

May 3, 2022

Project #18687

Mr. Lee Delcore
Hydrogeologist – Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1155 Pilgrim Rd, PO Box 408
Plymouth, WI 53073-0408

RE: Summary Report of Supplemental Site Investigation – PZ-03 Area
Moss American Superfund Site
8716 N. Granville Rd., Milwaukee, WI
BRRTS # 02-41-529585; FID # 241378280

Dear Mr. Delcore:

The Sigma Group, Inc. (Sigma) has prepared this report to document additional environmental investigation activities completed in the area of monitoring well PZ-03 at the Former Moss-American Facility located at 8716 N. Granville Road in Milwaukee, Wisconsin (hereinafter referred to as the “site”, refer to **Figure 1**). The activities were performed to further evaluate the relatively high groundwater impacts and free product identified in the vicinity of this well during post-remediation quarterly groundwater monitoring and the additional site investigation activities performed in 2021. The additional investigation activities were completed as described in the Scope of Work¹ submitted to the Wisconsin Department of Natural Resources (WDNR) on May 5, 2021.

BACKGROUND

The additional site investigation was warranted based on the results of the post-remediation groundwater monitoring conducted beginning in October 2019 and additional site investigation activities performed in 2021. Review of the quarterly groundwater monitoring data indicate that the contaminant concentrations within most of the monitoring wells are less than the laboratory limits of detection (LODs) or levels less than the Wisconsin Administrative Code (WAC) Chapter (ch.) NR 140 Enforcement Standards (ESs) or Preventive Action Limits (PALs). However, concentrations of naphthalene (a fingerprint constituent of creosote which was historically used at the site) were detected within samples from three monitoring wells (MW-33S, PZ-02, and PZ-03) at relatively high concentrations. Specifically, concentrations of naphthalene within monitoring well PZ-03 have been found to exceed the ch. NR 140 ES by a factor of 40 on several occasions. Concentrations of naphthalene within monitoring wells MW-33S and PZ-02 have also increased on several occasions and exceeded both the ch. NR 140 PAL and ES by a factor of two. The relatively high concentration of naphthalene in groundwater is an indication of the likely presence of creosote mass (free phase product) in the vicinity of these wells. In order to evaluate if free phase product was still present in the vicinity of these wells, additional investigation activities were performed in March 2021.

The additional site investigation activities included the advancement of 26 soil borings (GP-100 thru GP-125) including the collection and laboratory analysis of 39 soil samples for benzene, toluene,

¹ *Scope of Work for Supplemental Site Investigation- PZ-03 Area, Former Moss-American Facility, 8716 N. Granville Rd., Milwaukee, WI, FID # 241378280* by Sigma (dated May 5, 2021).

ethylbenzene, and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs), the installation of ten monitoring wells (PZ-03A thru PZ-03E, MW-33SA thru MW-33SC, PZ-02A, and PZ-02B), development of the new monitoring wells, and the collection of one round of groundwater samples from the new monitoring well network for laboratory analysis of BTEX and PAHs. The additional investigation activities were described in more detail in the Summary Report² submitted to the WDNR on May 5, 2021.

Results of the investigation in the vicinity of monitoring wells MW-33S and PZ-02 indicated groundwater contamination was limited in extent and that no free product was observed in the vicinity of these wells. Naphthalene impacts within soil were limited to four locations at concentrations slightly higher than the ch. NR 720 groundwater pathway Residual Contaminant Level (RCL). Detection of naphthalene impacts within groundwater were present at concentrations greater than the ch. NR 140 PAL and ES.

In contrast, results of the investigation in the vicinity of monitoring well PZ-03 indicated high concentrations of naphthalene in both soil and groundwater samples, and free phase product was observed at several boring locations. Elevated naphthalene impacts were identified in the approximate depth interval of 7.5 to 13 feet below ground surface (bgs) and the data correlated well with the presence of free product observed in the field; however, the lateral extent of this free product was not defined.

Sigma recommended the completion of supplemental site investigation activities to further define the degree and extent of subsurface soil and groundwater naphthalene impacts in the area and the lateral extent of free product.

INVESTIGATION ACTIVITIES

Soil Boring Installation – On January 20-21, 2022, a total of nine direct push soil borings were advanced with a track-mounted Geoprobe® hydraulic drill rig in the vicinity of monitoring well PZ-03, as shown on **Figure 2**. Initially eight soil borings were planned, but due to the presence of free product, an additional soil boring was completed in an attempt to define the extent of the free product area. Each soil boring was completed to a depth of approximately 15 feet bgs where a relatively tight clay layer was encountered. At each location the soil borings were sampled continuously, screened in the field for volatile vapors with a calibrated photo-ionization detector (PID) and visually inspected for oily sheen or free phase product.

Sample Collection – Soil samples were collected with a hydraulically driven 2.5-inch diameter by five-foot long MacroCore® sampler and described on the basis of color, texture, grain size, plasticity, presence of free product or oily sheen, and logged in general accordance with the Unified Soil Classification System (USCS). Samples were screened in the field with a calibrated PID to measure for the presence of volatile organic vapors. Soil classifications, descriptions, specific sampling intervals, and PID readings are presented on the soil boring logs (WDNR Form 4400-122) included in **Attachment 1**.

A total of 16 soil samples (two samples per boring with the exception of soil boring SGP-127) were containerized and submitted for laboratory analysis of BTEX and PAHs. Soil boring SGP-127 was not sampled due to the presence of free product. Soil boring SGP-128 was added to the south of SGP-127 and sampled to delineate the horizontal extent of free product. Additionally, the deeper sample from

² *Summary Report of Additional Site Investigation, Former Moss-American Facility, 8716 N. Granville Rd., Milwaukee, WI, FID # 241378280* by Sigma (dated May 5, 2021).

each soil boring was also submitted for laboratory analysis of diesel range organics (DRO) and gasoline range organics (GRO) to ensure all petroleum derived constituents are evaluated. Soil samples were placed in laboratory-supplied containers (BTEX and GRO samples were preserved with methanol; PAH and DRO samples do not require field preservation) and transported in coolers with ice to the project laboratory with a completed chain of custody (COC) document. For quality assurance / quality control (QA/QC) purposes, one methanol blank was transported with the cooler of soil samples and analyzed for BTEX to determine if volatile organic compound (VOC) contaminants infiltrated the samples during transportation.

Following advancement of the soil borings, and completion of sampling, the soil borings not selected for installation of monitoring wells were abandoned with hydrated bentonite chips to ground surface in accordance with ch. NR 141. The soil boring abandonment forms are included in **Attachment 2**.

Monitoring Well Installation – Three ch. NR 141-compliant monitoring wells PZ-03F, PZ-03G, and PZ-03H were installed in the vicinity of monitoring well PZ-03. The locations of the new monitoring wells were positioned based on the presence of free product encountered in the soil borings, other indications of impacts such as odor, PID screening data, and to complete the lateral delineation within the investigation area. Following completion of the Geoprobe soil borings, hollow stem augers (4 ¼-inch inside diameter with 8 ¼-inch outside diameter) were used to over drill the Geoprobe soil borings to a depth of approximately 15 feet bgs. Each monitoring well was constructed with a 10-foot length of two-inch diameter PVC screen (0.010-inch machine slotted) connected to an appropriate length of two-inch diameter PVC riser pipe. Each monitoring well was protected with a stickup steel protective casing. The monitoring well construction details are documented on WDNR form 4400-113A and included in **Attachment 3**.

Monitoring Well Development – The new monitoring wells were developed on January 31, 2022, in accordance with ch. NR 141 regulations to remove fine sediment from the bottom of the well casing and establish a hydraulic connection with the saturated soils surrounding the well screen. The well development activities are documented on the WDNR forms presented in **Attachment 4**.

Groundwater Sampling – The three new groundwater monitoring wells as well as the six existing wells in the vicinity of the PZ-03 monitoring well were sampled on February 1-2, 2022, for field parameters including water level, dissolved oxygen, oxidation-reduction (redox) potential, pH, temperature, turbidity, and specific conductance using a Solinst Water Level Indicator, a YSI Professional Plus Multiparameter meter, and a Hach 2100Q portable turbidimeter. The groundwater monitoring wells were then purged using disposable bailers (two-inch diameter wells) or a peristaltic pump (one-inch diameter well). Following the existing project protocols recommended in the October 2019 Quarterly Monitoring Report, each groundwater monitoring well was sampled approximately 24 hours after purging in order to minimize the possibility of drawing fine sediments into the samples. Samples were collected with disposable bailers at each well and the samples were submitted for laboratory analysis of BTEX (Environmental Protection Agency [EPA] Method 8260B), and PAHs (EPA Method M8270C). QA/QC samples included one duplicate sample collected at monitoring well PZ-03F and one equipment blank.

Survey – The soil boring and monitoring well locations and elevations were surveyed on January 21 and February 2, 2022, with a Trimble® R8 GPS unit. The elevation data was referenced to a local United States Geological Survey (USGS) datum in feet above mean sea level (MSL).

Investigative Waste Disposal – Four drums of soil investigative waste and 17 drums of groundwater investigative waste generated during the investigation activities were staged on site and picked up by Veolia, Inc. under the existing project contract on February 11, 2022, for disposal as hazardous waste. The investigative waste manifests are included in **Attachment 5**.

INVESTIGATION RESULTS

The following discussions of geology, hydrogeology, soil quality, and groundwater quality are based on the results of the additional investigation.

Geology – The soil conditions encountered during the investigation were consistent with historically reported soil conditions. Generally, the site surface consists of a layer of topsoil and / or gravelly clay ranging in depths of approximately three to six feet bgs. The remainder of the investigated depth ranged widely from silty clay to well graded sand. Traces of free phase product were observed in soil borings installed in the vicinity of monitoring well PZ-03 and at depths ranging from six to 10 feet bgs in soil borings GP-127 and GP-134. Soil classifications, descriptions, specific sampling intervals, and PID readings are presented on the soil boring logs (WNDR Form 4400-122) included in **Attachment 1**. A geologic cross section location map is included as **Figure 3** and geologic cross sections A-A' and B-B' are included as **Figure 4** and **Figure 5**, respectively.

Hydrogeology – Static water level elevations measured on February 1, 2022, ranged from 718.10 to 718.29 feet MSL in the vicinity of monitoring well PZ-03. The depth to groundwater ranged from 2.0 to 3.2 feet bgs in the vicinity of monitoring well PZ-03. The water level elevations are summarized in **Table 1**.

Free Product – The soil borings advanced in the vicinity of PZ-03 were inspected for visual signs of free product during soil boring advancement and sampling. Of the nine soil borings advanced in January 2022, free phase product was identified in soil borings GP-127 (from six to nine feet bgs) and GP-134 (from 9.75 to 10 feet bgs). Free product indicators including staining and petroleum odors were also noted in soil boring GP-130; however, no free phase product was observed. The vertical extent of free product is shown on the geologic cross sections included as **Figure 4** and **Figure 5** and the aerial extent of free product is shown on the soil quality map and groundwater quality map included as **Figure 6** and **Figure 7**, respectively. Photographs of soil samples including select soil samples with observed free product are included in **Attachment 6**.

The thickness of free product was measured on April 1, 2022, within the monitoring wells located near the monitoring well PZ-03. Free phase product was identified at the bottom of the water column in only one of the monitoring wells (PZ-03E) and strong petroleum odors were noted in monitoring well PZ-03H. No other obvious signs of free product were identified within the other sampled monitoring wells.

Groundwater *In-Situ* Measurements – Groundwater *in-situ* measurements including dissolved oxygen, oxidation-reduction potential (redox), pH, electrical conductivity, temperature, and turbidity were collected from all nine monitoring wells sampled in February 2022. The *in-situ* readings are summarized in **Table 2**.

Soil Quality Results – A total of 16 soil samples were submitted for laboratory analysis of BTEX and PAHs and eight soil samples were submitted for laboratory analysis of DRO and GRO. The analytical results are summarized in **Table 3**, and the soil analytical report is included in **Attachment 7**. The results are

compared to ch. NR 720 RCLs for the groundwater pathway, non-industrial direct contact, and industrial direct contact. The soil quality results for the new soil borings advanced in the vicinity of monitoring well PZ-03 are summarized in **Figure 6** and discussed below.

- BTEX: No BTEX compounds were detected within 14 of the 16 soil samples collected from PZ-03 area soil borings. The remaining two soil samples contained concentrations of toluene, ethylbenzene, and xylenes less than ch. NR 720 RCLs.
- PAHs: Select PAH compounds were reported in all but one of the 16 soil samples analyzed. Several PAH compounds were detected at moderate to high concentrations within five of the remaining 15 soil samples collected from the PZ-03 area. Of the detected PAH compounds, naphthalene was present within five of the 15 samples with the detected concentrations ranging from less than 1 milligram per kilogram (mg/kg) to 21.4 mg/kg. A positive correlation between the presence of free product observed during field screening and high naphthalene concentrations in soil samples is also evident.

Groundwater Quality Results – As part of the supplemental site investigation activities, one round of groundwater samples was collected from the three newly installed groundwater monitoring wells and the existing PZ-03 area monitoring wells and submitted for laboratory analysis of BTEX and PAHs. The results are summarized in **Table 4** and in **Figure 7**, and the groundwater laboratory analytical report is included in **Attachment 8**. The analytical results for BTEX were compared to ESs and PALs in both ch. NR 140 and the EPA Record of Decision (ROD) for the site are discussed below.

- BTEX: Benzene was detected at concentrations greater than its EPA ROD and ch. NR 140 ES within monitoring well PZ-03E. Benzene was detected at a concentration greater than its EPA ROD PAL and less than its ch. NR 140 PAL within monitoring well PZ-03H. Benzene was not detected within the remaining monitoring wells. Ethylbenzene, toluene, and xylenes were detected in select monitoring wells but at concentrations less than their respective ROD and ch. NR 140 PALs.
- PAHs: Several PAH compounds were detected within each of the groundwater samples collected from the monitoring wells at concentrations greater than laboratory limits of detection (LODs). Select PAHs were reported at concentrations above ch. NR 140 ESs and / or PALs within seven of the nine monitoring wells sampled. Naphthalene was reported at concentrations above its ch. NR 140 ES within monitoring wells PZ-03B, PZ-03D, PZ-03E, and PZ-03H. The detected concentrations of naphthalene range between 0.193 µg/L and 3,500 µg/L. The highest concentration of naphthalene (3,500 micrograms per liter [ug/L]) was detected at PZ-03E where free product was also identified. Similarly, relatively high concentrations were detected at PZ-03H (900 ug/L) where the presence of free product was observed in soil samples. The groundwater quality data appears to correlate well with soil quality data and free product observations.

SUMMARY AND CONCLUSIONS

In 2021 and 2022, a total of 35 soil borings (GP-100 thru GP-134) were advanced and a total of 13 monitoring wells (PZ-03A thru PZ-03H, MW-33SA thru MW-33SC, PZ-02A, and PZ-02B) were installed in the vicinity of MW-33S, PZ-02, and PZ-03 to investigate the source and extent of elevated naphthalene impacts identified in groundwater samples collected from MW-33S, PZ-02, and PZ-03. A total of 70 soil

samples were collected and submitted from the soil borings for laboratory analysis of BTEX and PAHs while one to two rounds of groundwater samples were collected from the newly installed monitoring wells and submitted for laboratory analysis of BTEX and PAHs. The following sections present a summary of the investigation results:

MW-33S and PZ-02

- Results of the investigation in the vicinity of monitoring wells MW-33S and PZ-02 indicate groundwater impacts are limited in extent and that no free product was observed.
- Naphthalene impacts within soil are limited to four locations at concentrations slightly higher than the ch. NR 720 groundwater pathway RCL.
- Although naphthalene impacts within groundwater were identified at concentrations greater than the ch. NR 140 PAL and ES in the vicinity of monitoring wells MW-33S and PZ-02, the detected concentrations do not indicate the presence of free phase creosote in the subsurface.

