Surfac	e Eleva	5/25/2	2021	Bo		Diameter
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And Geologic Origin For Each Major Unit Each Major Unit			SO	Graphic Log	Well Diagram	PID	Compres Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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and gravel, stiff, dry.												
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abandoned with hydrated benton	ite chip	s to										Boring.
surface.												
I hereby certify that the information on this form is true and correct to the Signature Firm			_	e.								
		gma Gro Canal St 1		aukee,	WI 53	233						414-643-4200 414-643-4210

SOIL BORING LOG INFORMATION

Fax: 414-643-4210

Form 4400-122 Rev. 7-98 Department of Natural Resources Route To: Watershed/Wastewater Waste Management Other Remediation/Redevelopment Page License/Permit/Monitoring Number Boring Number Facility/Project Name SCB-18 Moss American 02-41-529585 Date Drilling Completed Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Drilling Method Gage Kapugi Geoprobe On-Site Énvironmental Services, Inc. 5/25/2021 5/25/2021 Common Well Name WI Unique Well No. DNR Well ID No. Final Static Water Level Surface Elevation Borehole Diameter 2.3 inches Feet MSL 717.8 Feet MSL NA NA ☐ (estimated: ☐) or Boring Location Local Grid Location Local Grid Origin 34.9 43° 10' Lat . 434,921 N, 2,492,401 E State Plane S/C/N □ N \square E 2' 88° 8.6" Feet W Feet S 1/4 of NW 1/4 of Section 8. N, R 21 E Civil Town/City/ or Village County Code Facility ID County 241378280 41 Milwaukee Milwaukee Soil Properties Sample Soil/Rock Description Recovered (in) Compressive Strength Depth In Feet Blow Counts Length Att. And Geologic Origin For Comments Well Diagram Moisture PID/FID Plasticity Content Graphic Liquid Each Major Unit SC Limit 200 48 TOPSOIL Û 32 White, well graded GRAVEL (possible S crushed concrete) with trace sand and clay, Η 0.5 Light brown to white GRAVELLY CLAY with black mottling and trace sand, stiff, 1.0 0.2 dry. - 1.5 2.0 -2.5 -3.00.1 Sample collected from (2-4') for BTEX -3.5 and PAHs. 4.0 End of End of boring at 4' bgs. Borehole Boring. abandoned with hydrated bentonite chips to surface. I hereby certify that the information on this form is true and correct to the best of my knowledge, Signature The Sigma Group Tel: 414-643-4200

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299. Wis, Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

1300 W Canal St Milwaukee, WI 53233

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			R	oute To:	Watersh	ned/Wastew	rater 🔲		Waste	Manag	ement								
					Remedia	ation/Redev	elopment [\boxtimes	Other										
																Pag	ge 1	of	1
	y/Proje									/Permit/		oring N	umber		Boring	Numb	er.		
	ss An									1-529:								B-19	
		- 5	Name	of crew chie	f (first, la	ast) and Fir	m		Date Di	rilling St	tarted		Da	ite Drill	ing Cor	npleted		Dril	ing Method
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SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			Ro	ute To:	Watershed/	Wastew	vater \square		Waste 1	Manage	ement								
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	ss Am								02-41	-5295	585						SC	B-20)
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			-	and t	race sand a	nd gra	vel, stiff, mo	oist.											collected from (2-4')
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				ahan	doned with	hvdra	ted bentonite	e ch	ips to										Boring.
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Signat		,	11 1		10 1	1	1411		Sigma (Tale	414-643-4200
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Page 1 of 1				<u>R</u>	oute To:		astewater		_	ement								
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Gage Kapugi On-Site Environmental Services, Inc. Size Pine Si					of areas of	hiaf (first last) o	nd Firm					Do	to Drilli	na Con	anlatad			
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And Geologic Origin For Each Major Unit Signature And Geologic Origi	San	nple												Soil	Prope	erties		
Topsoil. Tan, well graded SANDY GRAVEL, loose, dry. Brown SILTY CLAY with gray, black, and rust mottling and trace sand and gravel, stiff, moist. CL-Mi Lad of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface. Chereby certify that the information on this form is true and correct to the best of my knowledge. Signature Tel: 414-643-4200		3 (ri	50	t l		Soil/R	ock Description						U					
Topsoil. Tan, well graded SANDY GRAVEL, loose, dry. Brown SILTY CLAY with gray, black, and rust mottling and trace sand and gravel, stiff, moist. CL-Mi Land of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface. Chereby certify that the information on this form is true and correct to the best of my knowledge. Firm The Sigma Group Tel: 414-643-4200	. 0	Att.	ount	Fe		And Ge	ologic Origin For				_		SSiv	o o		>		nts
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111c Signia Group			y that	the int	ormation	on this form is tr	Dec											
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Facility/Project Name

