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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 proposal[1] submitted to the Wisconsin Department of Natural Resources (WDNR) on August 9, 2019, to implement the Scope of Work[2] 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.

Drilling Activities. 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**.

Survey. 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).

Investigative Waste Disposal. 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.

Geology. 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.

Soil Quality Results. 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 Location:		SCB-1	SCB-2	SCB-3	SCB-4	SCB-5	SCB-6		SCB-7	SCB-8	SCB-9	SCB-10	SCB-11	SCB-12	SCB-13	SCB-14	SCB-15	Groundwater Pathway RCL [4]	Non-Industrial Direct Contact RCL [5]	Industrial Direct Contact RCL [6]
Sample Depth (feet 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 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			
Depth to Groundwater (feet bgs):		>4	>4	>4	>4	>4	3.0		1.5	>4	3.5	0.5	>4	>4	>4	3.0	3.0			
Native Soil (N) or Fill / Reworked Soil (F):		F	F	F	F	F	F		F	F	F	F	F	F	F	F	F			
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 Date: 6/9/2021
Data checked by: ASL Date: 9/15/2021

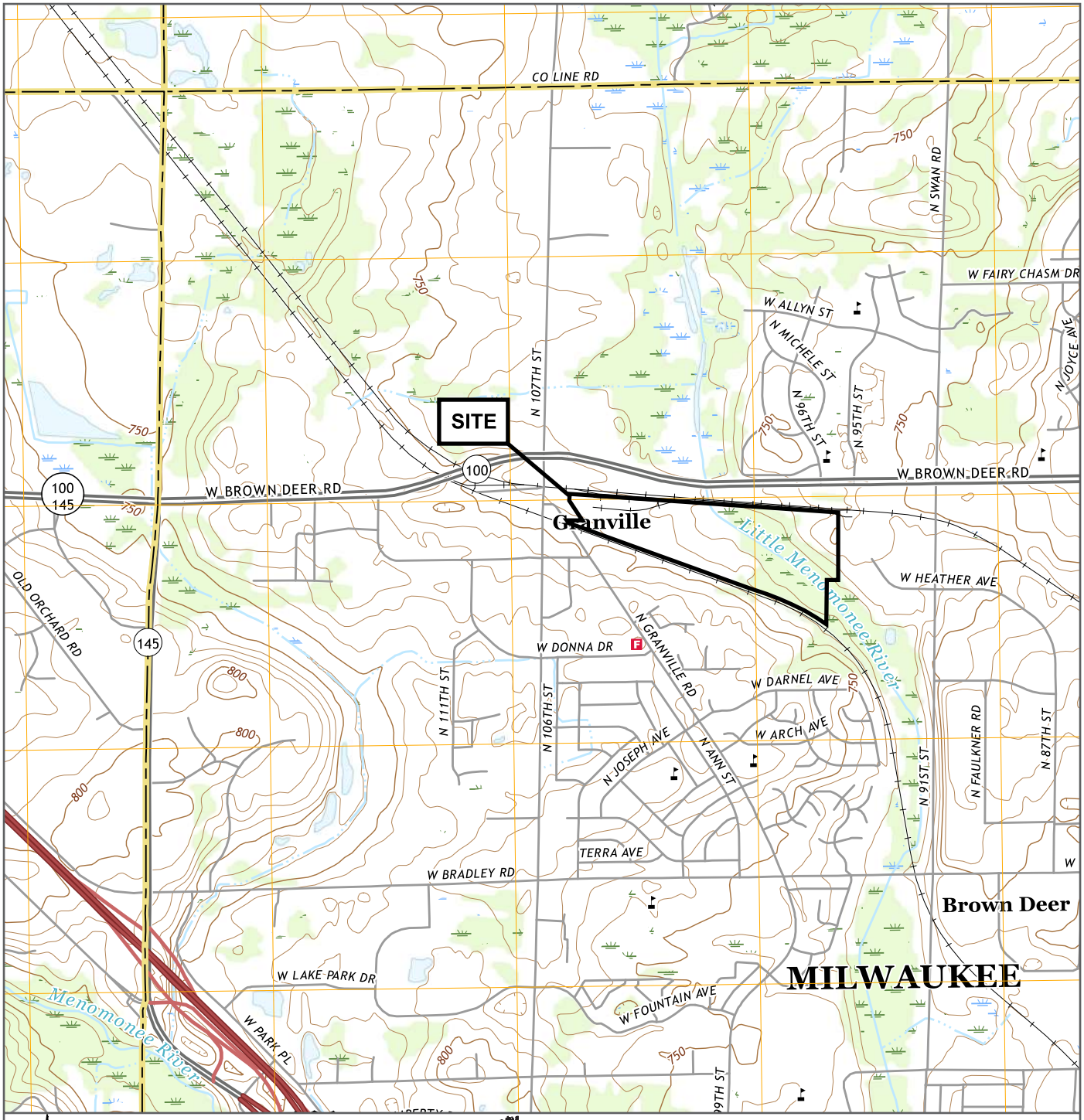
Table 1
Soil Analytical Results - Soil Cap Borings
Moss American - 8716 N. Granville Road, Milwaukee, Wisconsin
Sigma Project No. 18687