PZ-03 Area

- Results of the additional site investigation activities conducted in the vicinity of PZ-03 identified two zones of relatively high naphthalene impacted soil which roughly correlate with two areas of free phase product identified in the soil (**Figure 4, Figure 5, and Figure 6**).
- One of the free product areas is located to the west and south of PZ-03 and includes soil borings GP-104, GP-106, GP-107, GP-111, GP-113, GP-114, and GP-127.
- The second area is located to the northwest of PZ-03 and includes soil boring GP-134.
- Detection of naphthalene within soil in the southern area are greater than other areas evaluated with the highest concentration of 1,230 mg/kg and free product at depths of six to 13 feet bgs.
- The greatest naphthalene concentration in the northern investigation area was 21.4 mg/kg and free product was only present at depths of 9.75 to 10 feet bgs.
- Review of the groundwater quality data collected at monitoring well PZ-03 since 2013 confirms the presence of relatively high concentrations of naphthalene in the subsurface at this location.
- Although the latest sampling data indicates a decrease in naphthalene concentration from 4,000 µg/L to less than 10 µg/L, the results are not likely a true representation of the subsurface condition within monitoring well PZ-03. Considering free phase creosote product is heavier than water and accumulates at the bottom of the well, it is suspected that groundwater samples typically collected from the mid-screen depth (typical procedure for groundwater monitoring) may not have captured the product, if present in the well.
- In the most recent rounds of groundwater sampling, naphthalene concentrations within monitoring wells PZ-03B, PZ-03D, PZ-03E, and PZ-03H were greater than in PZ-03 with the highest concentration (4,100 µg/L) reported in PZ-03E.
- Relatively high groundwater naphthalene concentrations correlate well with high soil quality impacts as well as the presence of free product.
- The degree and extent of groundwater naphthalene impacts in the vicinity of monitoring well PZ-03 is well defined in all directions as presented in **Figure 7**.

In conclusion, based on a review of the historical groundwater quality data and the recently collected soil data, the presence of free product in the subsurface appears to be limited to two isolated areas:

- In the vicinity of monitoring well PZ-03H as documented in the soil sample and strong petroleum odor observed during groundwater sampling.

- Measurable free product at PZ-03E and relatively high concentrations of naphthalene in groundwater samples.

Due to the high concentrations of naphthalene identified in the vicinity of monitoring well PZ-03 and the presence of free product was observed, active remedial measures would be required to meet the conditions of the EPA ROD. A Remedial Action Options Matrix is prepared and included as **Table 5**.

Pending your review, the information included in the report and the potential remedial options discussed in the attached options matrix (**Table 5**) please give us a call to discuss the investigation results and potential remedial options to address the limited free product are at the site.

Sincerely,

THE SIGMA GROUP, INC.



Steven Kikkert, P.E.
Staff Engineer



Mafizul Islam, P.E.
Senior Project Manager

Enclosures:

Table 1 – Water Level Elevations
Table 2 – Groundwater *In-Situ* Measurements
Table 3 – Soil Analytical Results
Table 4 – Groundwater Analytical Results
Table 5 – Remedial Action Options Matrix

Figure 1 – Site Location Map
Figure 2 – Borehole Location Map
Figure 3 – Geologic Cross Section Location Map
Figure 4 – Geologic Cross Section A-A'
Figure 5 – Geologic Cross Section B-B'
Figure 6 – Soil Quality Map
Figure 7 – Groundwater Quality Map

Attachment 1 – Soil Boring Logs
Attachment 2 – Borehole Abandonment Forms
Attachment 3 – Groundwater Monitoring Well Construction Forms
Attachment 4 – Monitoring Well Development Forms
Attachment 5 – Investigative Waste Disposal Manifests
Attachment 6 – Free Product Photographs
Attachment 7 – Soil Laboratory Analytical Report
Attachment 8 – Groundwater Laboratory Analytical Report

TABLES

Table 1
Water Level Elevations - PZ-03 Area Investigation
Moss American - 8716 N. Granville Road, Milwaukee, Wisconsin
Sigma Project No. 18687

PZ-03							
Ground Elev.:		719.1 (feet MSL)		Screen Interval: 1.4 to 11.4 (feet bgs)			
TOC Elev.:		722.50 (feet MSL)		717.6 to 707.6 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
4/4/13	4.60	14.85	10.25	---	717.90	1.2	
10/8/19	4.65	14.61	9.96	0.05	717.85	1.2	Good recovery.
1/8/20	4.57	14.61	10.04	-0.08	717.93	1.2	Duplicate #2
3/31/20	4.54	14.60	10.06	-0.03	717.96	1.1	Good recovery, dup #2.
7/13/20	5.88	14.68	8.80	1.34	716.62	2.5	Good recovery, dup #4.
10/8/20	5.72	14.66	8.94	-0.16	716.78	2.3	Good recovery, dup #4.
1/8/21	4.99	14.65	9.66	-0.73	717.51	1.6	Good recovery.
4/1/21	4.48	14.65	10.17	-0.51	718.02	1.1	Good recovery.
2/1/22	6.31	14.94	8.63	1.83	716.19	2.9	Good recovery.

PZ-03A							
Ground Elev.:		718.7 (feet MSL)		Screen Interval: 5.2 to 15.2 (feet bgs)			
TOC Elev.:		721.26 (feet MSL)		713.5 to 703.5 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
3/9/21	2.65	17.74	15.09	---	718.61	0.1	Well development.
3/11/21	2.81	17.74	14.93	0.16	718.45	0.2	Good recovery, no odor
2/1/22	5.03	17.60	12.57	2.22	716.23	2.4	Turbid, petroleum odor, good recovery.

PZ-03B							
Ground Elev.:		719.2 (feet MSL)		Screen Interval: 5.1 to 15.1 (feet bgs)			
TOC Elev.:		721.90 (feet MSL)		714.1 to 704.1 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
3/9/21	3.22	17.84	14.62	---	718.68	0.5	Well development.
3/11/21	3.41	17.84	14.43	0.19	718.49	0.7	Good recovery, no odor
2/1/22	5.65	17.83	12.18	2.24	716.25	2.9	Turbid, petroleum odor, good recovery.

PZ-03C							
Ground Elev.:		719.2 (feet MSL)		Screen Interval: 4.7 to 14.7 (feet bgs)			
TOC Elev.:		721.75 (feet MSL)		714.5 to 704.5 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
3/8/21	3.05	17.26	14.21	---	718.70	0.5	Well development.
3/11/21	3.18	17.26	14.08	0.13	718.57	0.7	Good recovery, no odor
2/1/22	5.47	17.28	11.81	2.29	716.28	2.9	Turbid, petroleum odor, good recovery.

PZ-03D							
Ground Elev.:		719.0 (feet MSL)		Screen Interval: 5.0 to 15.0 (feet bgs)			
TOC Elev.:		721.37 (feet MSL)		714.0 to 704.0 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
3/8/21	2.58	17.38	14.80	---	718.79	0.2	Well development.
3/11/21	2.74	17.38	14.64	0.16	718.63	0.3	Good recovery, petroleum odor
2/1/22	5.08	17.41	12.33	2.34	716.29	2.7	Good recovery.

PZ-03E							
Ground Elev.:		719.0 (feet MSL)		Screen Interval: 4.7 to 14.7 (feet bgs)			
TOC Elev.:		721.27 (feet MSL)		714.3 to 704.3 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
3/9/21	2.62	16.95	14.33	---	718.65	0.4	Well development.
3/11/21	2.81	16.95	14.14	0.19	718.46	0.6	Good recovery, petroleum odor
2/1/22	5.06	17.29	12.23	2.25	716.21	2.8	Product presence, good recovery.

PZ-03F							
Ground Elev.:		718.4 (feet MSL)		Screen Interval: 5.5 to 15.5 (feet bgs)			
TOC Elev.:		720.69 (feet MSL)		712.9 to 702.9 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
1/21/22	4.49	17.82	13.33	---	716.20	2.1	Well installation.
1/31/22	4.59	17.63	13.04	0.10	716.10	2.2	Well development.
2/1/22	4.41	17.38	12.97	-0.18	716.28	2.1	Good recovery.

PZ-03G							
Ground Elev.:		718.2 (feet MSL)		Screen Interval: 5.5 to 15.5 (feet bgs)			
TOC Elev.:		720.53 (feet MSL)		712.7 to 702.7 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
1/21/22	4.11	17.84	13.73	---	716.42	1.8	Well installation.
1/31/22	4.41	17.75	13.34	0.30	716.12	2.1	Well development.
2/1/22	4.28	17.79	13.51	-0.13	716.25	2.0	Good recovery.

PZ-03H							
Ground Elev.:		719.3 (feet MSL)		Screen Interval: 5.5 to 15.5 (feet bgs)			
TOC Elev.:		721.60 (feet MSL)		713.8 to 703.8 (feet MSL)			
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
1/21/22	5.43	17.79	12.36	---	716.17	3.1	Well installation.
1/31/22	5.63	17.63	12.00	0.20	715.97	3.3	Well development.
2/1/22	5.50	17.55	12.05	-0.13	716.10	3.2	Good recovery, petroleum odor.

Notes:

1. All monitoring wells surveyed by The Sigma Group, Inc. on March 2 & 3, 2021 with Trimble GPS receiver.
2. feet MSL = feet above Mean Sea Level
3. feet bgs = feet below ground surface
4. feet TOC = feet below top of casing

Data entered / updated by: SVK Date: 3/17/2022
 Data checked by: DBC Date: 3/20/2022

Table 2
Groundwater *In Situ* Measurements
Moss American - 8716 N. Granville Road, Milwaukee, Wisconsin
Sigma Project No. 18687

Well Identification	Date	In Situ Measurements							
		Dissolved Oxygen (mg/L)	Redox Potential (mV)	pH (S.U.)	Conductivity (mS/cm)	Temperature (°C)	Turbidity (NTU)	Specific Conductance (mmhos/cm)	Ferrous Iron (mg/L)
PZ-03	9/29/10	NS	NS	NS	NS	NS	NS	NS	NS
	4/4/13	0.95	-20.0	7.20	NS	6.8	NA	NA	4.0
	10/8/19	2.84	342.6	6.93	1.70	16.5	172.0	2.028	3.4
	1/8/20	0.86	117.6	7.00	0.99	6.8	86.7	1.518	2.4
	3/31/20	3.20	252.7	7.16	0.46	5.0	66.0	0.746	2.4
	7/13/20	2.25	135.2	7.18	1.04	16.1	77.9	1.253	4.8
	10/8/20	0.15	-176.1	6.93	1.04	16.5	14.9	1.242	1.4
	1/8/21	0.38	-132.3	7.44	0.61	5.3	33.3	0.978	1.0
	4/1/21	0.53	92.6	7.53	0.61	8.2	18.9	0.898	3.6
	2/2/22	0.37	-90.4	7.16	0.65	3.7	9.5	1.10	0.0
PZ-03A	3/11/21	1.68	157.7	6.92	0.69	7.0	too turbid	1.052	0.0
	2/2/22	0.70	-83.2	7.30	0.58	4.1	41.7	0.965	NA
PZ-03B	3/11/21	1.38	173.8	6.93	0.71	7.1	too turbid	1.079	0.8
	2/2/22	1.23	-95.6	7.46	0.65	4.4	62.6	1.072	NA
PZ-03C	3/11/21	0.98	157.5	6.93	0.79	8.3	too turbid	1.160	0.8
	2/2/22	0.46	-55.7	6.95	0.76	7.3	91.2	1.148	NA
PZ-03D	3/11/21	1.22	139.2	6.87	0.75	9.0	too turbid	1.080	1.2
	2/2/22	0.65	-35.9	7.00	0.69	7.1	12.0	1.048	NA
PZ-03E	3/11/21	1.33	137.7	7.03	0.64	7.3	too turbid	0.967	0.0
	2/2/22	NA	NA	NA	NA	NA	NA	NA	NA
PZ-03F	2/2/22	0.49	-40.9	7.19	0.59	4.0	13.8	0.985	NA
PZ-03G	2/2/22	0.88	-55.2	7.18	0.63	4.0	12.8	1.052	NA
PZ-03H	2/2/22	NA	NA	NA	NA	NA	20.6	NA	0.0

Notes:

1. ° C = degrees Celcius
2. mg/L = milligrams per liter (equivalent to parts per million, ppm)
3. mV = millivolts
4. NA = not analyzed

Data entered / updated by: SVK
 Data checked by: DBC

Date: 2/11/2022
 Date: 3/2/2022

Table 3
Soil Analytical Results - PZ-03 Area Investigation
Moss American - 8716 N. Granville Road, Milwaukee, Wisconsin
Sigma Project No. 18687

Soil Sample Location:		GP-126		GP-128		GP-129		GP-130		GP-131		GP-132		GP-133		GP-134		Groundwater Pathway RCL ⁴	Non-Industrial Direct Contact RCL ⁵	Industrial Direct Contact RCL ⁶
Monitoring Well (if applicable):		--		--		--		PZ-03F		--		--		PZ-03G		PZ-03H				
Sample Collection Date:		1/20/22		1/20/22		1/20/22		1/20/22		1/20/22		1/20/22		1/20/22		1/20/22				
Sample Depth (feet bgs):		2-4	10-12	2-4	6-8	8-10	12-14	8-10	10-12	2-4	8-10	0-2	10-12	4-6	10-12	4-6	10-12			
Depth to Groundwater (feet bgs):		0.7		0.7		0.7		0.7		0.7		0.7		0.7		0.7				
Free Product:		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	FP			
Unsat (U) or Saturated (S):		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
Photoionization Detector	ppm	1.5	0.5	0.6	1.1	2.9	2.0	1.8	2.0	2.5	1.8	7.4	2.3	1.4	1.6	2.2	13.0	NS	NS	NS
Gasoline Range Organics	mg/kg	NA	<10	NA	<10	NA	15.1	NA	<10	NA	<10	NA	NA	NA	<10	NA	NA	NS	NS	NS
Diesel Range Organics	mg/kg	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	NA	NA	<10	NA	NA	NS	NS	NS
VOCs																				
Benzene	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0051	1.6	7.07
Ethylbenzene	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.044 J	1.57	8.02	35.4
Toluene	mg/kg	<0.025	<0.025	0.033 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.1072	818	818
Xylenes (total)	mg/kg	<0.075	<0.075	0.099 J	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	0.047 J	3.96	260	260
PAHs																				
Acenaphthene	mg/kg	<0.011	<0.011	1.58	0.088	<0.011	4.60	<0.011	0.048	<0.011	2.02	<0.011	0.0232 J	<0.011	<0.011	0.34	33.0	NS	3,590	45,200
Acenaphthylene	mg/kg	0.0303 J	<0.009	19.2	0.09	<0.009	0.05 J	0.0097 J	<0.009	0.0189 J	0.052	<0.009	<0.009	<0.009	<0.009	0.131	0.34 J	NS	NS	NS
Anthracene	mg/kg	0.05	0.0241 J	49.0	0.044	<0.0071	1.55	0.0196 J	0.0116 J	0.04	0.52	0.0081 J	0.0124 J	<0.0071	0.0123 J	0.295	8.80	196.9492	17,900	100,000
Benzo(a)anthracene	mg/kg	0.0243 J	0.0305 J	[10.2]	<0.0139	<0.0139	0.69	0.047 J	0.0261 J	0.043 J	0.55	<0.0139	0.053 J	<0.0139	0.0263 J	0.132	[4.70]	NS	1.14	20.8
Benzo(a)pyrene	mg/kg	0.043 J	0.0258 J	{ 33.0 }	0.045 J	<0.0143	[0.213]	0.036 J	<0.0143	0.035 J	[0.33]	<0.0143	0.0195 J	<0.0143	0.0155 J	[0.70]	[1.26]	0.47	0.115	2.11
Benzo(b)fluoranthene	mg/kg	0.067	0.047	{ 44.0 }	0.0081 J	<0.008	0.34	0.056	0.0212 J	0.069	0.50	0.0142 J	0.035	<0.008	0.0228 J	0.51	[2.00]	0.4781	1.15	21.1
Benzo(ghi)perylene	mg/kg	0.057	0.0174 J	78.0	0.036 J	<0.0125	0.071 J	0.04 J	<0.0125	0.076	0.205	0.0146 J	<0.0125	<0.0125	0.018 J	0.71	0.38 J	NS	NS	NS
Benzo(k)fluoranthene	mg/kg	0.027 J	0.0261 J	5.30	<0.0076	<0.0076	0.155	0.0197 J	0.0093 J	0.03	0.162	<0.0076	0.0154 J	<0.0076	0.012 J	0.108	0.96	NS	11.5	211
Chrysene	mg/kg	0.0303 J	0.058	8.40	<0.0124	<0.0124	0.73	0.049 J	0.02 J	0.059	0.56	<0.0124	0.055	<0.0124	0.0205 J	0.162	4.50	0.1442	115	2,110
Dibenzo(a,h)anthracene	mg/kg	<0.0136	<0.0136	{ 12.0 }	<0.0136	<0.0136	<0.0272	<0.0136	<0.0136	<0.0136	0.039 J	<0.0136	<0.0136	<0.0136	<0.0136	[0.119]	<0.272	NS	0.115	2.11
Fluoranthene	mg/kg	0.064	0.146	23.3	0.0083 J	0.0198 J	4.40	0.171	0.091	0.081	3.13	0.0142 J	0.128	<0.008	0.062	0.35	32.0	88.8778	2,390	30,100
Fluorene	mg/kg	<0.0091	<0.0091	2.07	0.083	<0.0091	3.60	<0.0091	0.0275 J	<0.0091	1.41	<0.0091	0.0176 J	<0.0091	<0.0091	0.199	28.7	14.8299	2,390	30,100
Indeno(1,2,3-cd)pyrene	mg/kg	0.06	0.0217 J	{ 91.0 }	0.034 J	<0.0152	0.102 J	0.048 J	<0.0152	0.073	0.262	<0.0152	<0.0152	<0.0152	0.0186 J	0.89	0.50 J	NS	1.15	21.1
1-Methylnaphthalene	mg/kg	0.0134 J	<0.0118	1.13	0.0302 J	<0.0118	1.39	<0.0118	<0.0118	<0.0118	0.031 J	<0.0118	<0.0118	<0.0118	<0.0118	0.125	12.3	NS	17.6	72.7
2-Methylnaphthalene	mg/kg	<0.0186	<0.0186	2.29	<0.0186	<0.0186	2.55	<0.0186	<0.0186	<0.0186	0.0231 J	<0.0186	<0.0186	<0.0186	<0.0186	0.192	14.2	NS	239	3,010
Naphthalene	mg/kg	<0.0201	<0.0201	[6.70]	<0.0201	<0.0201	4.50	<0.0201	<0.0201	<0.0201	0.061 J	<0.0201	<0.0201	<0.0201	<0.0201	0.86	[21.4]	0.6582	5.52	24.1
Phenanthrene	mg/kg	0.042	0.0135 J	18.4	0.0303 J	<0.0089	9.00	0.0151 J	0.0256 J	0.044	0.309	0.0107 J	0.033 J	<0.0089	<0.0089	0.315	76.0	NS	NS	NS
Pyrene	mg/kg	0.055	0.115	19.5	0.0249 J	0.0256 J	3.00	0.131	0.073	0.083	2.15	0.0117 J	0.111	<0.007	0.067	0.299	21.6	54.5455	1,790	22,600