Moss American

Route To:

Watershed/Wastewater

Remediation/Redevelopment

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98 Waste Management 1 of 1 Page License/Permit/Monitoring Number Boring Number SCB-22 02-41-529585 Date Drilling Started Date Drilling Completed Drilling Method Geoprobe 5/25/2021 Borehole Diameter Surface Elevation 720.9 Feet MSL 2.3 inches Local Grid Location 10! 33.2" \Box E \square N 2 ' 11.91 Feet \square W Feet S Civil Town/City/ or Village Milwaukee Soil Properties Compressive Moisture Well Diagram PID/FID Strength Plasticity Graphic Content Liquid P 200 Limit Log 74 1/V. 11.31, 11:34 \mathbf{Y}

Boring Drilled By: Name of crew chief (first, last) and Firm Gage Kapugi 5/25/2021 On-Site Environmental Services, Inc. Common Well Name Final Static Water Level WI Unique Well No. DNR Well ID No. 720.4 Feet MSL NA NA Local Grid Origin (estimated:) or Boring Location 43° Lat 434,744 N, 2,492,163 E S/C/N State Plane 88° 1/4 of Section T 8 8, N. R 21 E NE 1/4 of NW Long County Code Facility ID County 241378280 41 Milwaukee Sample Soil/Rock Description Recovered (in) Depth In Feet Blow Counts Length Att. And Geologic Origin For and Type USCS Each Major Unit P 48 TOPSOJL. 34 S H 0.5 Brown SILTY CLAY with dark brown and black mottling and trace organics, soft, wet. -1.0 0.3 1.5 2.0 CL-MI 2.5 -3.0 Sample collected from (2-4') for BTEX -3.5 and PAHs. 4.0 End of End of boring at 4' bgs. Borehole Boring. abandoned with hydrated bentonite chips to surface.

Other \square

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

Signature Firm Tel: 414-643-4200 The Sigma Group Fax: 414-643-4210 1300 W Canal St Milwaukee, WI 53233

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To	o: Watershed/Wastewater	Waste N	_	ement								
	Remediation/Redevelopment	Other										
									Pag	•	of	1
Facility/Project Name		License/I			ring Nu	mber		Boring	Numb		D 22	,
Moss American Boring Drilled By: Name of crew	a chief (first last) and Firm	Date Dril				Dat	e Drillii	те Соп	mleted		B-23	ing Method
Gage Kapugi		Date Din										10
On-Site Environmental So WI Unique Well No. DN	R Well ID No. Common Well Name	Final Stat		/2021 ter Leve	1 19	Surface	Elevat	5/25/2 ion	.021	Bo		eoprobe Diameter
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	ed:) or Boring Location	1 10	t43	° 10	' 3	1.6"	Local G	rid Lo	cation			
•	N, 2,492,236 E S/C/N					1.0"		г.				□ E Feet □ W
NE 1/4 of NW 1/4 of S Facility ID	Section 8, T 8 N, R 21 E	Long County Co	3	Civil To			/illage	Feet				reet 🗆 W
241378280	Milwaukee	41	- 1	Milwa								
Sample								Soil	Prope	erties		
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Att. ed (And Geologic Origin For				-		ssiv	e)		<u>ج</u> ا		nts
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet	Each Major Unit		CS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
			S O	Grap	Well Diagi	PIL	Con	° Co Co Co Co	Liquid Limit	Plastic Index	P 2	& <u>0</u>
GP 42 U S H -0.5 -1.0 Bla mo -1.5 -2.0 Bla strestiff -3.0 -3.5 -4.0 En aba	ack SILTY CLAY with trace sand oist. ack SILTY CLAY with gray and leaks and trace sand and gravel, most, wet. d of boring at 4' bgs. Borehole and oned with hydrated bentonite offace.	brown edium	CL-MI	7 4 4 7 4 7 4 7 4	▼ i	0.6						Sample collected from (0-2') for BTEX and PAHs.
I hereby certify that the information Signature		est of my kn	Group		WI 52	222						414-643-4200 414-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122