Soil Sample Location:		SCB-16	SCB-17	SCB-18	SCB-19	SCB-20	SCB-21	SCB-22	SCB-23	SCB-24	SCB-25	SCB-26	SCB-27		SCB-28	SCB-29	SCB-30	Groundwater Pathway RCL [4]	Non-Industrial Direct Contact RCL [5]	Industrial Direct Contact RCL [6]
Sample Depth (feet 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 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			
Depth to Groundwater (feet 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			
Native Soil (N) or Fill / Reworked Soil (F):		F	F	F	F	F	F	F	F	F	F	F	F		F	F	F			
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 = 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 Date: 6/9/2021
Data checked by: ASL Date: 9/15/2021



0 2,000 ft. 4,000 ft.

GRAPHIC SCALE

LOCATED IN THE N 1/2 OF THE NE 1/4 OF SECTION 8, T09N, R21E
USGS MENOMONEE FALLS MAP QUADRANGLE (2018)
7.5 MINUTE, 1 : 24,000 TOPOGRAPHIC MAP COLLECTION

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SITE LOCATION MAP

8716 NORTH GRANVILLE ROAD
MILWAUKEE, WISCONSIN

FIGURE
1

PROJECT: 18687 | DIRECTORY: CAD | FILENAME: 18687_Fig 1_SLM.ai | CREATED BY: SJB/SVK | DATE: 01/04/2022

LEGEND

- AREA OF GROUNDWATER EXCEEDING NR 140 ES IDENTIFIED IN 1994
- APPROXIMATE AREA OF FORMER CREOSOTE PROCESSING
- AREA OF FREE PRODUCT- TREATED IN 1995-1999
- AREA OF SOIL INVESTIGATION 2001
- SOIL EXCAVATED AND TREATED 2001-2002

AREA T9

AREA T11

AREA T7

AREA T10

AREA T8

AREA T6

N

0 150 ft. 300 ft.

GRAPHIC SCALE

Project: 18687 | Directory: CAD | Filename: 18687 Master Map 11x17.ai | Created By: SVK | Date: 01/04/2022

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SITE PLAN MAP

MOSS-AMERICAN SUPERFUND SITE
8716 N GRANVILLE RD, MILWAUKEE, WI

FIGURE

2

LEGEND

- 4-FT GEOPROBE BORING
- AREA OF GROUNDWATER EXCEEDING NR 140 ES IDENTIFIED IN 1994
- APPROXIMATE AREA OF FORMER CREOSOTE PROCESSING
- AREA OF FREE PRODUCT- TREATED IN 1995-1999
- AREA OF SOIL INVESTIGATION 2001
- SOIL EXCAVATED AND TREATED 2001-2002

AREA T9
AREA T11
AREA T7
AREA T10
AREA T8
AREA T6

SCB-1
SCB-2
SCB-3
SCB-4
SCB-5
SCB-6
SCB-7
SCB-8
SCB-9
SCB-10
SCB-11
SCB-12
SCB-13
SCB-14
SCB-15
SCB-16
SCB-17
SCB-18
SCB-19
SCB-20
SCB-21
SCB-22
SCB-23
SCB-24
SCB-25
SCB-26
SCB-27
SCB-28
SCB-29
SCB-30

N

0 150 ft. 300 ft.