Notes:

- Unsaturation/smear zone versus saturated soil conditions based on soil moisture conditions recorded on soil boring logs during drilling.
- Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
- NA = not analyzed NS = no standard established
- 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.
- 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.
- 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.
- Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
- Methanol blank results: 03/01/2021: All VOCs reported below laboratory detection limits.
01/20/2022: All VOCs reported below laboratory detection limits.
- Exceedances: **BOLD** = Concentration exceeds Groundwater Pathway RCL
[] = Concentration exceeds Non-Industrial Direct Contact RCL (any depth)
{ } = Concentration exceeds Industrial Direct Contact RCL (any depth)
- "FP" indicated if free product was visually identified within soil samples

Data entered / updated by: SJB

Data checked by: SVK

Date: 2/7/2022

Date: 2/28/2022

Table 4
Groundwater Analytical Results - PZ-03 Area Investigation
Moss American - 8716 N. Granville Road, Milwaukee, Wisconsin
Sigma Project No. 18687

Well Location: Date: Water Elevation* (feet MSL):	PZ-03														PZ-03A		PZ-03B		PZ-03C		PZ-03D			PZ-03E		PZ-03F		PZ-03G	PZ-03H	EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL					
	4/4/13	10/9/19	1/8/20	3/31/20		7/14/20		10/9/20		10/29/20		1/8/21	4/2/21	2/2/22	3/12/21	2/2/22	3/12/21	2/2/22	3/12/21	2/2/22	3/12/21	2/2/22	3/12/21	2/2/22	2/2/22	2/2/22	2/2/22	2/2/22										
	717.49*	717.64*	717.72*	DUP #2	717.75*	DUP #2	716.41	DUP #4	716.57	DUP #4	Synergy	Pace	717.30	717.81*	716.19	716.26*	716.23*	718.32*	716.25*	718.42*	716.28*	718.45*	DUP	716.29*	718.38*	716.21*	716.28*	DUP	716.25*	716.10*								
BTEX																																						
Benzene	µg/L	[0.44 J]	[(2.02 J)]	[(1.45 J)]	[(1.38 J)]	[(2.31 J)]	[(2.27 J)]	[(1.33 J)]	[(1.14 J)]	[(1.27 J)]	[(1.11 J)]	NA	NA	<0.33	<0.38	<0.38	<0.37	<0.38	[(0.95 J)]	<0.38	<0.37	<0.38	[0.43 J]	[(0.55 J)]	<0.38	[(1.68 J)]	[(2.35 J)]	<0.38	<0.38	<0.38	<0.38	[0.44 J]	0.67	0.067	5	0.5		
Ethylbenzene	µg/L	2.68	10.7	54	53	61	60	42	37	1.53	1.39	NA	NA	0.8 J	0.75 J	<0.37	<0.41	<0.37	7.4	<0.37	0.76 J	<0.37	2.18	2.14	0.50 J	60	53	<0.37	<0.37	<0.37	<0.37	4.4	1360.0	272.0	700	140		
Toluene	µg/L	1.92 J	34.1	68.9	68.3	86	84.5	56.5	48.9	20.4	19.7	NA	NA	4.15	2.01 J	<0.42	0.58 J	<0.42	0.54 J	<0.42	1.08 J	<0.42	0.98 J	0.53 J	<0.42	5.1	9.3	<0.42	<0.42	<0.42	<0.42	343.0	68.6	800	160			
Xylenes, Total	µg/L	<0.8	1.01	1.36	1.37	2.09	2.21	1.2	1.27	0.47 J	0.61 J	NA	NA	<0.26	<0.42	<1.21	<1.49	<1.21	19.1	4.74 J	2.87 J	<1.21	5.91	5.61	1.69 J	85.8	93	<1.21	<1.21	<1.21	<1.21	5.95 J	620.0	124.0	2,000	400		
PAHs																																						
Acenaphthene	µg/L	116.0	154	350	NA	316	350	291	320	131	171	191	149	870	56	53.0	15.8	22.3	147	98.0	205	67.0	269	293	64.0	680	590	0.38	NA	0.25	314	NS	NS	NS	NS			
Acenaphthylene	µg/L	0.99 J	<4.68	<9.36	NA	<31.2	<31.2	<15.6	<7.8	5.7	7.1	<7.8	1.2 J	0.81 J	0.61	0.52 J	0.11	0.13 J	0.92 J	<0.78	1.19 J	0.71	3.30 J	4.50 J	<3.12	<7.80	<7.80	0.039 J	NA	<0.0156	<3.12	NS	NS	NS	NS			
Anthracene	µg/L	2.37	<4.5	<9	NA	<30	<30	<15	<7.5	0.64 J	<0.75	<7.5	<2.1	1.27 J	0.49	0.65 J	0.85	0.42	3.04	0.99 J	20.9	8.30	20.3	34	8.00 J	82.0	69.0	0.058	NA	0.041 J	16.6	NS	NS	3,000	600			
Benzo(a)anthracene	µg/L	2.03	<3.93	<12	NA	<40	<40	<20	<10	1.28 J	<1	<10	<1.5	<1	<0.2	<0.40	0.245	0.172 J	<1.00	<1.00	1.49 J	0.37 J	<4.00	7.90 J	<4.00	27.7 J	24.9 J	0.0289 J	NA	<0.02	<4.00	NS	NS	NS	NS			
Benzo(a)pyrene	µg/L	0.71 J	<5.01	<10.02	NA	<33.4	<33.4	<16.7	<8.35	0.38 J	<0.835	<8.35	<2.1	<0.835	<0.167	<0.334	0.082 J	0.171 J	<0.835	<0.835	<0.835	<0.167	<3.34	4.00 J	<3.34	<8.35	<8.35	<0.0167	NA	<0.0167	<3.34	NS	NS	NS	0.2	0.02		
Benzo(b)fluoranthene	µg/L	1.45	<4.8	<9.6	NA	<32	<32	<16	<8	1.22	<0.8	<8	<1.1	<0.8	<0.16	<0.32	0.134	0.16 J	<0.80	<0.80	<0.80	<0.16	<3.20	6.90 J	<3.20	10.9 J	8.90 J	<0.016	NA	<0.016	<3.20	NS	NS	0.2	0.02			
Benzo(ghi)perylene	µg/L	<0.46	<4.26	<8.52	NA	<28.4	<28.4	<14.2	<7.1	0.49 J	<0.71	<7.1	<1.4	<0.71	<0.142	<0.284	0.037 J	0.215 J	<0.71	<0.71	<0.71	<0.142	<2.84	4.60 J	<2.84	<7.10	<7.10	<0.0142	NA	<0.0142	3.03 J	NS	NS	NS	NS			
Benzo(k)fluoranthene	µg/L	<0.54	<4.38	<8.76	NA	<29.2	<29.2	<14.6	<7.3	0.7 J	<0.73	<7.3	<1.5	<0.73	<0.146	<0.292	0.047 J	0.152 J	<0.73	<0.73	<0.73	<0.146	<2.92	6.80 J	<2.92	<7.30	<7.30	<0.0146	NA	<0.0146	<2.92	NS	NS	NS	NS			
Chrysene	µg/L	1.47	<4.71	<9.42	NA	<31.4	<31.4	<15.7	<7.85	0.85 J	<0.785	<7.85	<2.6	<0.785	<0.157	<0.314	0.219	0.128 J	<0.785	<0.785	1.18 J	0.34 J	<3.14	10.1	<3.14	25.1	18.9 J	0.0229 J	NA	<0.0157	<3.14	NS	NS	0.2	0.02			
Dibenzo(a,h)anthracene	µg/L	<0.46	<5.19	<10.38	NA	<34.6	<34.6	<17.3	<8.65	<0.346	<0.865	<8.65	<2	<0.865	<0.173	<0.346	<0.0346	0.178 J	<0.865	<0.865	<0.865	<0.173	<3.46	<3.46	<3.46	<8.65	<8.65	<0.0173	NA	<0.0173	<3.46	NS	NS	NS	NS			
Fluoranthene	µg/L	10.7	<2.64	<5.28	NA	<17.6	<17.6	<8.8	<4.4	1.64	<0.44	<4.4	<2.1	<0.44	0.43	0.53 J	2.03	0.47	6.90	1.58	20.5	8.80	21.6	49.0	9.30	188	147	0.26	NA	0.116	11.3	NS	NS	400	80			
Fluorene	µg/L	33	57	110	NA	102	115	121	116	34	48	62	44.9	29.6	18.5	19.9	4.90	5.10	28.9	17.1	121	46.0	136	160	41.0	320	316	0.106	NA	0.065	156	NS	NS	400	80			
Indeno(1,2,3-cd)pyrene	µg/L	<0.54	<3.63	<7.26	NA	<24.2	<24.2	<12.1	<6.05	0.48 J	<0.605	<6.05	<3.5	<0.605	<0.121	<0.242	0.034 J	0.18 J	<0.605	<0.605	<0.605	<0.121	<2.42	5.00 J	<2.42	<6.05	<6.05	<0.0121	NA	<0.0121	<2.42	NS	NS	NS	NS			
1-Methylnaphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.1	0.67	<9.55	28.4	45.0	110	24.5	158	175	29.2	380	350	0.084	NA	0.069	248	NS	NS	NS	NS			
2-Methylnaphthalene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.372	<0.0372	<0.093	<0.93	<0.93	190	24.5	225	243	12.4	380	490	0.058 J	NA	0.054 J	151	NS	NS	NS	NS			
Naphthalene	µg/L	47.0	1620	4000	NA	3600	3800	3010	3150	4.9	9.4	1680	1310	360	13.3	4.30	0.90	<0.15	113	148	121	9.00	1090	1190	172	4100	3500	0.193	NA	0.212	990	NS	NS	100	10			
Phenanthrene	µg/L	1.87	11 J	37	NA	45 J	51 J	43 J	44	3.7	0.9 J	19.3 J	12.8 J	6.6	2.7	2.77	1.98	0.313	5.60	1.68 J	157	63.0	158	218	58.0	560	490	0.033 J	NA	0.036 J	138	NS	NS	NS	NS			
Pyrene	µg/L	7.1	<3.63	<7.26	NA	<24.2	<24.2	<12.1	<6.05	1.9	<0.605	<6.05	<1.5	<0.605	0.277 J	0.4 J	1.33	0.32	4.00	0.95 J	12.4	5.10	12.5	32.0	5.40 J	128	99.0	0.191	NA	0.096	6.20 J	NS	NS	250	50			

- Notes:
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
3. NS = no standard
NA = Not Analyzed
4. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
5. Laboratory flags:
*J = Analyte detected between Limit of Detection and Limit of Quantitation.
6. Trip blank results: 03/12/2021: All VOCs reported below laboratory detection limits.
7. Equipment blank results: 03/12/2021: All VOCs reported below laboratory detection limits.
02/02/2021: All VOCs reported below laboratory detection limits.
8. Detections = Analyte detected
9. Exceedances
BOLD = Concentration exceeds NR 140 ES
ITALICS = Concentration exceeds NR 140 PAL
{ } = Concentration exceeds EPA ROD ES
[] = Concentration exceeds EPA ROD PAL
10. Special notes: * = monitoring well screen submerged below water table

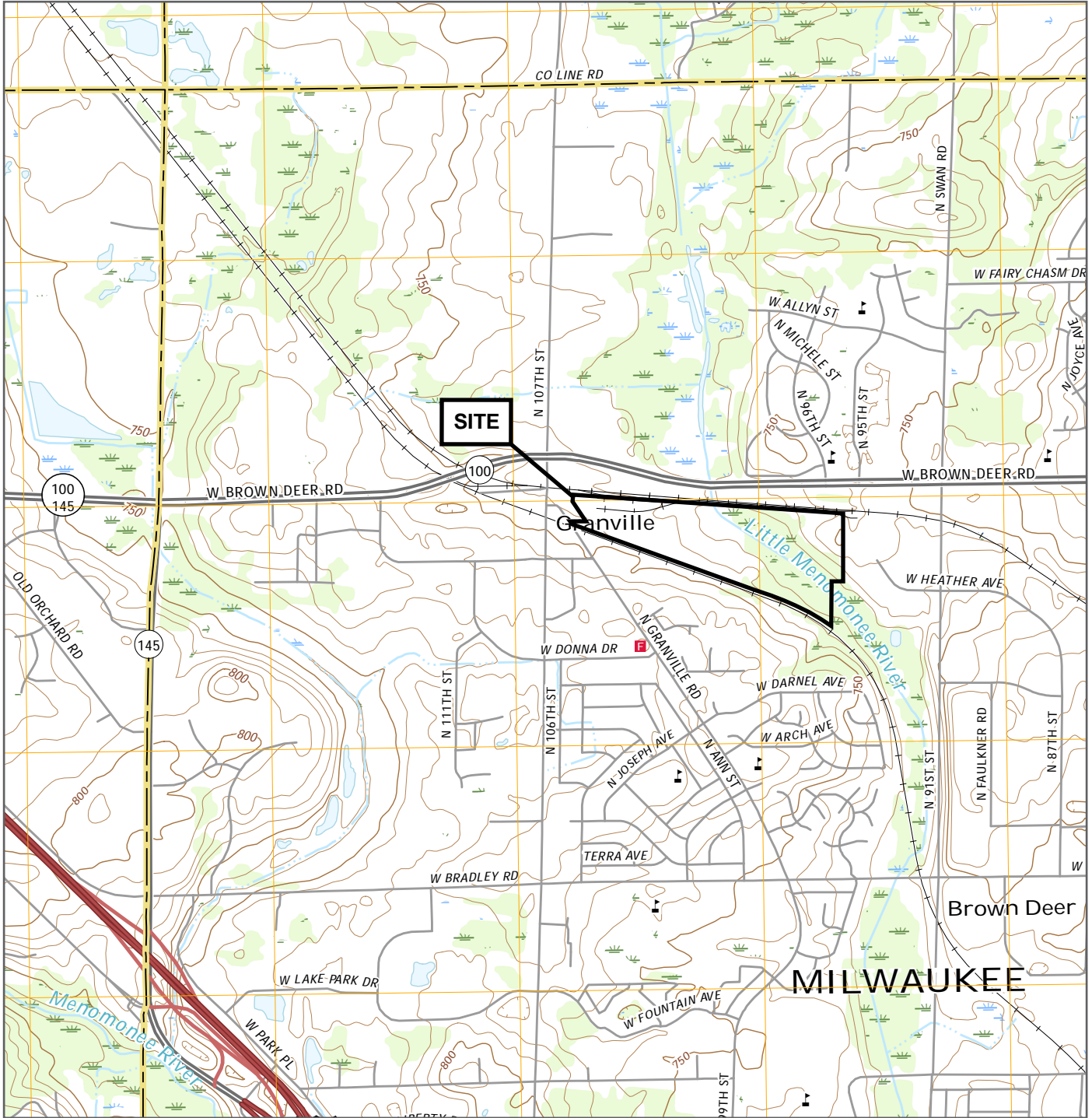
Data entered / updated by: SVK Date: 2/11/2022
Data checked by: DBC Date: 3/2/2022