		Ro	watershed/Wastewater Remediation/Redevelop		Waste I Other	_	ement								
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Moss Am					02-41			. mg 140	oct		rou mg	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		B-24	1
Boring Drille	d By:		of crew chief (first, last) and Firm		Date Dri				Da	te Drilli	ng Con	npleted			ing Method
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WI Unique W).		Well Name	Final Sta					Elevat		ACT.	Bo		Diameter
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State Plane	in Bass			/C/N	La	t43		1' 3	1.6"			□N	I		□E
	of N	W 1		n, r 21 e	Long				8.8"		Feet	□s			Feet W
Facility ID 24137828	20		County Milwaukee		County Co 41		Civil To Milw		-	/illage					
Sample			Milwaukee		41		MIIW	aukee			Soil	Prope	erties		
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Lber Type th A	Ŝ	h In	Each Major U	_		CS	hic	ram	FID	pres	ture	P 4	icity		men
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth In Feet				Sn	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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GP 38	U S H	-0.5 -1.0 -1.5 -2.0 -3.0 -3.5	Orangish brown, well grad SILT with trace clay and gas abandoned with hydrated surface.	ded SANDY gravel, wet.		CL-MI		*	0.8						Sample collected from (2-4') for BTEX and PAHs. End of Boring.
I hereby certif	y that	the info	rmation on this form is true and cor	rect to the best	of my kn	owlede	e.								
Signature	J	tem	. ViluA	Firm The S	Sigma C	Group		WI 521)33						14-643-4200
	2	- vivil	1-0 may	1300	w Canar S	or ishiiy	rausce,	WI J32	دد۔					rax: 4	14-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122

			Re	oute To:	Watershed/\ Remediation				Waste Other	_	ement								
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	y/Proje ss An							100	icense/ 02-41			oring N	umber	2	Boring	Numb		— т П Э	
				of crew chi	ief (first, last)	and Firn	n		Date Dri				Da	te Drilli	ing Cor	npleted		B-2:	lling Method
	ge Ka _l Site F		onmer	ntal Serv	ices, Inc.					5/25	/2021				5/25/2	2021		G	eoprobe
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	ענע 37828	30			County Milwaukee			41	unty Co	de	Milw			Village					
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					.,, 1000 0 , u	- , .				SW									
			-2.5																
				Black	SILTY CL	AY, m	edium stif	ff, wet	i.										
			-3.0									¥	3.5						Sample
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			-3.5							CL WIL									for BTEX and PAHs.
-			-4.0	End of	f boring at 4	l' bgs.	Borehole												End of
				abando surface	oned with h	ydrate	d bentonit	te chip	s to										Boring.
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ignati	ii C	1	Thur	n l	Went			The Sig 300 W			vaukee.	WL53	233						114-643-4200 114-643-4210
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SOIL BORING LOG INFORMATION

Form 4400-122

			F	Route To:	Watershed	/Wastew	rater 🗌		Waste N	_	ement								
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	ty/Proje								cense/P			ring N	umber		Boring	Numb			
	oss Am			of convert	Infiferent Land	and Class	SCA.		02-41-				Irv	- TS 4111	7			B-26	
	ge Kar		Name	or crew en	nief (first, last)	and Fin	m	Da	ate Drill	ling Si	tarted		Da	te Drilli	ng Con	npleted	4	Dril	ling Method
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WI U	nique W		Э.	DNR V	Well ID No.	Com	mon Well Nar	me Fir	nal Stat					e Elevat			Bo	rehole	Diameter
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er	h At rered	Con	li F			-	Origin For			S	i,o	<u> </u>		ressi	are at		ity		ents
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Signat	ure	1	1+	vi.	Vil.	1		he Sig											14-643-4200
		-	M	w	100 mil)		1.	300 W C	Lanal St	Milv	vaukee.	WI 53.	255					Fax: 4	14-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122