GRAPHIC SCALE

Project: 18687 | Directory: CAD | Filename: 18687 Master Map 11x17.ai | Created By: SVK | Date: 01/04/2022

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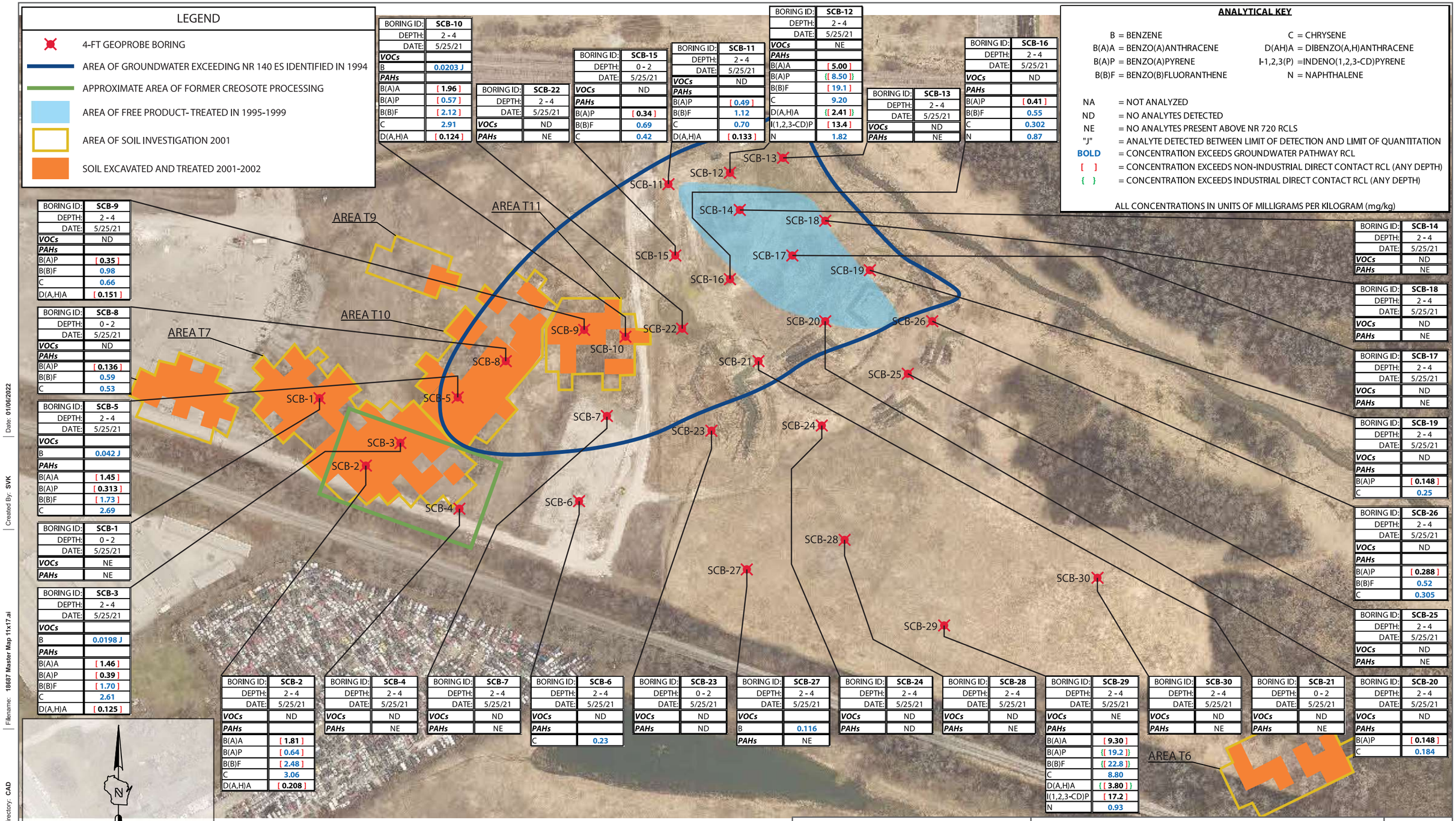
BOREHOLE LOCATION MAP