Table 5
Remedial Action Options Matrix
Former Moss-American Site
8716 N. Granville Road, Milwaukee, Wisconsin
Sigma Project No. 18687
MAY 2022

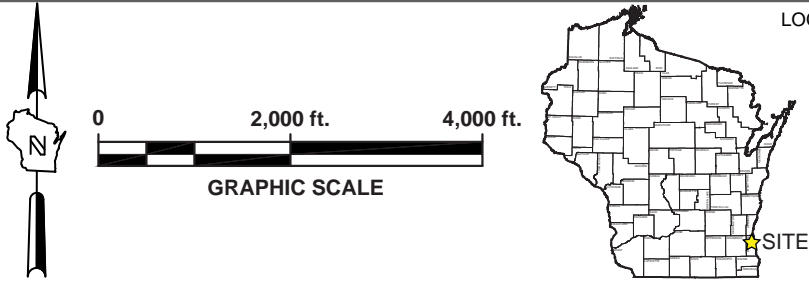
REMEDIAL ACTION OP	REMEDIAL TECHNOLOGIES	PROCESS OPTIONS	COMMENTS
No Action	----	---	Not viable considering the site conditions - included as a baseline to evaluate viable options.
Institutional Controls	Soil & Groundwater GIS Registry	Regulatory Reporting	Viable part of closure strategy - will be used for residual soil & groundwater impacts after remediation is completed.
Containment	Physical Barriers	Slurry Wall	Potentially feasible for GW impacts, but cost prohibitive given degree of impacts.
		Sheet Piling	Existing sheet pile along the river provides the necessary containment.
		Grout Curtains	Potentially feasible for GW impacts, but cost prohibitive given degree of impacts.
		Surface Soil Cap	Viable option for direct contact risk mitigation. Majority of the site is proposed to be capped after closure.
Soil Remediation	Excavation & Treatment or Disposal	Thermal	Not viable - cost prohibitive.
		Above Ground Biological Treatment	Potentially feasible for highly impact soil, but not viable because of time constraints and likely cost prohibitive.
		Above Ground Vapor Extraction	Not very effective for creosote free product mixed with PAH compounds.
		Mixing with Chemical Oxidants	Viable for treating free product impacted soil.
		Landfill	Viable part of soil management strategy for excavated soil, particularly for free product and associated impacted soil. Excavated soil will be managed as hazardous waste and disposed at a hazardous waste landfill.
	In Situ Remediation	Chemical Oxidants Injection	Viable strategy for in-situ treatment. May require multiple injection events and relatively long time to treat the soil compared to other technologies.
		In-place Chemical Oxidants Mixing	Viable strategy for in-situ treatment of free product impacted soil.
		Enhanced Bioremediation	Potentially feasible for free product impacts, prolonged treatment time and relatively high cost.
		Vapor Extraction	Not Viable for the type of free product present.
		Steam Enhanced Vapor/Product	Potentially feasible for free product impacts; cost prohibitive.
		Heated Soil Vapor Extraction	Not effective for the type of free product impacted soil.
		Soil Flushing	Potentially feasible for free product impacts, prolonged treatment time and relatively high cost.
		Phytoremediation	Viable as a long-term remedy for residual impacts following free product removal/treatment.
		Groundwater Remediation	Extraction & Treatment or Discharge
Biological Treatment	Potentially feasible, but cost prohibitive based on degree of impacts.		
Photolysis/Oxidation	Potentially feasible, but cost prohibitive based on degree of impacts.		
Screening/Filtration	Not viable for the type of impacts.		
Air Stripping	Not viable for the type of impacts.		
Activated Carbon Adsorption	Potentially feasible, but cost prohibitive based on degree of impacts.		
POTW Discharge	Feasible if groundwater extraction would be necessary, likely cost prohibitive.		
Surface Water/Storm Water	Potentially feasible if groundwater extraction and treatment would be necessary, likely cost prohibitive.		
In Situ Remediation	In Situ Chemical Oxidation (ISCO)		Viable option for type of impacts in groundwater near PZ-03, especially given the limited spatial extent of impacts above ch. NR 141 ES for PAH compounds.
	Enhanced Bioremediation		Viable option for PAH impacts in groundwater near PZ-03, especially given the limited spatial extent of impacts above ch. NR 141 ES for PAH compounds.
	Bioaugmentation		Potentially feasible, but cost prohibitive based on degree of impacts.
	Air Sparging		Potentially feasible, but cost prohibitive based on degree of impacts.
	Steam Stripping		Potentially feasible, but cost prohibitive based on degree of impacts.
	Phytoremediation		Viable as a long-term remedy for residual impacts following free product removal/treatment.
	Monitored Natural Attenuation		Groundwater Monitoring

FIGURES

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



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

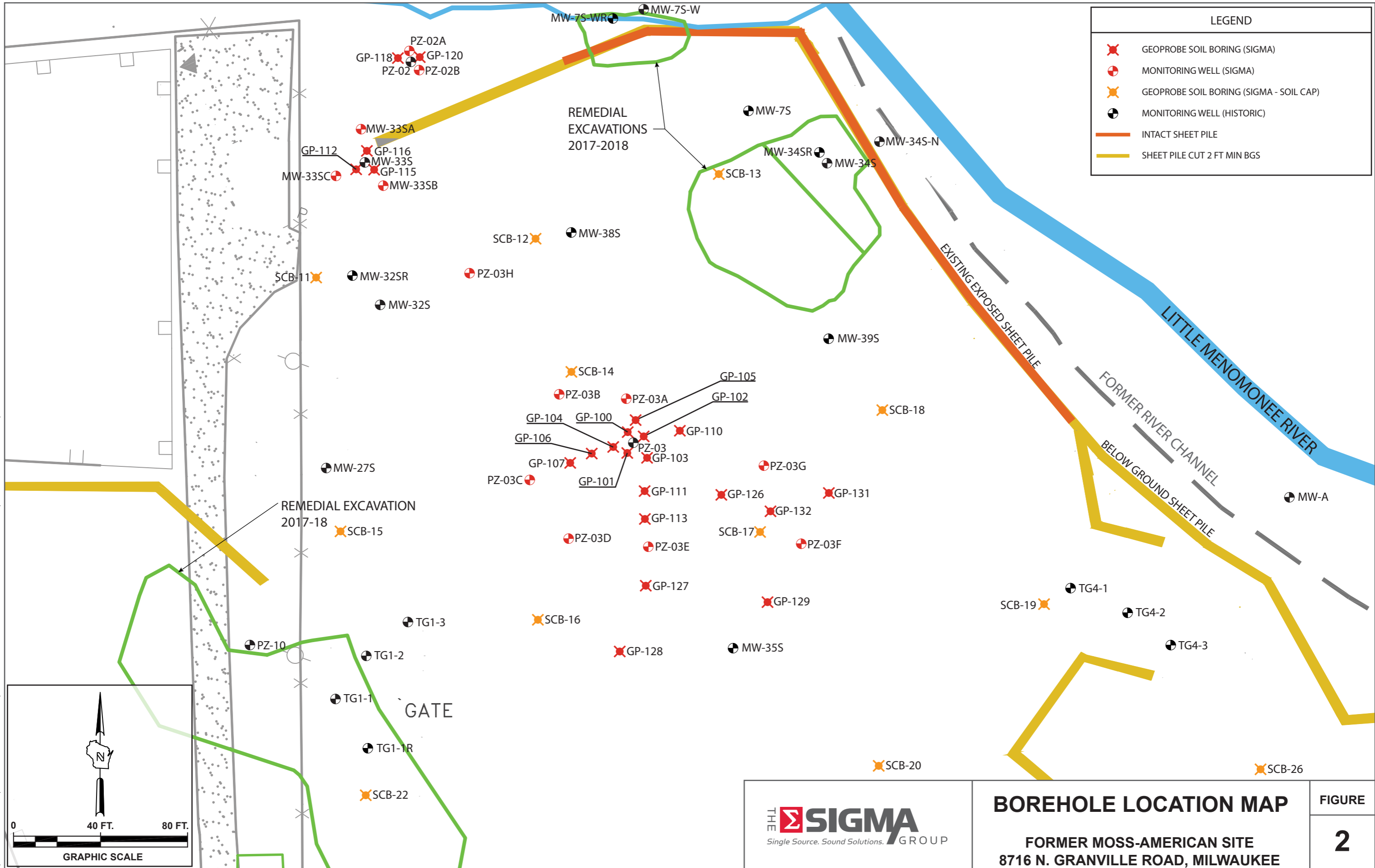


SITE LOCATION MAP
 8716 NORTH GRANVILLE ROAD
 MILWAUKEE, WISCONSIN

FIGURE
1

PROJECT: 18887 | DIRECTORY: CAD | FILENAME: 18887_PZ-03 Monitor Map_11x17.ai | CREATED BY: SVK | DATE: 04/21/2022

LEGEND	
	GEOPROBE SOIL BORING (SIGMA)
	MONITORING WELL (SIGMA)
	GEOPROBE SOIL BORING (SIGMA - SOIL CAP)
	MONITORING WELL (HISTORIC)
	INTACT SHEET PILE
	SHEET PILE CUT 2 FT MIN BGS



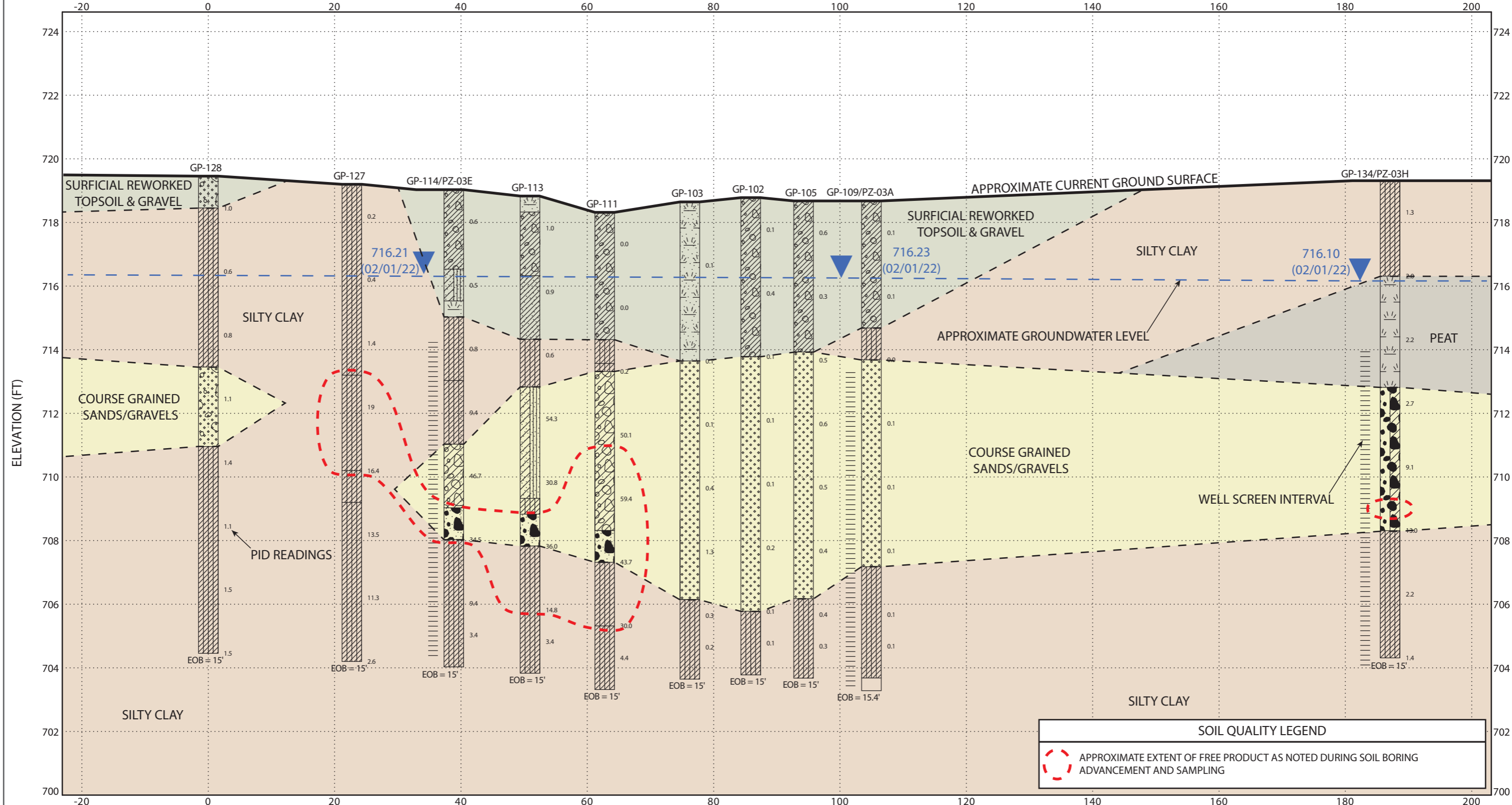
THE SIGMA GROUP
Single Source. Sound Solutions.

BOREHOLE LOCATION MAP
FORMER MOSS-AMERICAN SITE
8716 N. GRANVILLE ROAD, MILWAUKEE

FIGURE
2

A (SOUTH)

A' (NORTH)



Project: 16687 | Directory: CAD | Filename: Cross Section_Master_Map_horizontal 11x17.ai | Created By: SVK | Date: 04/21/2022

- | | | |
|-----------------------------------|-----------------------------------|--------------------------------|
| USCS Low Plasticity Gravelly Clay | USCS Well-graded Sand | USCS Low Plasticity Silty Clay |
| Topsil | USCS Clayey Gravel | USCS Well-graded Sandy Gravel |
| USCS Low Plasticity Sandy Clay | USCS Clayey Sand | USCS Peat |
| USCS Well-graded Gravelly Sand | USCS Well-graded Gravel with Clay | |