			Ro	ute To:	Watershed/W Remediation			Waste Other	Manag	ement									
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			Name o	f crew c	hief (fîrst, last) a	nd Firm		Date Dr	illing S	tarted			Dat	e Drilli	ng Con	npleted		Dril	ing Method
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Facility 241	37828	80			County Milwaukee			County C	oue	Civil T Milw			or v	mage					
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	-	100	t		Soil/F	lock Des	cription							13					
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			E		rust patches a														
			-2.0		sible froundry	sand a	and metal s	slag),											
			<u></u>	stiff,	ary.				CL-MI										
			F						CT-1411										
			-2.5								1								
			E																
			3.0	Blac	k SILTY CL	AY wit	h trace san	d,			¥		2.3						Sample
			-		ium soft, wet.			,											collected from (2-4')
			-3.5						CL-MI										for BTEX and PAHs.
			E																414 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
L			-4.0																
			1.0	End	of boring at 4 doned with h	l' bgs.	Borehole Lbentonite	chins to											End of Boring.
				surfa		yuraicu	CINOTITE	cinps to											
		fy that	the info	rmation	on this form is to	ue and co	Taran												
Signat	ure	1	Time	V	Went			ne Sigma 00 W Canal			V 1/1 4	5277	33						414-643-4200 414-643-4210
_			VINN		J MW V		130	70 W Canal	OC IVIII	waukce	vv I .	J J Z J	,,					1 d.V.	717-077-4710

SOIL BORING LOG INFORMATION

Form 4400-122

			Ro	ute To:	Watershed/	Wastew	ater 🔲	V	Vaste N	/lanage	ement										
					Remediatio	n/Redev	elopment 🛚	O	Other												
																Pag	ie 1	of	1		
Facility/Project Name									License/Permit/Monitoring Number Boring Number								er				
Moss American Boring Drilled By: Name of crew chief (first, last) and Firm																		CB-28			
		93	Name o	f crew cr	nef (first, last)	Da	Date Drilling Started Date Drilling Completed									Drilling Method					
Gage Ion-Sit	e Ér	iviro	nmen		vices, Inc.		5/25/2021						5/25/2	Geoprobe							
WI Uniqu			. =	DNR V	Well ID No.	Com	mon Well Nam	ne Fin			er Leve		Surf	ce Eleva		orehole Diameter					
Local Grid	N.		□ (e:	etimated:	NA or Bo	oring La	NA ecation		725.	4 Fee	et MS	L		728.4	Feet N	2.3 inches					
State Plan		Em			, 2,492,43		Lat	43	° 10) '	29.7	Locar	orid Lo	ľ		□Е					
State Plane 434,395 N, 2,492,430 E S/C/N NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E										88	° 2	1	8.4		Feet		Feet W				
Facility ID County C										le											
241378280 Milwaukee 4											Milw	auke	e	-	0.11	D					
Sampl	_													-	Soil Properties						
88	:	Soil/Rock Description												\ e							
r /pe	ered	Cour	F H			_	Origin For			S	2	<u> </u>		ressi	ire	_	ity		ents		
Number and Type Length Att.	Recovered (in)	Blow Counts	Depth In Feet		E	ach Maj	or Unit		li li	SC	Graphic Log	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
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			-1.5								37. 34										
			1.5	Gray	ish brown,	well gr	aded GRAV	VELL'	Y												
				CLA	Y with som	e sand	, sum, ary.														
			-2.0																		
			-							CLG											
			-2.5						1												
			-3.0	Brow	n SILTY C	LĀŸ	with black s	treaks			hini	¥	0.5						Sample		
			55 10	and to	race sand ar	nd grav	vel, stiff, we	et.											from (2-4')		
			-3.5						Į.	CL-MI									for BTEX and PAHs.		
			Ė																and 1 At 13.		
			-4.0	End o	of boring at	4' bgs.	Borehole												End of		
				aband		hydrat	ed bentonite	e chips	s to										Boring.		
				Suria	ce.																
Lharabu o	ertif	thet	the infe	l	on this form is	Ima one	l correct to the	hest of	my log	wleda	re.			1							
Signature	citily	mat	ne inic	nination (on uns tollii IS	a ac anc	Time				, <u>, , , , , , , , , , , , , , , , , , </u>							т.	114 212 4222		
		1	Vin	w	WhenA		1.	he Sig 300 W C			vaukee.	WI 5:	3233						114-643-4200 114-643-4210		
			75.60																		