MOSS-AMERICAN SUPERFUND SITE
8716 N GRANVILLE RD, MILWAUKEE, WI

FIGURE
3



BORING ID:	SCB-10
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	
B	0.0203 J
PAHs	
B(A)A	[1.96]
B(A)P	[0.57]
B(B)F	[2.12]
C	2.91
D(A,H)A	[0.124]

BORING ID:	SCB-22
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-15
DEPTH:	0 - 2
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.34]
B(B)F	0.69
C	0.42

BORING ID:	SCB-11
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.49]
B(B)F	1.12
C	0.70
D(A,H)A	[0.133]

BORING ID:	SCB-12
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	NE
PAHs	
B(A)A	[5.00]
B(A)P	{[8.50]}
B(B)F	[19.1]
C	9.20
D(A,H)A	{[2.41]}
I(1,2,3-CD)P	[13.4]
N	1.82

BORING ID:	SCB-13
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-16
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.41]
B(B)F	0.55
C	0.302
N	0.87

BORING ID:	SCB-9
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.35]
B(B)F	0.98
C	0.66
D(A,H)A	[0.151]

BORING ID:	SCB-8
DEPTH:	0 - 2
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.136]
B(B)F	0.59
C	0.53

BORING ID:	SCB-5
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	
B	0.042 J
PAHs	
B(A)A	[1.45]
B(A)P	[0.313]
B(B)F	[1.73]
C	2.69

BORING ID:	SCB-1
DEPTH:	0 - 2
DATE:	5/25/21
VOCs	NE
PAHs	NE

BORING ID:	SCB-3
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	
B	0.0198 J
PAHs	
B(A)A	[1.46]
B(A)P	[0.39]
B(B)F	[1.70]
C	2.61
D(A,H)A	[0.125]

BORING ID:	SCB-2
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)A	[1.81]
B(A)P	[0.64]
B(B)F	[2.48]
C	3.06
D(A,H)A	[0.208]

BORING ID:	SCB-4
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-7
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-6
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
C	0.23

BORING ID:	SCB-23
DEPTH:	0 - 2
DATE:	5/25/21
VOCs	ND
PAHs	ND

BORING ID:	SCB-27
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	
B	0.116
PAHs	NE

BORING ID:	SCB-24
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	ND

BORING ID:	SCB-28
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-29
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	NE
PAHs	
B(A)A	[9.30]
B(A)P	{[19.2]}
B(B)F	{[22.8]}
C	8.80
D(A,H)A	{[3.80]}
I(1,2,3-CD)P	[17.2]
N	0.93

BORING ID:	SCB-30
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-21
DEPTH:	0 - 2
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-20
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.148]
C	0.184

BORING ID:	SCB-14
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-18
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-17
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

BORING ID:	SCB-19
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.148]
C	0.25

BORING ID:	SCB-26
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	
B(A)P	[0.288]
B(B)F	0.52
C	0.305

BORING ID:	SCB-25
DEPTH:	2 - 4
DATE:	5/25/21
VOCs	ND
PAHs	NE

Date: 01/06/2022 | Created By: SVK | Filename: 18687 Master Map 11x17.ai | Directory: CAD | Project: : 18687

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SOIL QUALITY MAP

MOSS-AMERICAN SUPERFUND SITE
8716 N GRANVILLE RD, MILWAUKEE, WI

FIGURE
4

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-01

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	NA	Feet MSL	732.9 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,663 N, 2,491,578 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 32.6"
Long 88° 2' 19.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 31	PUSH	0.0	TOPSOIL.										
			0.5	WOOD.	PT									
			1.0					1.5						Sample collected from (0-2') for BTEX and PAHs.
			1.5	Black, well graded CLAYEY SAND with trace gravel, soft, wet.	SC-SM									
			2.0	Black SILTY CLAY with trace sand, stiff, dry.										
			2.5		CL-MI									
			3.0	Brown SILTY CLAY, stiff, dry.				0.7						
			3.5		CL-MI									
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