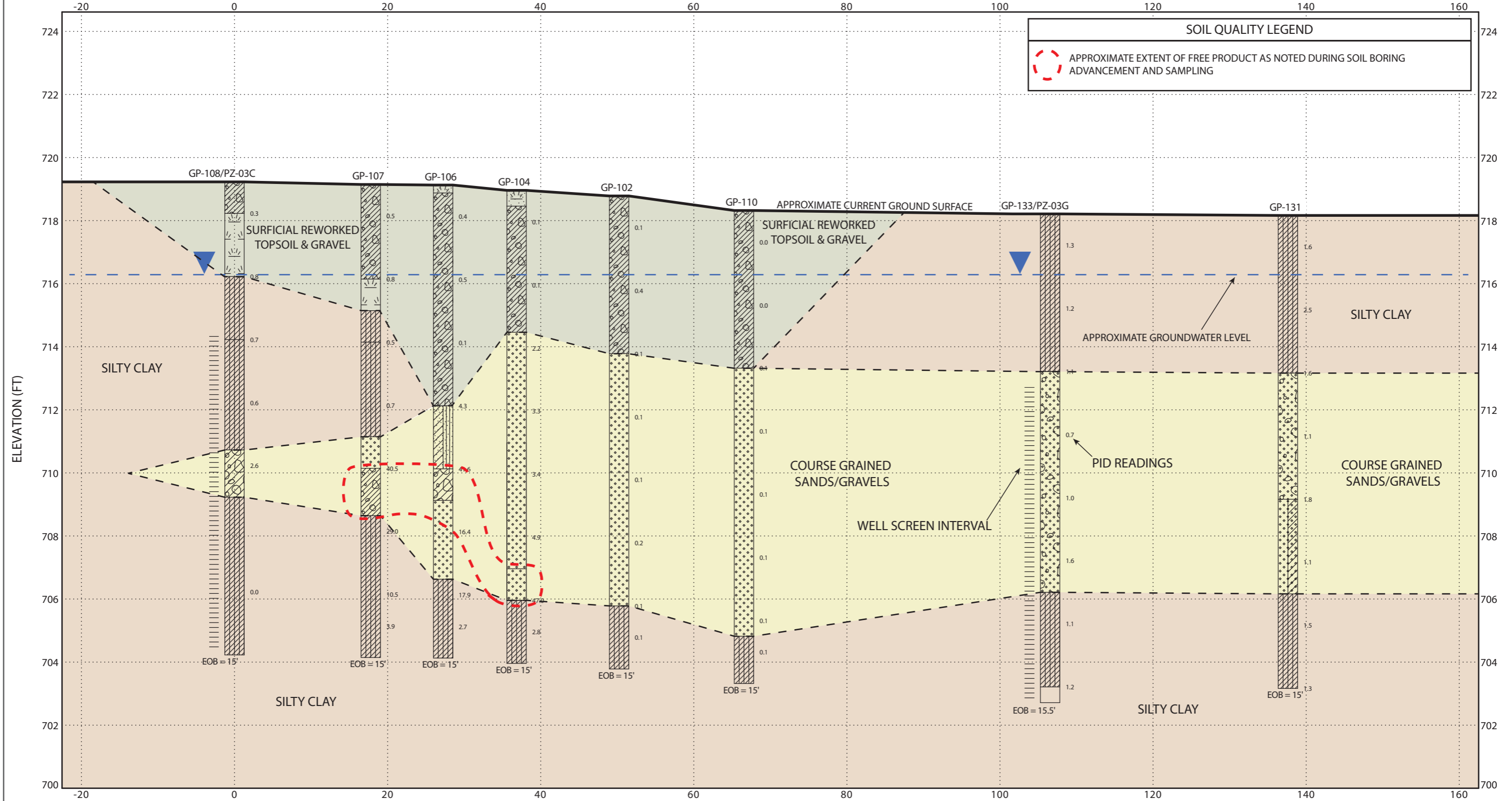
SOIL QUALITY LEGEND

APPROXIMATE EXTENT OF FREE PRODUCT AS NOTED DURING SOIL BORING ADVANCEMENT AND SAMPLING

<p>Single Source. Sound Solutions. GROUP</p>	<p>GEOLOGIC CROSS SECTION A-A'</p> <p>FORMER MOSS-AMERICAN SITE 8716 N. GRANVILLE ROAD, MILWAUKEE</p>	<p>FIGURE</p> <p>4</p>
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B (WEST)

B' (EAST)



SOIL QUALITY LEGEND

APPROXIMATE EXTENT OF FREE PRODUCT AS NOTED DURING SOIL BORING ADVANCEMENT AND SAMPLING

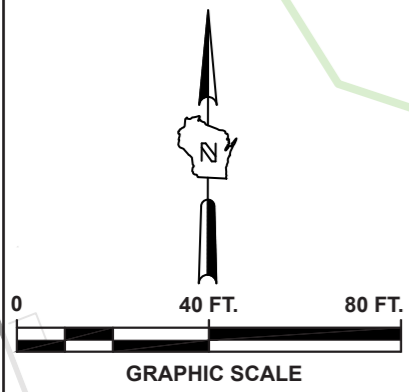
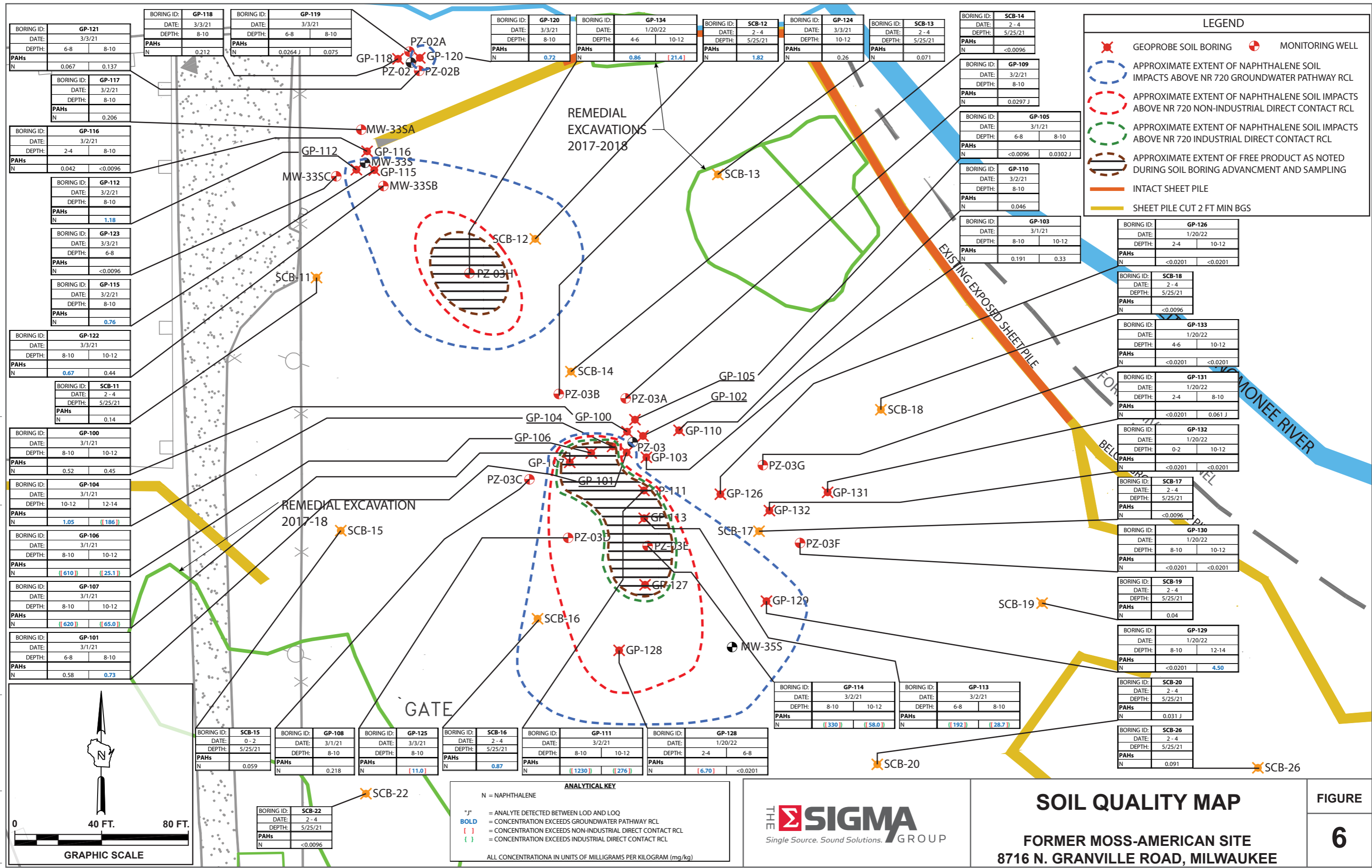
Project: 16687 | Directory: CAD | Filename: Cross Section_Master_Map_Horizontal 11x17.ai | Created By: SVK | Date: 04/21/2022

- | | | |
|-----------------------------------|--------------------------------|---------------------------------|
| USCS Low Plasticity Gravelly Clay | USCS Well-graded Sand | USCS Low Plasticity Silty Clay |
| Topsoil | USCS Clayey Sand | USCS Clayey Gravel |
| USCS Peat | USCS Well-graded Gravelly Sand | USCS Well-graded Sand with Clay |

DISTANCE ALONG BASELINE (FT)

<p>Single Source. Sound Solutions. GROUP</p>	<p>GEOLOGIC CROSS SECTION B-B'</p> <p>FORMER MOSS-AMERICAN SITE 8716 N. GRANVILLE ROAD, MILWAUKEE</p>	<p>FIGURE</p> <p>5</p>
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PROJECT: 18887
 DIRECTORY: CAD
 FILENAME: 18887_PZ-03 Monitor Map_1x17.ai
 CREATED BY: SVK
 DATE: 04/27/2022



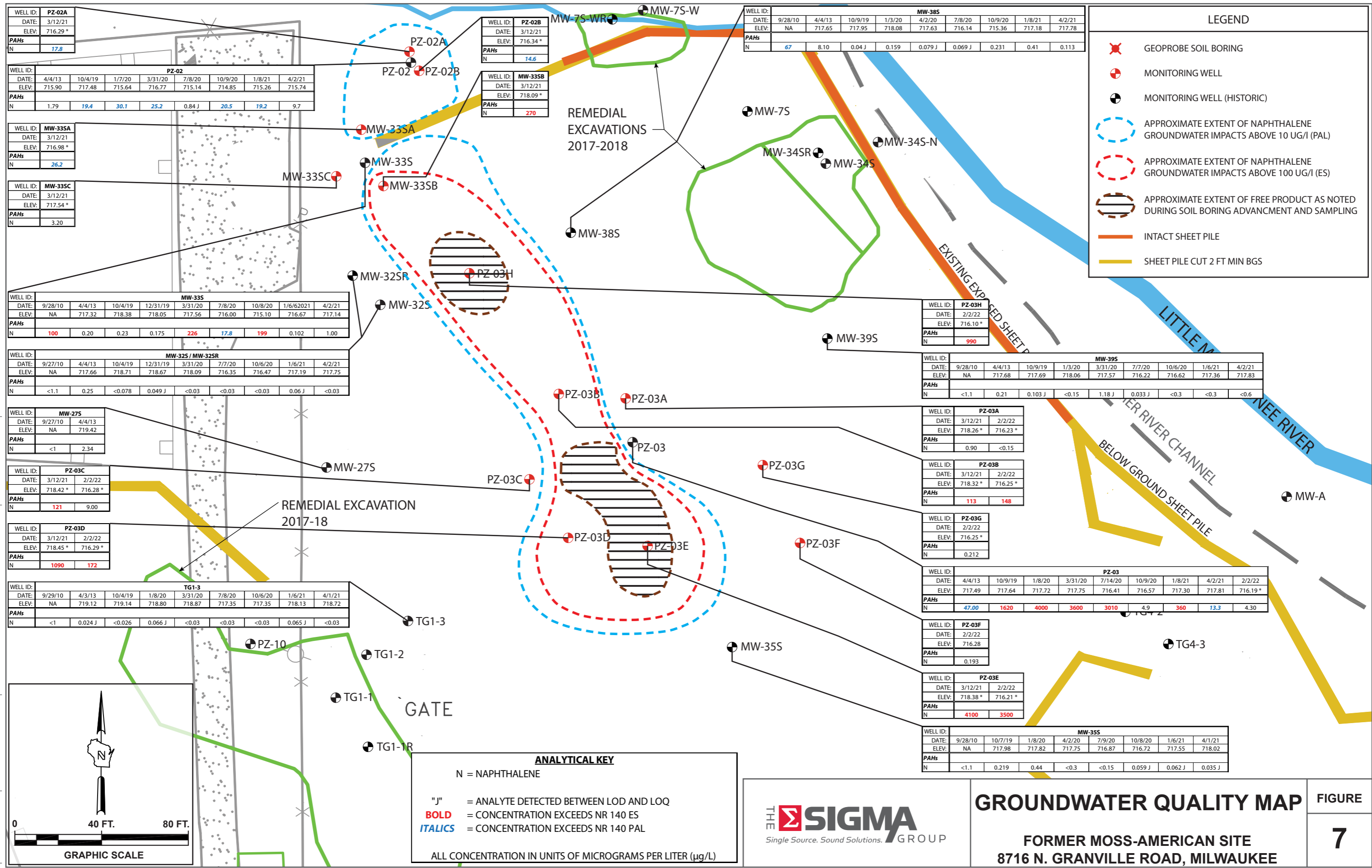
THE SIGMA GROUP
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SOIL QUALITY MAP

FORMER MOSS-AMERICAN SITE
 8716 N. GRANVILLE ROAD, MILWAUKEE

FIGURE 6

PROJECT: 18887
 DIRECTORY: CAD
 FILENAME: 18887_Pz-03 Monitor Map_11x17.ai
 CREATED BY: SVK
 DATE: 04/27/2022



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GROUNDWATER QUALITY MAP

FORMER MOSS-AMERICAN SITE
 8716 N. GRANVILLE ROAD, MILWAUKEE

FIGURE 7

ATTACHMENT 1
Soil Boring Logs

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

Facility/Project Name Moss American			License/Permit/Monitoring Number 02-41-529585		Boring Number GP-126		
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 1/20/2022		Date Drilling Completed 1/20/2022		
Drilling Method Geoprobe		WI Unique Well No. NA		DNR Well ID No. NA		Common Well Name NA	
Final Static Water Level Feet MSL		Surface Elevation 718.5 Feet MSL		Borehole Diameter 2.3 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location				
State Plane 434,882 N, 2,492,327 E S/C/N			Lat 43° 10' 34.5"			<input type="checkbox"/> N <input type="checkbox"/> E	
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E			Long 88° 2' 9.6"			<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241378280		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 52	PUSH	1	Brown SILTY CLAY with trace sand and gravel, moist, stiff (frozen). Wet at 4' bgs.	CL-ML			1.0							
			2												
			3												
			4												
2 GP	60 56	PUSH	5	Tan, well-graded GRAVELY SAND, wet, loose.	SPG			1.1							Sample collected from (2-4') for BTEX and PAHs.
			6												
			7												
			8												
3 GP	60 27	PUSH	9	Grey SILTY CLAY, wet, soft.	CL-ML			0.7							Sample collected from (10-12') for BTEX, PAHs, DRO, and GRO.
			10												
			11												
			12												
15				End of boring at 15' bgs. Borehole abandoned with hydrated bentonite chips to surface.				0.6						End of boring.	

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

Signature 	Firm The Sigma Group 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Moss American			License/Permit/Monitoring Number 02-41-529585		Boring Number GP-127		
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 1/20/2022		Date Drilling Completed 1/20/2022		
Drilling Method Geoprobe		WI Unique Well No. NA		DNR Well ID No. NA		Common Well Name NA	
Final Static Water Level Feet MSL		Surface Elevation 719.2 Feet MSL		Borehole Diameter 2.3 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location				
State Plane 434,840 N, 2,492,293 E S/C/N			Lat 43° 10' 34.2"			<input type="checkbox"/> N <input type="checkbox"/> E	
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E			Long 88° 2' 10.1"			<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241378280		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 54	P U S H	1	Black to grey, organic rich SILTY CLAY with trace sand and gravel, moist, medium stiff.	CL-ML			0.2							
			2												
			3												
			4												
2 GP	60 42	P U S H	5	Dark grey SILTY CLAY with gravel, wet, stiff, free product present, strong petroleum odors.	CL-ML			1.4							
			6												
			7												
3 GP	60 20	P U S H	8	Grey SILTY CLAY with some sand and gravel, wet, soft. Dark grey SILTY CLAY with some sand and gravel, wet, very soft.	CL-ML			16.4							
			9												
			10												
			11												
			12												
13	11.3														
			14												
			15	End of boring at 15' bgs. Borehole abandoned with hydrated bentonite chips to surface.				2.6							End of boring.

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

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

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

Facility/Project Name Moss American			License/Permit/Monitoring Number 02-41-529585		Boring Number GP-128		
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 1/20/2022		Date Drilling Completed 1/20/2022		
Drilling Method Geoprobe			WI Unique Well No. NA		DNR Well ID No. NA		
Common Well Name NA			Final Static Water Level Feet MSL		Surface Elevation 719.5 Feet MSL		
Borehole Diameter 2.3 inches			Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location		
State Plane NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E			Lat 43° 10' 33.9"		<input type="checkbox"/> N <input type="checkbox"/> E		
			Long 88° 2' 10.3"		<input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 241378280		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 42	PUSH	1	White to tan well-graded GRAVELY SAND, dry, loose.	SWG										
			2	Black to dark brown SILTY CLAY with some sand and gravel and trace peat, moist, medium stiff.	CL-ML			1.0							
2 GP	60 43	PUSH	3					0.6							
			4					0.8							Sample collected from (2-4') for BTEX and PAHs.
3 GP	60 25	PUSH	5	Grey, well-graded GRAVELY SAND with some clay, wet, loose.	SWG			1.1							
			6	Grey SILTY CLAY, wet, soft.	CL-ML			1.4							Sample collected from (6-8') for BTEX, PAHs, DRO, and GRO.
			7					1.1							
			8					1.5							
			9					1.5							
			10	End of boring at 15' bgs. Borehole abandoned with hydrated bentonite chips to surface.				1.5							End of boring.