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater Waste Management Other Remediation/Redevelopment of 1 Page Facility/Project Name License/Permit/Monitoring Number Boring Number SCB-29 Moss American 02-41-529585 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Gage Kapugi On-Site Environmental Services, Inc. 5/25/2021 5/25/2021 Geoprobe WI Unique Well No. DNR Well ID No. Common Well Name Final Static Water Level Surface Elevation Borehole Diameter NA NA 727.0 Feet MSL 730.0 Feet MSL 2.3 inches Local Grid Origin (estimated:) or Boring Location Local Grid Location 28.3 " 43° 101 Lat State Plane 434,255 N, 2,492,594 E S/C/N □ N \square E 2' 88° 6.2 NE 1/4 of NW 1/4 of Section 8, N, R 21 E Long Feet S Feet W Facility ID County Code Civil Town/City/ or Village County 241378280 Milwaukee 41 Milwaukee Sample Soil Properties Recovered (in) Soil/Rock Description Compressive Strength Depth In Feet Blow Counts Length Att. And Geologic Origin For Diagram Moisture PID/FID Plasticity USCS Content Graphic Each Major Unit Liquid Well Limit 200 Log P U 1 18. VI 48 TOPSOIL with trace gravel. 36 1/ 1/ S H 11 11 0.5 17. 11. 11/4 Tan, well graded SAND, loose, dry. 0.3 SW 1.5 Dark brown, well graded GRAVELLY CLAY, medium stiff, moist. CLG 2.0 White to tan, well graded GRAVELLY SAND, loose, dry. SWG -2.5 Dark grayish brown SILTY CLAY with trace sand and gravel, stiff, wet. -3.0CL-MI 0.6 Sample collected from (2-4') for BTEX 3.5 Black PEAT, soft, wet. and PAHs. 11, PT 11,11 -4.0 End of boring at 4' bgs. Borehole End of Boring. abandoned with hydrated bentonite chips to surface. I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature The Sigma Group Tel: 414-643-4200 1300 W Canal St Milwaukee, WI 53233 Fax: 414-643-4210

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	oute To:	Watershed/W	astewater			Manag	ement										
					Remediation/	Redevelop	ment 🛚	Other												
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	y/Proje ss Am					40 C VIII TO A MICE	License/Permit/Monitoring Number 02-41-529585 Boring Number S)				
				f crew ch	nief (first, last) ar	nd Firm		rilling St		Da	te Drilli	ng Con	npleted		B-30 Drilling Method					
Gag	ge Kap	ougi			vices, Inc.			5/25	1	5/25/2021					Geoprobe					
	nique W				Well ID No.	Common	Well Name	Final St		Surfac	e Eleva		3021	rehole Diameter						
		IA			NA		NA	72	0.8 Fe	et MS	L		723.8		2.3 inches					
Local State	Grid Oi Plane	rigin			☐) or Bor , 2,492,847		on [] C/N	L	at43	° 10)	29.0 "	Local Grid Location							
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		1540	n Major O	1111		SC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
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Signati	ure	/	tuu	. i	WhenA			e Sigma 0 W Canal			W/I 52	233						114-643-4200 114-643-4210		
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