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.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-02

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	NA	Feet MSL	734.4 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,512 N, 2,491,653 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 31.1" Long 88° 2' 18.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 46	P U S H	0.0	TOPSOIL.										
				Tan, well graded GRAVELLY SAND, loose, dry.	SWG									
			0.5	Brown SILTY CLAY with orange, black, white, and red patches and trace sand and gravel, stiff, dry.										
			1.0					0.2						
			1.5											
			2.0											
					CL-MI									
			2.5											
			3.0					0.2						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-03

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	NA	Feet MSL	732.9 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,549 N, 2,491,711 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 31.4" Long 88° 2' 18.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 48	PUSH	0.5	TOPSOIL.										
				Tan, well graded GRAVELLY SAND, loose, dry.	SWG									
			1.0	Brown SILTY CLAY with orange, tan, and black streaks and trace sand and gravel, stiff, moist.				0.2						
			1.5											
			2.0		CL-ML									
			2.5											
			3.0					0.4						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-04

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	NA	Feet MSL	735.5 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,442 N, 2,491,807 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 30.3" Long 88° 2' 16.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 36	PUSH	0.5	TOPSOIL.										
			1.0	Tan, well graded GRAVELLY SAND, loose, dry.	SWG			0.6						
			1.5	Black, well graded SILTY CLAY with trace sand, gravel, brick fragments, and possible foundry sand, stiff, dry.	CL-ML									
			2.0											
			2.5											
			3.0					0.4						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-05

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	NA	Feet MSL	731.5 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,625 N, 2,491,804 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 32.2"
Long 88° 2' 16.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 47	PUSH	0.5	TOPSOIL.										
			1.0	Brown SILTY CLAY with trace tan to white sand and gravel lenses, stiff, dry.				0.9						
			1.5											
			2.0											
			2.5		CL-ML									
			3.0					1.0						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-06

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	NA	728.8 Feet MSL	731.8 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,460 N, 2,491,994 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 30.5"
Long 88° 2' 14.3"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 39	PUSH	0.5	Dark brown SILTY CLAY with black and orange streaks and trace sand and gravel, stiff, dry.	CL-ML			0.6						
			1.5	Brown SILTY CLAY, medium stiff, moist.	CL-ML									
			3.0	Black SILTY CLAY, stiff, wet.	CL-ML		▼	9.0						Sample collected from (2-4') for BTEX and PAHs.
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-07

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	NA	724.8 Feet MSL	726.3 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,600 N, 2,492,039 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 31.9"
Long 88° 2' 13.6"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 33	PUSH	0.5	Brown, gray, red, and black, well graded CLAYEY SAND with GRAVEL, stiff, moist.	SC-SM		▼	0.7						
			1.0											
			1.5	Tan, poorly graded SAND, soft, wet.	SP									
			2.0	Brown SILTY CLAY with rust streaks, medium stiff, wet.										
			2.5											
			3.0		CL-MI			0.8						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-08

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	NA	Feet MSL	731.5 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,685 N, 2,491,883 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 32.7"
Long 88° 2' 15.7"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 17	PUSH	0.5	Brown SILTY CLAY with trace sand, gravel, and organics, medium soft, moist.	CL-ML			6.4						Sample collected from (0-2') for BTEX and PAHs.
			1.0											
			1.5											
			2.0											
			2.5											
			3.0					0.4						
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-09

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	NA	721.1 Feet MSL	724.6 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,735 N, 2,491,969 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 33.2" Long 88° 2' 14.5"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 35	PUSH	0.5	TOPSOIL.										
			1.0	Brown SILTY CLAY with trace sand, gravel, and possible foundry sand, stiff, moist.	CL-ML			0.2						
			1.5											
			2.0											
			2.5											
			3.0					0.2						Sample collected from (2-4') for BTEX and PAHs.
			3.5				▼							
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-10