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

Signature 	Firm The Sigma Group 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Moss American			License/Permit/Monitoring Number 02-41-529585			Boring Number GP-129		
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.				Date Drilling Started 1/20/2022		Date Drilling Completed 1/20/2022		Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level Feet MSL		Surface Elevation 718.5 Feet MSL		Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane 434,832 N, 2,492,349 E S/C/N				Lat 43° 10' 34.1"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NE 1/4 of NW 1/4 of Section 8,		T 8 N, R 21 E		Long 88° 2' 9.4"				
Facility ID 241378280		County Milwaukee		County Code 41	Civil Town/City/ or Village Milwaukee			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 52	PUSH	1.5	Light brown SILTY CLAY with some gravel and trace sand, moist, stiff.	CL-ML			0.8							
			3.0	Greyish brown SILTY CLAY with trace sand and gravel, moist, stiff.	CL-ML			1.4							
2 GP	60 54	PUSH	4.5	Tan, well-graded GRAVELY SAND, wet, loose.	SWG			2.2							
			6.0					2.3							
			7.5					2.9							
3 GP	60 38	PUSH	9.0	Grey SILTY CLAY, wet, stiff.	CL-ML			2.0						Sample collected from (8-10') for BTEX and PAHs.	
			10.5					2.0							
			12.0					2.0							
			13.5					2.0						Sample collected from (12-14') for BTEX, PAHs, DRO, and GRO. End of boring.	
			15.0	End of boring at 15' bgs. Borehole abandoned with hydrated bentonite chips to surface.				1.7							

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


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

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

Facility/Project Name Moss American		License/Permit/Monitoring Number 02-41-529585		Boring Number GP-130/PZ-03F	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 1/20/2022	Date Drilling Completed 1/20/2022	Drilling Method Geoprobe
WI Unique Well No. WC621	DNR Well ID No. NA	Common Well Name PZ-03F	Final Static Water Level 716.3 Feet MSL	Surface Elevation 718.4 Feet MSL	Borehole Diameter 2.3 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane 434,859 N, 2,492,364 E S/C/N			Local Grid Location		
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E			Lat 43° 10' 34.3"	<input type="checkbox"/> N <input type="checkbox"/> E	
			Long 88° 2' 9.1"	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241378280		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 45	PUSH	1.5	TOPSOIL: Brown, organic rich SILTY CLAY, moist, soft.	TOPSOIL			1.4							
			3.0	Brown SILTY CLAY with trace sand and gravel and black streaks, moist, stiff.	CL-MI		1.4								
2 GP	60 48	PUSH	6.0	Tan, well-graded GRAVELY SAND, wet, loose.				1.5							
			9.0	Slight petroleum odor and staining from (8-10').	SWG		1.7								
3 GP	60 24	PUSH	12.0	Grey SILTY CLAY, wet, medium soft.				2.0							
			15.0	Stopped logging at 15' bgs. End of boring at 15' bgs. 2" PVC NR 141 compliant monitoring well installed to 15.5' bgs.	CL-MI		1.7						Sample collected from (8-10') for BTEX and PAHs. Sample collected from (10-12') for BTEX, PAHs, DRO, and GRO.		
								1.6							End of boring.

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

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

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

Facility/Project Name Moss American			License/Permit/Monitoring Number 02-41-529585		Boring Number GP-131		
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 1/20/2022		Date Drilling Completed 1/20/2022		
Drilling Method Geoprobe		WI Unique Well No. NA		DNR Well ID No. NA		Common Well Name NA	
Final Static Water Level Feet MSL		Surface Elevation 718.2 Feet MSL		Borehole Diameter 2.3 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location				
State Plane 434,882 N, 2,492,377 E S/C/N			Lat 43° 10' 34.6"		<input type="checkbox"/> N <input type="checkbox"/> E		
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E			Long 88° 2' 9.0"		<input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 241378280		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 48	PUSH	1	Brown SILTY CLAY with trace sand and gravel, moist, stiff.	CL-ML			1.6							Sample collected from (2-4') for BTEX and PAHs.
			2.5												
2 GP	60 44	PUSH	5	Tan, well-graded GRAVELY SAND, wet, loose.	SWG			1.6						Sample collected from (8-10') for BTEX, PAHs, DRO, and GRO.	
			1.1												
3 GP	60 43	PUSH	10	Grey, well-graded CLAYEY SAND, wet, soft.	SW-SC			1.8						Sample collected from (8-10') for BTEX, PAHs, DRO, and GRO.	
			1.1												
			12	Grey SILTY CLAY with trace sand and gravel, wet, stiff.	CL-ML			1.5						End of boring.	
			15					End of boring at 15' bgs. Borehole abandoned with hydrated bentonite chips to surface.				1.3			

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

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

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

Facility/Project Name Moss American			License/Permit/Monitoring Number 02-41-529585		Boring Number GP-132	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 1/20/2022		Date Drilling Completed 1/20/2022	
Drilling Method Geoprobe			Final Static Water Level Feet MSL		Surface Elevation 718.2 Feet MSL	
WI Unique Well No. NA		DNR Well ID No. NA		Common Well Name NA		Borehole Diameter 2.3 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane 434,874 N, 2,492,350 E S/C/N			Lat 43° 10' 34.5"			<input type="checkbox"/> N <input type="checkbox"/> E
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E			Long 88° 2' 9.3"			<input type="checkbox"/> S <input type="checkbox"/> W
Facility ID 241378280		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 50	PUSH	1	Brown SILTY CLAY with trace sand and gravel, moist, stiff.	CL-ML			7.4							Sample collected from (0-2') for BTEX and PAHs.
			2												
			3												
			4												
2 GP	60 44	PUSH	5	Tan, well-graded GRAVELY SAND, wet, loose.	SWG			1.6							
			6												
			7												
			8												
3 GP	60 28	PUSH	9	Grey SILTY CLAY, wet, stiff.	CL-ML			2.3						Sample collected from (10-12') for BTEX and PAHs.	
			10												
			11												
			12												
			13					2.2							
			14												
			15	End of boring at 15' bgs. Borehole abandoned with hydrated bentonite chips to surface.				1.3						End of boring.	

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

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

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

Facility/Project Name Moss American		License/Permit/Monitoring Number 02-41-529585		Boring Number GP-133/PZ-03G	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 1/20/2022	Date Drilling Completed 1/20/2022	Drilling Method Geoprobe
WI Unique Well No. WC622	DNR Well ID No. NA	Common Well Name PZ-03G	Final Static Water Level 716.2 Feet MSL	Surface Elevation 718.2 Feet MSL	Borehole Diameter 2.3 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane 434,895 N, 2,492,347 E S/C/N			Local Grid Location		
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E			Lat 43° 10' 34.7"	<input type="checkbox"/> N <input type="checkbox"/> E	
			Long 88° 2' 9.4"	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241378280		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 48	PUSH	1.5	Brown SILTY CLAY with trace sand and gravel, moist, stiff.	CL-ML			1.3							
2 GP	60 37	PUSH	4.5	Wet at 4.5 feet bgs.											
			6.0	Tan, well-graded GRAVELY SAND, wet, loose.	SWG			1.1							Sample collected from (4-6') for BTEX and PAHs.
			7.5					0.7							
			9.0					1.0							
3 GP	60 46	PUSH	10.5					1.6							Sample collected from (10-12') for BTEX, PAHs, DRO, and GRO.
			12.0	Grey SILTY CLAY with trace sand, wet, stiff.	CL-ML			1.1							
			13.5					1.1							
			15.0	Stopped logging at 15' bgs.				1.2							End of boring.
				End of boring at 15' bgs. 2" PVC NR 141 compliant monitoring well installed to 15.5' bgs.											

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


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

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

Facility/Project Name Moss American		License/Permit/Monitoring Number 02-41-529585		Boring Number GP-134/PZ-03H	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.		Date Drilling Started 1/20/2022		Date Drilling Completed 1/20/2022	
Drilling Method Geoprobe		WI Unique Well No. WC623		DNR Well ID No. NA	
Common Well Name PZ-03H		Final Static Water Level 716.1 Feet MSL		Surface Elevation 719.3 Feet MSL	
Borehole Diameter 2.3 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane 434,984 N, 2,492,212 E S/C/N		Lat 43° 10' 35.6"		<input type="checkbox"/> N <input type="checkbox"/> E	
NE 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E		Long 88° 2' 11.2"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241378280		County Milwaukee		County Code 41	
				Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60/40	PUSH	1.5	Brown SILTY CLAY with trace sand and gravel, moist, stiff.	CL-ML			1.3							
			3.0	Black, well mixed SANDY PEAT with clay and trace wood, wet, medium soft.	PT			2.0							
2 GP	60/27	PUSH	2.2					2.2							
			4.5												
			6.0	Gray, well-graded CLAYEY GRAVEL with some sand, wet, loose.	GW-GG			2.7							Sample collected from (4-6') for BTEX and PAHs.
			7.5												
			9.0												
			9.1	Free product present from (9.75-10').											
3 GP	60/42	PUSH	10.5												
			12.0	Gray SILTY CLAY, wet, medium stiff.	CL-ML			13.0							Sample collected from (10-12') for BTEX and PAHs.
			13.5												
			15.0	Stopped logging at 15' bgs.											
				End of boring at 15' bgs. 2" PVC NR 141 compliant monitoring well installed to 15.5' bgs.											End of boring.

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

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

ATTACHMENT 2

Borehole Abandonment Forms

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal
GP-126

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well NA		Hicap # NA		Facility Name Moss American					
Latitude / Longitude (Degrees and Minutes) 43 ° 10' 34.5 " ' N 88 ° 2' 9.6 " ' W				Method Code (see instructions)		Facility ID (FID or PWS) 241378280					
1/4 NE or Gov't Lot #		1/4 NW		Section 8	Township 8	Range 21	<input checked="" type="checkbox"/> E <input type="checkbox"/> W				
Well Street Address 9633 W. Brown Deer Road						Original Well Owner Milwaukee County					
Well City, Village or Town Milwaukee						Well ZIP Code 53224					
Subdivision Name NA						Lot # NA		City of Present Owner Milwaukee		State WI	ZIP Code 53233

3. Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason For Removal From Service Investigative Boring		WI Unique Well # of Replacement Well NA		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A							
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 1/20/2022		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)							
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		If a Well Construction Report is available, please attach.		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips							
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft) 15.0		Casing Diameter (in.) NA		Lower Drillhole Diameter (in.) 2.3		Casing Depth (ft.) NA		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)?		Depth to Water (feet)							

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 1/20/2022	Date Received	Noted By
Street or Route 3210 Edmonton Drive		Telephone Number 608-837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work 	Date Signed 04/14/2022	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal
GP-127

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____


1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well NA		Hicap # NA		Facility Name Moss American			
Latitude / Longitude (Degrees and Minutes) 43 ° 10 ' 34.2 " ' N 88 ° 2 ' 10.1 " ' W				Method Code (see instructions)		Facility ID (FID or PWS) 241378280			
1/4 NE or Gov't Lot #		1/4 NW		Section 8	Township 8	Range 21	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		License/Permit/Monitoring # 02-41-529585
Well Street Address 9633 W. Brown Deer Road						Original Well Owner Milwaukee County			
Well City, Village or Town Milwaukee				Well ZIP Code 53224		Present Well Owner Milwaukee County			
Subdivision Name NA				Lot # NA		City of Present Owner Milwaukee		State WI	ZIP Code 53233

3. Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason For Removal From Service Investigative Boring		WI Unique Well # of Replacement Well NA		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A																	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 1/20/2022		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)																	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		If a Well Construction Report is available, please attach.		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips																	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft) 15.0		Casing Diameter (in.) NA		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry															
Lower Drillhole Diameter (in.) 2.3		Casing Depth (ft.) NA		5. Material Used to Fill Well / Drillhole																	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)?		Depth to Water (feet)		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>No. Yards, Sacks Sealant or Volume (circle one)</th> <th>Mix Ratio or Mud Weight</th> </tr> </thead> <tbody> <tr> <td>Surface</td> <td>15.0</td> <td>0.5</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	Surface	15.0	0.5					
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight																		
Surface	15.0	0.5																			

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 1/20/2022	Date Received	Noted By
Street or Route 3210 Edmonton Drive			Telephone Number 608-837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work 	Date Signed 04/14/2022	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal
GP-128

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well NA		Hicap # NA		Facility Name Moss American			
Latitude / Longitude (Degrees and Minutes) 43 ° 10 ' 33.9 " ' N 88 ° 2 ' 10.3 " ' W				Method Code (see instructions)		Facility ID (FID or PWS) 241378280			
1/4 NE or Gov't Lot #		1/4 NW		Section 8	Township 8	Range 21	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		
Well Street Address 9633 W. Brown Deer Road						License/Permit/Monitoring # 02-41-529585			
Well City, Village or Town Milwaukee						Original Well Owner Milwaukee County			
Subdivision Name NA						Present Well Owner Milwaukee County			
Reason For Removal From Service Investigative Boring						Mailing Address of Present Owner 901 N. 9th Street			
WI Unique Well # of Replacement Well NA						City of Present Owner Milwaukee		State WI	ZIP Code 53233

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 1/20/2022
If a Well Construction Report is available, please attach.		
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		
Total Well Depth From Ground Surface (ft) 15.0	Casing Diameter (in.) NA	
Lower Drillhole Diameter (in.) 2.3	Casing Depth (ft.) NA	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		
If yes, to what depth (feet)?	Depth to Water (feet)	

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

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 1/20/2022	Date Received	Noted By
Street or Route 3210 Edmonton Drive			Telephone Number 608-837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work 	Date Signed 04/14/2022	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal
GP-129

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee	WI Unique Well # of Removed Well NA	Hicap # NA	Facility Name Moss American	
Latitude / Longitude (Degrees and Minutes) 43 ° 10 ' 34.1 " ' N 88 ° 2 ' 9.4 " ' W		Method Code (see instructions)		Facility ID (FID or PWS) 241378280
1/4 NE or Gov't Lot #	1/4 NW	Section 8	Township 8	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 21
Well Street Address 9633 W. Brown Deer Road			Original Well Owner Milwaukee County	
Well City, Village or Town Milwaukee			Present Well Owner Milwaukee County	
Subdivision Name NA			Mailing Address of Present Owner 901 N. 9th Street	
Reason For Removal From Service Investigative Boring			City of Present Owner Milwaukee	
WI Unique Well # of Replacement Well NA			State WI	
			ZIP Code 53233	

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 1/20/2022
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Direct Push</u>		If a Well Construction Report is available, please attach.
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		
Total Well Depth From Ground Surface (ft) 15.0	Casing Diameter (in.) NA	
Lower Drillhole Diameter (in.) 2.3	Casing Depth (ft.) NA	
Was well annular space grouted? If yes, to what depth (feet)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown Depth to Water (feet)	

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

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain)	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing (mm/dd/yyyy) 1/20/2022	Date Received	Noted By
Street or Route 3210 Edmonton Drive		Telephone Number 608-837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work 	Date Signed 04/14/2022

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal
GP-131

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well NA		Hicap # NA		Facility Name Moss American			
Latitude / Longitude (Degrees and Minutes) 43 ° 10 ' 34.6 " ' N 88 ° 2 ' 9.0 " ' W				Method Code (see instructions)		Facility ID (FID or PWS) 241378280			
1/4 NE or Gov't Lot #		1/4 NW		Section 8	Township 8	Range 21	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		
Well Street Address 9633 W. Brown Deer Road						License/Permit/Monitoring # 02-41-529585			
Well City, Village or Town Milwaukee						Original Well Owner Milwaukee County			
Subdivision Name NA						Present Well Owner Milwaukee County			
Reason For Removal From Service Investigative Boring						Mailing Address of Present Owner 901 N. 9th Street			
WI Unique Well # of Replacement Well NA						City of Present Owner Milwaukee		State WI	ZIP Code 53233

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 1/20/2022
If a Well Construction Report is available, please attach.		
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		
Total Well Depth From Ground Surface (ft) 15.0	Casing Diameter (in.) NA	
Lower Drillhole Diameter (in.) 2.3	Casing Depth (ft.) NA	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		
If yes, to what depth (feet)?	Depth to Water (feet)	

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

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 1/20/2022	Date Received	Noted By
Street or Route 3210 Edmonton Drive			Telephone Number 608-837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work 	Date Signed 04/14/2022	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal
GP-132

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee	WI Unique Well # of Removed Well NA	Hicap # NA	Facility Name Moss American	
Latitude / Longitude (Degrees and Minutes) 43 ° 10 ' 34.5 " ' N 88 ° 2 ' 9.3 " ' W		Method Code (see instructions)		Facility ID (FID or PWS) 241378280
1/4 NE or Gov't Lot #	1/4 NW	Section 8	Township 8	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 21
Well Street Address 9633 W. Brown Deer Road			License/Permit/Monitoring # 02-41-529585	
Well City, Village or Town Milwaukee			Original Well Owner Milwaukee County	
Subdivision Name NA			Present Well Owner Milwaukee County	
Reason For Removal From Service Investigative Boring			Mailing Address of Present Owner 901 N. 9th Street	
WI Unique Well # of Replacement Well NA			City of Present Owner Milwaukee	
			State WI	ZIP Code 53233

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date 1/20/2022
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Drillhole / Borehole	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Direct Push</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft) 15.0	Casing Diameter (in.) NA
Lower Drillhole Diameter (in.) 2.3	Casing Depth (ft.) NA
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet)
If yes, to what depth (feet)?	