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	NA	722.1 Feet MSL	722.6 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,724 N, 2,492,080 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 33.1" Long 88° 2' 13.0"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 43	PUSH	0.5	Light gray GRAVELLY SAND with trace organics, loose, dry.	SWG									
			1.0	Brown SILTY CLAY with trace organics and sand, medium stiff, wet.	CL-ML		▼	0.6						
			1.5											
			2.0											
			2.5											
			3.0	Dark brown SILTY CLAY with orange and white patches and trace sand and gravel, very stiff, wet.	CL-ML			0.9						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-11

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	NA	Feet MSL	719.7 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,982 N, 2,492,141 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 35.6" Long 88° 2' 12.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 39	PUSH	0.5	White, well graded GRAVELLY SAND, loose, dry.	SWG									
			1.0	Brown GRAVELLY CLAY with trace sand and organics, soft, dry.				0.1						
			1.5		CLG									
			2.0	Dark brown to black, well graded SANDY CLAY with trace gravel and black vitreous sand (possible foundry sand), medium soft, moist.										
			2.5											
			3.0		CLS			0.5						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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 1300 W Canal St Milwaukee, WI 53233	Fax: 414-643-4210

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-12

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	NA	Feet MSL	718.9 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 435,000 N, 2,492,242 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 35.8" Long 88° 2' 10.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 33	PUSH	0.5	Brown SILTY CLAY with trace gravel and organics, stiff, dry.										
			1.0		CL-ML			0.1						
			1.5											
			2.0	Dark brown to black SILTY CLAY with trace peat and black sand (possible foundry sand), stiff, moist.										
			2.5											
			3.0		CL-ML			0.2						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-13

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	NA	Feet MSL	718.7 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 435,030 N, 2,492,325 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 36.0"
Long 88° 2' 9.6"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 37	PUSH	0.5	TOPSOIL										
			1.0	Light brown SILTY CLAY with orange and black streaks and trace gravel and organics, stiff, dry.	CL-ML			0.1						
			1.5											
			2.0											
			2.5											
			3.0					0.2						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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 1300 W Canal St Milwaukee, WI 53233	Fax: 414-643-4210

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-14

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	NA	716.0 Feet MSL	719.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,939 N, 2,492,258 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 35.1" Long 88° 2' 10.6"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 41	PUSH	0.5	Yellowish brown, well graded SANDY CLAY with some gravel, stiff, dry.				0.5						
			1.0											
			1.5		CLS									
			2.0											
			2.5											
			3.0	Dark brown SILTY CLAY with black and gray streaks and trace gravel, very stiff, wet.			▼	0.4						Sample collected from (2-4') for BTEX and PAHs.
			3.5		CL-ML									
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-15

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	NA	718.0 Feet MSL	721.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,865 N, 2,492,152 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 34.4"
Long 88° 2' 12.0"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 41	PUSH	0.0	TOPSOIL.										
			0.5	Brown SANDY CLAY with black, white, and rust mottling and trace gravel, stiff, dry.	CLS			1.1						Sample collected from (0-2') for BTEX and PAHs.
			2.0	Brown, tan, and white, well graded CLAYEY SAND with GRAVEL, stiff, dry.	SC-SM		▼							
			3.0	Black SANDY CLAY with trace black sand (possible foundry sand) and metal slag, stiff, wet.	CLS			0.4						
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-16

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	NA	716.4 Feet MSL	719.4 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,825 N, 2,492,242 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 34.0" Long 88° 2' 10.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 34	PUSH	0.5	TOPSOIL.										
			1.0	Black SANDY PEAT with trace crushed brick and sand (possible foundry sand), medium soft, moist.	PT			0.3						
			1.5											
			2.0											
			2.5											
			3.0	Black SILTY CLAY, medium soft, wet.	CL-ML		▼	0.3						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-17

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	NA	714.6 Feet MSL	718.1 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,865 N, 2,492,344 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 34.4"
Long 88° 2' 9.4"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
I GP	48 40	P U S H	0.5	TOPSOIL										
			1.0	Brown, well graded SILTY CLAY with orange and black streaks and some sand and gravel, stiff, dry.	CL-ML			0.0						
			1.5											
			2.0											
			2.5											
			3.0					0.0						Sample collected from (2-4') for BTEX and PAHs.
			3.5	Brown SILTY CLAY, medium soft, wet.	CL-ML		▼							
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-18