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

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain)	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing (mm/dd/yyyy) 1/20/2022	Date Received	Noted By
Street or Route 3210 Edmonton Drive		Telephone Number 608-837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work 	Date Signed 04/14/2022

ATTACHMENT 3
Monitoring Well Construction Forms

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

Facility/Project Name Moss American	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name PZ-03F
Facility License, Permit or Monitoring No. 02-41-529585	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. <u>43° 10' 34.3"</u> Long. <u>88° 2' 9.1"</u> or	Wis. Unique Well No. <u>WC621</u> DNR Well Number <u>NA</u>
Facility ID 241378280	St. Plane <u>434,859</u> ft. N, <u>2,492,364</u> ft. E. S/C/N	Date Well Installed <u>01/20/2022</u>
Type of Well Well Code 11/mw	Section Location of Waste/Source <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>8</u> , T. <u>8</u> N, R. <u>21</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>Tony Kapugi</u>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input checked="" type="checkbox"/>		On-Site Environmental

A. Protective pipe, top elevation	<u>721.00</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>720.69</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> __ d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	<u>718.4</u> ft. MSL	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> __
D. Surface seal, bottom	<u>714.9</u> ft. MSL or <u>3.5</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter Pack <input checked="" type="checkbox"/> __
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. <u>2</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> __
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> __		7. Fine sand material: Manufacturer, product name & mesh size a. <u>Red Flint Sand #15</u> b. Volume added <u>0.5</u> ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint Sand #40</u> b. Volume added <u>3</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> __
Describe _____		10. Screen material: <u>SCH 40 PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> __ b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
17. Source of water (attach analysis, if required): _____		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> __
E. Bentonite seal, top	<u>718.4</u> ft. MSL or <u>0.0</u> ft.	
F. Fine sand, top	<u>714.9</u> ft. MSL or <u>3.5</u> ft.	
G. Filter pack, top	<u>713.9</u> ft. MSL or <u>4.5</u> ft.	
H. Screen joint, top	<u>712.9</u> ft. MSL or <u>5.5</u> ft.	
I. Well bottom	<u>702.9</u> ft. MSL or <u>15.5</u> ft.	
J. Filter pack, bottom	<u>702.9</u> ft. MSL or <u>15.5</u> ft.	
K. Borehole, bottom	<u>702.9</u> ft. MSL or <u>15.5</u> ft.	
L. Borehole, diameter	<u>2.3</u> in.	
M. O.D. well casing	<u>2.35</u> in.	
N. I.D. well casing	<u>2.00</u> in.	

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 Tel: 414-643-4200
1300 W Canal St Milwaukee, WI 53233 Fax: 414-643-4210

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

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

Facility/Project Name Moss American	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name PZ-03G
Facility License, Permit or Monitoring No. 02-41-529585	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. <u>43° 10' 34.7"</u> Long. <u>88° 2' 9.4"</u> or	Wis. Unique Well No. <u>WC622</u> DNR Well Number <u>NA</u>
Facility ID 241378280	St. Plane <u>434,895</u> ft. N, <u>2,492,347</u> ft. E. S/C/N	Date Well Installed <u>01/20/2022</u>
Type of Well Well Code 11/mw	Section Location of Waste/Source <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>8</u> , T. <u>8</u> N, R. <u>21</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>Tony Kapugi</u>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input checked="" type="checkbox"/>		On-Site Environmental

A. Protective pipe, top elevation	<u>721.00</u> ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>720.53</u> ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	<u>718.2</u> ft. MSL	a. Inside diameter:	<u>4.0</u> in.
D. Surface seal, bottom	<u>714.7</u> ft. MSL or <u>3.5</u> ft.	b. Length:	<u>5.0</u> ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> __
		d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
12. USCS classification of soil near screen:		3. Surface seal:	Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> __
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/>		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 Filter Pack <input checked="" type="checkbox"/> __
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/>		5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. <u>2</u> Ft ³ volume added for any of the above
Bedrock <input type="checkbox"/>		f. How installed:	Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> __
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> __	7. Fine sand material: Manufacturer, product name & mesh size	a. _____ b. Volume added <u>0.5</u> ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01	Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	8. Filter pack material: Manufacturer, product name & mesh size	a. _____ b. Volume added <u>3</u> ft ³
16. Drilling additives used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> __
Describe _____		10. Screen material: _____	a. Screen Type: _____ Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> __
17. Source of water (attach analysis, if required):		b. Manufacturer _____	Monoflex
		c. Slot size:	<u>0.010</u> in.
E. Bentonite seal, top	<u>718.2</u> ft. MSL or <u>0.0</u> ft.	d. Slotted length:	<u>10.0</u> ft.
F. Fine sand, top	<u>714.7</u> ft. MSL or <u>3.5</u> ft.	11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> __
G. Filter pack, top	<u>713.7</u> ft. MSL or <u>4.5</u> ft.		
H. Screen joint, top	<u>712.7</u> ft. MSL or <u>5.5</u> ft.		
I. Well bottom	<u>702.7</u> ft. MSL or <u>15.5</u> ft.		
J. Filter pack, bottom	<u>702.7</u> ft. MSL or <u>15.5</u> ft.		
K. Borehole, bottom	<u>702.7</u> ft. MSL or <u>15.5</u> ft.		
L. Borehole, diameter	<u>2.3</u> in.		
M. O.D. well casing	<u>2.35</u> in.		
N. I.D. well casing	<u>2.00</u> in.		

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 Tel: 414-643-4200
1300 W Canal St Milwaukee, WI 53233 Fax: 414-643-4210

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Moss American	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name PZ-03H
Facility License, Permit or Monitoring No. 02-41-529585	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. <u>43° 10' 35.6"</u> Long. <u>88° 2' 11.2"</u> or	Wis. Unique Well No. <u>WC623</u> DNR Well Number <u>NA</u>
Facility ID 241378280	St. Plane <u>434,984</u> ft. N, <u>2,492,212</u> ft. E. S/C/N	Date Well Installed <u>01/20/2022</u>
Type of Well Well Code 11/mw	Section Location of Waste/Source <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>8</u> , T. <u>8</u> N, R. <u>21</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>Tony Kapugi</u>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input checked="" type="checkbox"/>		On-Site Environmental

A. Protective pipe, top elevation	<u>722.00</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>721.60</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> __ d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	<u>719.3</u> ft. MSL	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> __
D. Surface seal, bottom	<u>715.8</u> ft. MSL or <u>3.5</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter Pack <input checked="" type="checkbox"/> __
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input checked="" type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. <u>2</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> __
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> __		7. Fine sand material: Manufacturer, product name & mesh size a. <u>Red Flint Sand #15</u> b. Volume added <u>0.5</u> ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint Sand #40</u> b. Volume added <u>3</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> __
Describe _____		10. Screen material: <u>SCH 40 PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> __ b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
17. Source of water (attach analysis, if required): _____		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> __
E. Bentonite seal, top	<u>719.3</u> ft. MSL or <u>0.0</u> ft.	
F. Fine sand, top	<u>715.8</u> ft. MSL or <u>3.5</u> ft.	
G. Filter pack, top	<u>714.8</u> ft. MSL or <u>4.5</u> ft.	
H. Screen joint, top	<u>713.8</u> ft. MSL or <u>5.5</u> ft.	
I. Well bottom	<u>703.8</u> ft. MSL or <u>15.5</u> ft.	
J. Filter pack, bottom	<u>703.8</u> ft. MSL or <u>15.5</u> ft.	
K. Borehole, bottom	<u>703.8</u> ft. MSL or <u>15.5</u> ft.	
L. Borehole, diameter	<u>2.3</u> in.	
M. O.D. well casing	<u>2.35</u> in.	
N. I.D. well casing	<u>2.00</u> in.	

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 Tel: 414-643-4200
1300 W Canal St Milwaukee, WI 53233 Fax: 414-643-4210

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

ATTACHMENT 4
Monitoring Well Development Forms

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

Facility/Project Name MOSS AMERICA	County Name MILWAUKEE	Well Name PZ-03F
Facility License, Permit or Monitoring Number 02-41-529585	County Code 41	Wis. Unique Well Number WC721
		DNR Well ID Number N/A

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/> 41
surged with bailer and pumped	<input type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input checked="" type="checkbox"/> 10
pumped only	<input type="checkbox"/> 51
pumped slowly	<input type="checkbox"/> 50
Other _____	<input type="checkbox"/>

3. Time spent developing well 240 min.

4. Depth of well (from top of well casing) 17.6 ft.

5. Inside diameter of well 2.25 in.

6. Volume of water in filter pack and well casing 15.3 gal.

7. Volume of water removed from well 100.0 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.59</u> ft.	<u>4.66</u> ft.
Date	b. <u>01/31/2022</u> m m d d y y y y	<u>01/31/2022</u> m m d d y y y y
Time	c. <u>10:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>14:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) <u>DAWK</u> <u>BROWN</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>N/A</u> mg/l	<u>N/A</u> mg/l
15. COD	<u>N/A</u> mg/l	<u>N/A</u> mg/l

16. Well developed by: Name (first, last) and Firm

First Name: DREW Last Name: COFFIN

Firm: THE SIGMA GROUP

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Lee Last Name: Delcore

Facility/Firm: WDNR

Street: 1027 W. St. Paul Ave

City/State/Zip: Milwaukee, WI 53233

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

Signature: [Signature]

Print Name: DREW COFFIN

Firm: THE SIGMA GROUP

NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name <u>Former Moss Amercen</u>	County Name <u>Milwaukee</u>	Well Name <u>PZ-036</u>
Facility License, Permit or Monitoring Number <u>02-41-529585</u>	County Code <u>41</u>	Wis. Unique Well Number <u>W0720</u>
		DNR Well ID Number <u>N/A</u>

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 240 min.

4. Depth of well (from top of well casing) 17.75 ft.

5. Inside diameter of well 200 in.

6. Volume of water in filter pack and well casing 15.6 gal.

7. Volume of water removed from well 160.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.41</u> ft.	<u>4.50</u> ft.
Date	b. <u>01/31/2022</u> m m d d y y y y	<u>01/31/2022</u> m m d d y y y y
Time	c. <u>10:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>2:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.04</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) <u>Slightly Turbid</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids N/A mg/l N/A mg/l

15. COD N/A mg/l N/A mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nickolas Last Name: Wochert

Firm: The Sigma Group

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Lee Last Name: Delcore

Facility/Firm: WDNR

Street: 1027 W. St. Paul Ave

City/State/Zip: Milwaukee, WI 53233

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

Signature: Nickolas Wochert

Print Name: Nickolas Wochert

Firm: The Sigma Group

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

Facility/Project Name <u>Moss American</u>	County Name <u>Milwaukee</u>	Well Name <u>P2-03H</u>
Facility License, Permit or Monitoring Number <u>02-41-529585</u>	County Code <u>41</u>	Wis. Unique Well Number <u>WU732</u>
		DNR Well ID Number <u>N/A</u>

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 240 min.
4. Depth of well (from top of well casing) 17.5 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing 14.04 gal.
7. Volume of water removed from well 140.0 gal.
8. Volume of water added (if any) N/A gal.
9. Source of water added N/A
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | Before Development | After Development |
|---|---|--|
| 11. Depth to Water (from top of well casing) | a. <u>5.63</u> ft. | <u>5.74</u> ft. |
| Date | b. <u>01/31/2022</u>
m m d d y y y y | <u>01/31/2022</u>
m m d d y y y y |
| Time | c. <u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <u>04:00</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m. |
| 12. Sediment in well bottom | <u> </u> inches | <u> </u> inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10
Turbid <input type="checkbox"/> 15
(Describe) <u>muddy,</u> | Clear <input type="checkbox"/> 20
Turbid <input checked="" type="checkbox"/> 25
(Describe) <u>murky,</u> |
| Fill in if drilling fluids were used and well is at solid waste facility: | | |
| 14. Total suspended solids | <u>N/A</u> mg/l | <u>N/A</u> mg/l |
| 15. COD | <u>N/A</u> mg/l | <u>N/A</u> mg/l |

16. Well developed by: Name (first, last) and Firm

First Name: Me'lissa Last Name: Greene

Firm: The Sigma Group

17. Additional comments on development:
*petroleum odor, shine & turbid.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Lee Last Name: DeLoore

Facility/Firm: WDNR

Street: 1027 W St. Paul Ave

City/State/Zip: Milwaukee, WI, 53233

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

Signature: [Signature]

Print Name: Me'lissa Greene

Firm: The Sigma Group

ATTACHMENT 5
Waste Disposal Manifests

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number W I D 0 2 0 0 6 3 6 2 6	2. Page 1 of 1	3. Emergency Response Phone (375) 812-0027	4. Manifest Tracking Number 002026664 VES						
5. Generator's Name and Mailing Address TOM WENTLAND (DNR) WISCONSIN DNR - MOSS-AMERICA CO 1155 PILGRIM ROAD PLYMOUTH, WI 53073 Generator's Phone: 920-893-8548				Generator's Site Address (if different than mailing address) 8716 GRANVILLE RD MILWAUKEE, WI 53224							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number N I D 0 2 0 0 6 3 1 3 6 9							
7. Transporter 2 Company Name				U.S. EPA ID Number							
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 7665 HIGHWAY 73 BEAUMONT, TX 77705 Facility's Phone: 409-734-2821				U.S. EPA ID Number T X D 0 0 0 8 3 8 2 9 6							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
	X	1. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (K001, F034), 9, III, RQ		1 7 D M		955	G	F034			
	X	2. NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (K001, F034), 9, III, RQ		4 D M		20	P	K001	OUTS19H		
		3.						F034			
		4.						K001	OUTS409H		
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS + OUS36190 *V3* + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) W 657967 A.PTA657967L. 2) W:1032778 A.PTA001032778											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offoror's Printed/Typed Name					Signature			Month	Day	Year	
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
	17. Transporter Acknowledgment of Receipt of Materials										
TRANSPORTER	Transporter 1 Printed/Typed Name					Signature			Month	Day	Year
	Transporter 2 Printed/Typed Name					Signature			Month	Day	Year
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number										
	Facility's Phone: _____										
18c. Signature of Alternate Facility (or Generator)								Month	Day	Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1.		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name					Signature			Month	Day	Year	

Read all instructions before completing this form.

1. Federal regulations require generators and transporters of hazardous waste and owners or operators of receiving facilities designated on the manifest to complete this form (EPA Form 8700-22) and, if necessary, the continuation sheet (EPA Form 8700-22A) for both inter- and intrastate transportation of hazardous waste.
2. This manifest reflects formatting changes made by U.S. EPA in December 2017. Beginning on June 30, 2018, this manifest (Revision 12-17) must be used and all previous editions are prohibited. Go to www.epa.gov/e-manifest for additional information.
3. This form must be purchased from a registered printer (<https://www.epa.gov/hwgenerators/approved-registered-printers-epas-manifest-registry#how>) and has been designed to be filled out using standard computer printers; a firm point pen may also be used—press down hard. After June 30, 2018, this form can also be completed electronically in EPA's e-Manifest system.

The public burden related to the Uniform Hazardous Waste Manifest, which is approved under OMB 2050-0039, is estimated to average (per manifest) 60 minutes for generators; 20 minutes for transporters; and 30 minutes for owners and operators of receiving facilities designated on the manifest. This is a mandatory collection under 40 CFR Part 262, Subpart B; 40 CFR Part 263, Subpart B; and 40 CFR Parts 264 and 265, Subpart E. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The completed form should be submitted in accordance with the instructions accompanying the form, or as specified in the corresponding regulation. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of e-Manifest, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2622T), 1500 Pennsylvania Ave., NW, Washington, D.C. 20460. Please include the OMB control number in any correspondence. Do NOT send the completed manifest forms to this address. Privacy Act Statement - None of the information collected under the Manifest Program is considered Personally Identifiable Information (PII) or Confidential Business Information (CBI).