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	NA	Feet MSL	717.8 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,921 N, 2,492,401 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 34.9"
Long 88° 2' 8.6"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 32	P U S H	0.5	TOPSOIL										
				White, well graded GRAVEL (possible crushed concrete) with trace sand and clay, loose, dry.	GW									
			1.0	Light brown to white GRAVELLY CLAY with black mottling and trace sand, stiff, dry.				0.2						
			1.5											
			2.0											
			2.5		CLG									
			3.0					0.1						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-19

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	NA	714.1 Feet MSL	717.6 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,832 N, 2,492,475 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 34.0"
Long 88° 2' 7.7"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 35	PUSH	0.5	TOPSOIL										
			1.0	Brown SILTY CLAY with orange and black streaks and trace gravel, medium soft, moist.	CL-ML			0.1						
			1.5	Dark gray SILTY CLAY with black mottling and some peat, medium stiff, moist.										
			2.0											
			2.5		CL-ML									
			3.0					0.2						Sample collected from (2-4') for BTEX and PAHs.
			3.5	Dark tan SANDY CLAY, medium stiff, wet.	CLS		▼							
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-20

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	NA	Feet MSL	719.9 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,757 N, 2,492,399 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 33.3"
Long 88° 2' 8.7"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 42	PUSH	0.5	Light brown to white, well graded GRAVELLY SAND, loose, dry.	SWG			0.1						
			1.5	Brown SILTY CLAY with orange and black streaks and trace sand and gravel, stiff, dry.	CL-MI									
			2.5	CRUSHED CONCRETE.	CONCRETE									
			3.0	Brown SILTY CLAY with black streaks and trace sand and gravel, stiff, moist.	CL-MI			0.2						Sample collected from (2-4') for BTEX and PAHs.
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-21

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	NA	716.1 Feet MSL	719.6 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,691 N, 2,492,289 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 32.7" Long 88° 2' 10.2"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 39	P U S H	0.5	TOPSOIL.										
				Tan, well graded SANDY GRAVEL, loose, dry.	SWG									
			1.0	Brown SILTY CLAY with gray, black, and rust mottling and trace sand and gravel, stiff, moist.				1.6						Sample collected from (0-2') for BTEX and PAHs.
			1.5											
			2.0											
			2.5		CL-ML									
			3.0					0.6						
			3.5				▼							
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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
Steven Gilbert	The Sigma Group 1300 W Canal St Milwaukee, WI 53233	Fax: 414-643-4210

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-22

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	NA	720.4 Feet MSL	720.9 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,744 N, 2,492,163 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E

Lat 43° 10' 33.2"
Long 88° 2' 11.9"

Local Grid Location
☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 34	PUSH	0.5	TOPSOIL.			▼							
			1.0	Brown SILTY CLAY with dark brown and black mottling and trace organics, soft, wet.	CL-MI			0.3						
			1.5											
			2.0											
			2.5											
			3.0					0.4						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-23

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	NA	721.1 Feet MSL	723.1 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,575 N, 2,492,236 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 31.6" Long 88° 2' 11.0"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 42	PUSH	0.5	TOPSOIL.										
			1.0	Black SILTY CLAY with trace sand, stiff, moist.	CL-ML			1.0						Sample collected from (0-2') for BTEX and PAHs.
			1.5				▼							
			2.0	Black SILTY CLAY with gray and brown streaks and trace sand and gravel, medium stiff, wet.										
			2.5											
			3.0		CL-ML			0.6						
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-24

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	NA	716.7 Feet MSL	720.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,585 N, 2,492,393 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 31.6" Long 88° 2' 8.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 38	PUSH	0.5	TOPSOIL.										
			1.0	Dark brown SILTY CLAY with rust and black streaks, medium stiff, moist.	CL-ML			0.8						
			1.5											
			2.0											
			2.5											
			3.0				▼	0.6						Sample collected from (2-4') for BTEX and PAHs.
			3.5	Orangish brown, well graded SANDY SILT with trace clay and gravel, wet.	MLS									
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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Tel: 414-643-4200
Fax: 414-643-4210

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-25

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	NA	716.3 Feet MSL	719.3 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,670 N, 2,492,535 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 32.4"
Long 88° 2' 6.9"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 36	PUSH	0.5	TOPSOIL.										
			1.0	Tan, well graded GRAVELLY SAND, loose, dry.	SWG			1.0						
			1.5	Brown, well graded SANDY CLAY with black streaks and trace gravel, loose, dry.	CLS									
			2.0	Dark brown to black, well graded SAND (possible froundry sand) with trace gravel and clay, loose, dry.	SW									
			2.5											
			3.0	Black SILTY CLAY, medium stiff, wet.	CL-ML		▼	3.5						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-26

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	NA	716.8 Feet MSL	718.8 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,756 N, 2,492,575 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 33.3" Long 88° 2' 6.3"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 34	PUSH	0.5	TOPSOIL.										
				Tan, well graded GRAVELLY SAND, loose, dry.	SWG									
			1.0	Black, well graded SANDY CLAY with trace gravel and possible foundry sand, soft, moist.				0.8						
			1.5		CLS									
			2.0	Black PEAT with trace sand and clay, medium soft, wet.			▼							
			2.5											
			3.0		PT			0.9						Sample collected from (2-4') for BTEX and PAHs.
			3.5											
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-27

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	NA	728.8 Feet MSL	731.8 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,347 N, 2,492,270 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 29.3" Long 88° 2' 10.6"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 33	PUSH	0.5	TOPSOIL.										
			1.0	Tan, well graded GRAVELLY SAND, loose, dry.	SWG			1.0						
			1.5	Black to brown SILTY CLAY with white and rust patches and trace sand and gravel (possible froundry sand and metal slag), stiff, dry.	CL-ML									
			2.0											
			2.5											
			3.0	Black SILTY CLAY with trace sand, medium soft, wet.			▼	2.3						Sample collected from (2-4') for BTEX and PAHs.
			3.5		CL-ML									
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-28

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	NA	725.4 Feet MSL	728.4 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
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
Lat 43° 10' 29.7"
Long 88° 2' 8.4"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 35	PUSH	0.5	TOPSOIL with gravel.				0.4						
			1.0											
			1.5	Grayish brown, well graded GRAVELLY CLAY with some sand, stiff, dry.	CLG									
			2.0											
			2.5											
			3.0	Brown SILTY CLAY with black streaks and trace sand and gravel, stiff, wet.			▼	0.5						Sample collected from (2-4') for BTEX and PAHs.
			3.5		CL-ML									
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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 1300 W Canal St Milwaukee, WI 53233	Fax: 414-643-4210

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.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-29

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	NA	727.0 Feet MSL	730.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,255 N, 2,492,594 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 28.3" Long 88° 2' 6.2"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 36	PUSH	0.5	TOPSOIL with trace gravel.										
			1.0	Tan, well graded SAND, loose, dry.	SW			0.3						
			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.	CL-MI		▼	0.6						Sample collected from (2-4') for BTEX and PAHs.
			3.5	Black PEAT, soft, wet.	PT									
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moss American	02-41-529585	SCB-30

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	NA	720.8 Feet MSL	723.8 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 434,333 N, 2,492,847 E S/C/N
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat 43° 10' 29.0" Long 88° 2' 2.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241378280	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 29	PUSH	0.5	TOPSOIL.										
			1.0	Dark brown SILTY CLAY with trace sand and gravel, stiff, moist.	CL-ML			0.7						
			1.5											
			2.0											
			2.5	Tan, well graded GRAVELLY SAND with trace clay, stiff, moist.	SWG									
			3.0	Dark brown SILTY CLAY, stiff, wet.			▼	0.2						Sample collected from (2-4') for BTEX and PAHs.
			3.5		CL-ML									
			4.0	End of boring at 4' bgs. Borehole abandoned with hydrated bentonite chips to surface.										End of Boring.

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
Steven Kirchhoff	The Sigma Group 1300 W Canal St Milwaukee, WI 53233	Fax: 414-643-4210

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