I. Instructions for Generators

Item 1. Generator's U.S. EPA Identification Number

Enter the generator's U.S. EPA twelve-digit identification number, or the state generator identification number if the generator site does not have an EPA identification number.

Item 2. Page 1 of ____

Enter the total number of pages used to complete this manifest (i.e., the first page (EPA Form 8700-22) plus the number of continuation sheets (EPA Form 8700-22A), if any).

Item 3. Emergency Response Phone Number

Enter a phone number for which emergency response information can be obtained in the event of an incident during transportation. The emergency response phone number must:

1. Be the number of the generator or the number of an agency or organization who is capable of and accepts responsibility for providing detailed information about the shipment;
2. Reach a phone that is monitored 24 hours a day at all times the waste is in transportation (including transportation related storage); and
3. Reach someone who is either knowledgeable of the hazardous waste being shipped and has comprehensive emergency response and spill cleanup/incident mitigation information for the material being shipped or has immediate access to a person who has that knowledge and information about the shipment.

Note: Emergency Response phone number information should only be entered in Item 3 when there is one phone number that applies to all the waste materials described in Item 9b. If a situation (e.g., consolidated shipments) arises where more than one Emergency Response phone number applies to the various wastes listed on the manifest, the phone numbers associated with each specific material should be entered after its description in Item 9b.

Item 4. Manifest Tracking Number

This unique tracking number must be pre-printed on the manifest by the forms printer.

Item 5. Generator's Mailing Address, Phone Number and Site Address

Enter the name of the generator, the mailing address to which the completed manifest signed by the designated facility should be mailed, and the generator's telephone number. Note, the telephone number (including area code) should be the normal business number for the generator, or the number where the generator or his authorized agent may be reached to provide instructions in the event the designated and/or alternate (if any) facility rejects some or all of the shipment. Also enter the physical site address from which the shipment originates only if this address is different than the mailing address.

Item 6. Transporter 1 Company Name, and U.S. EPA ID Number

Enter the company name and U.S. EPA ID number of the first transporter who will transport the waste. Vehicle or driver information may not be entered here.

Item 7. Transporter 2 Company Name and U.S. EPA ID Number

If applicable, enter the company name and U.S. EPA ID number of the second transporter who will transport the waste. Vehicle or driver information may not be entered here.

If more than two transporters are needed, use a continuation sheet(s) (EPA Form 8700-22A).

Item 8. Designated Facility Name, Site Address, and U.S. EPA ID Number

Enter the company name and site address of the facility designated to receive the waste listed on this manifest. Also enter the facility's phone number and the U.S. EPA twelve-digit identification number of the facility.

Item 9. U.S. DOT Description (Including Proper Shipping Name, Hazard Class or Division, Identification Number, and Packing Group)

Item 9a. If the wastes identified in Item 9b consist of both hazardous and nonhazardous materials, then identify the hazardous materials by entering an "X" in this Item next to the corresponding hazardous material identified in Item 9b.

Item 9b. Enter the U.S. DOT Proper Shipping Name, Hazard Class or Division, Identification Number (UN/NA) and Packing Group for each waste as identified in 49 CFR part 172. Include technical name(s) and reportable quantity references, if applicable.

Note: If additional space is needed for waste descriptions, enter these additional descriptions in Item 27 on the continuation sheet (EPA Form 8700-22A). Also, if more than one Emergency Response phone number applies to the various wastes described in either Item 9b or Item 27, enter applicable Emergency Response phone numbers immediately following the shipping descriptions for those items.

Item 10. Containers (Number and Type)

Enter the number of containers for each waste and the appropriate abbreviation from Table I (below) for the type of container.

TABLE I.—TYPES OF CONTAINERS

BA = Burlap, cloth, paper, or plastic bags.	DT = Dump truck.
CF = Fiber or plastic boxes, cartons, cases.	DW = Wooden drums, barrels, kegs.
CM = Metal boxes, cartons, cases (including roll-offs).	HG = Hopper or gondola cars.
CW = Wooden boxes, cartons, cases.	TC = Tank cars.
CY = Cylinders.	TP = Portable tanks.
DF = Fiberboard or plastic drums, barrels, kegs.	TT = Cargo tanks (tank trucks).
DM = Metal drums, barrels, kegs.	

Item 11. Total Quantity

Enter, in designated boxes, the total quantity of waste. Round partial units to the nearest whole unit, and do not enter decimals or fractions. To the extent practical, report quantities using appropriate units of measure that will allow you to report quantities with precision. Waste quantities entered should be based on actual measurements or reasonably accurate estimates of actual quantities shipped. Container capacities are not acceptable as estimates.

Item 12. Units of Measure (Weight/Volume)

Enter, in designated boxes, the appropriate abbreviation from Table II (below) for the unit of measure.

TABLE II.—UNITS OF MEASURE

G = Gallons (liquids only).	N = Cubic Meters.
K = Kilograms.	P = Pounds.
L = Liters (liquids only).	T = Tons (2000 Pounds).
M = Metric Tons (1000 kilograms).	Y = Cubic Yards.

Note: Tons, Metric Tons, Cubic Meters, and Cubic Yards should only be reported for very large bulk shipments, such as rail cars, tank trucks, or barges.

Item 13. Waste Codes

Enter up to six federal and state waste codes to describe each waste stream identified in Item 9b. State waste codes that are not redundant with federal codes must be entered here, in addition to the federal waste codes which are most representative of the properties of the waste.

Item 14. Special Handling Instructions and Additional Information

1. Generators may enter any special handling or shipment-specific information necessary for the proper management or tracking of the materials under the generator's or other handler's business processes, such as waste profile numbers, container codes, bar codes, or response guide numbers. Generators also may use this space to enter additional descriptive information about their shipped materials, such as chemical names, constituent percentages, physical state, or specific gravity of wastes identified with volume units in Item 12.
2. This space may be used to record limited types of federally required information for which there is no specific space provided on the manifest, including any alternate facility designations; the manifest tracking number of the original manifest for rejected wastes and residues that are re-shipped under a second manifest; and the specification of polychlorinated biphenyl (PCB) waste descriptions and PCB out-of-service dates required under 40 CFR 761.207. Generators, however, cannot be required to enter information in this space to meet state regulatory requirements.

Item 15. Generator's/Officer's Certifications

1. The generator must read, sign, and date the waste minimization certification statement. In signing the waste minimization certification statement, those generators who have not been exempted by statute or regulation from the duty to make a waste minimization certification under section 3002(b) of RCRA are also certifying that they have complied with the waste minimization requirements. The Generator's Certification also contains the required attestation that the shipment has been properly prepared and is in proper condition for transportation (the shipper's certification). The content of the shipper's certification statement is as follows: "I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent." When a party other than the generator prepares the shipment for transportation, this party may also sign the shipper's certification statement as the offeror of the shipment.
2. Generator or Offeror personnel may preprint the words, "On behalf of" in the signature block or may hand write this statement in the signature block prior to signing the generator/officer certification, to indicate that the individual signs as the employee or agent of the named principal.

Note: All of the above information except the handwritten signature required in Item 15 may be pre-printed. (Handwritten signatures are not applicable if the generator is preparing and signing an electronic manifest using EPA's e-Manifest system.)

Transportation Activity Report

BT Acnt ID (Cust#) 7134 (534640)

BILL TO: WISC DEPT OF NATURAL RESOURCES
 1155 PILGRIM RD
 PLYMOUTH, WI 53073
 (920) 893-8528

CONTACT: TOM WENTLAND (DNR)

MANIFEST NUMBER(S):
 002026664VES

JOB TRK: J-447-B8C-8C00

JOB NO: 3894660000

BILL DOC NO: V820210877

SL Acnt ID (Gen#): 48145 (839076)

WO NO: 3894660000

EPA ID: WID039052626

JOB SITE: WISCONSIN DNR - MOSS-AMERICA CO
 8716 GRANVILLE RD
 MILWAUKEE, WI 53224
 (920) 893-8528

CONTACT: TOM WENTLAND (DNR)

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		02/10/2022	W38

TOTAL LOADING DEMURRAGE (HRS)	COMMENTS	TOTAL UNLOADING DEMURRAGE (HRS)
START TIME: _____ END TIME: _____ TOTAL (HRS): _____	UNIT IN #: _____ UNIT OUT #: _____ WASHOUT: YES / NO USED: 0 / 1 / 2 / 3 LINERS	START TIME: _____ END TIME: _____ TOTAL (HRS): _____

SIGNATURES		DATES
CUSTOMER		02/11/22
DRIVER		02/11/22

COMMENTS OR DELAY EXPLANATIONS:

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform the Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

Veolia ES Technical Solutions, L.L.C. is permitted for and has capacity to accept waste listed above in container quantities

Land Disposal Restriction Notification Form

Generator Name WISCONSIN DNR - MOSS-AMERICA CO

EPA ID Number WID039052626

Manifest 002026864VES

This notice is being provided in accordance with 40 CFR 268.7 to inform you that this shipment contains waste restricted from land disposal by the USEPA under the land disposal restriction program. Identified below for each container is the designation of the waste as a wastewater or non-wastewater, the Clean Water Act (CWA) permit status associated with the treatment/disposal facility, applicable waste codes and any corresponding subcategories, list of any F001-F005 solvent constituents that are present in the waste, and any underlying hazardous constituents (UHC) that are present.

Container Number: **V8-3894660000-001 (1/ 1)**

WIP / Approval Code: **657967 / PTA657967L**
Form Designation / CWA Status: **Non-Wastewater / Non-CWA**
Waste Codes (Subcategories): **F034, K001**
Constituents (F001 - F005): **None**
UHCs Present: **Not Applicable**
Treatment Requirements: **Restricted waste requires treatment to applicable standards.**
Additional Notices:

Container Number: **V8-3894660000-002 (1/ 2)**

WIP / Approval Code: **1032778 / PTA001032778**
Form Designation / CWA Status: **Non-Wastewater / Non-CWA**
Waste Codes (Subcategories): **F034, K001**
Constituents (F001 - F005): **None**
UHCs Present: **Not Applicable**
Treatment Requirements: **Restricted waste requires treatment to applicable standards.**
Additional Notices:

I hereby certify that all information in this and associated land disposal restriction documents is complete and accurate to the best of my knowledge and information.

Signature 

Title _____

Date 2/11/01

ATTACHMENT 6

Photographs

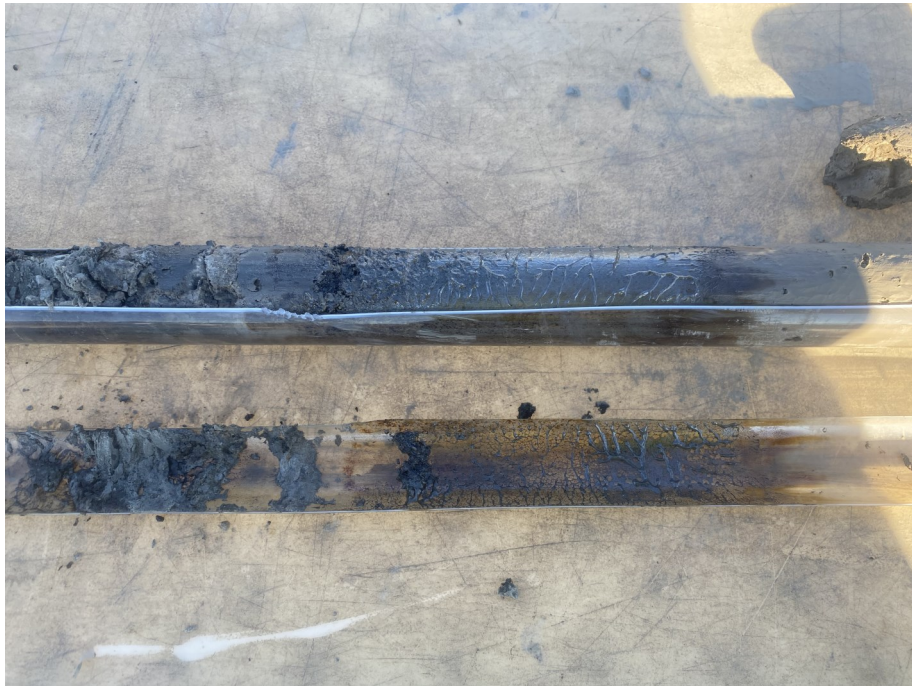


Photo 1: Soil boring GP-127, depth interval 5-10' bgs, close-up. Dark grey silty clay with trace free product. Photograph taken on January 20, 2022.



Photo 2: Soil boring GP-134, depth interval 5-10' bgs, close-up. Well graded gray, clayey gravel with some sand and trace free product. Photograph taken on January 20, 2022.

ATTACHMENT 7

Soil Laboratory Analytical Report

Synergy Environmental Lab, LLC.

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

STEVEN KIKKERT
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 04-Feb-22

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464A
Sample ID GP-126 2-4
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	79.5	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/26/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/26/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/26/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/26/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/26/2022	CJR	1
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	1/26/2022	1/26/2022	NJC	1
Acenaphthylene	0.0303 "J"	mg/kg	0.009	0.035	1	M8270C	1/26/2022	1/26/2022	NJC	1
Anthracene	0.05	mg/kg	0.0071	0.027	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(a)anthracene	0.0243 "J"	mg/kg	0.0139	0.053	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(a)pyrene	0.043 "J"	mg/kg	0.0143	0.055	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(b)fluoranthene	0.067	mg/kg	0.008	0.031	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(g,h,i)perylene	0.057	mg/kg	0.0125	0.048	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(k)fluoranthene	0.027 "J"	mg/kg	0.0076	0.029	1	M8270C	1/26/2022	1/26/2022	NJC	1
Chrysene	0.0303 "J"	mg/kg	0.0142	0.055	1	M8270C	1/26/2022	1/26/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	1/26/2022	1/26/2022	NJC	1
Fluoranthene	0.064	mg/kg	0.008	0.031	1	M8270C	1/26/2022	1/26/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	1/26/2022	1/26/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.06	mg/kg	0.0152	0.058	1	M8270C	1/26/2022	1/26/2022	NJC	1
1-Methyl naphthalene	0.0134 "J"	mg/kg	0.0118	0.045	1	M8270C	1/26/2022	1/26/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	1/26/2022	1/26/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	1/26/2022	1/26/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464A
Sample ID GP-126 2-4
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Phenanthrene	0.042	mg/kg	0.0089	0.034	1	M8270C	1/26/2022	1/26/2022	NJC	1
Pyrene	0.055	mg/kg	0.007	0.027	1	M8270C	1/26/2022	1/26/2022	NJC	1

Lab Code 5040464B
Sample ID GP-126 10-12
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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General

General

Solids Percent	89.7	%			1	5021		1/24/2022	NJC	1
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Organic

BTEX

Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/26/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/26/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/26/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/26/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/26/2022	CJR	1

General

Diesel Range Organics	< 10	mg/kg	1.3	4.14	1	DRO95		1/28/2022	NJC	1
Gasoline Range Organics	< 10	mg/kg	2.6	8.36	1	GRO95/8021		1/26/2022	CJR	1

PAH SIM

Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	1/26/2022	1/26/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	1/26/2022	1/26/2022	NJC	1
Anthracene	0.0241 "J"	mg/kg	0.0071	0.027	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(a)anthracene	0.0305 "J"	mg/kg	0.0139	0.053	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(a)pyrene	0.0258 "J"	mg/kg	0.0143	0.055	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(b)fluoranthene	0.047	mg/kg	0.008	0.031	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(g,h,i)perylene	0.0174 "J"	mg/kg	0.0125	0.048	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(k)fluoranthene	0.0261 "J"	mg/kg	0.0076	0.029	1	M8270C	1/26/2022	1/26/2022	NJC	1
Chrysene	0.058	mg/kg	0.0142	0.055	1	M8270C	1/26/2022	1/26/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	1/26/2022	1/26/2022	NJC	1
Fluoranthene	0.146	mg/kg	0.008	0.031	1	M8270C	1/26/2022	1/26/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	1/26/2022	1/26/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.0217 "J"	mg/kg	0.0152	0.058	1	M8270C	1/26/2022	1/26/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	1/26/2022	1/26/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	1/26/2022	1/26/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	1/26/2022	1/26/2022	NJC	1
Phenanthrene	0.0135 "J"	mg/kg	0.0089	0.034	1	M8270C	1/26/2022	1/26/2022	NJC	1
Pyrene	0.115	mg/kg	0.007	0.027	1	M8270C	1/26/2022	1/26/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464C
Sample ID GP-128 2-4
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	60.1	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/26/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/26/2022	CJR	1
Toluene	0.033 "J"	mg/kg	0.016	0.061	1	GRO95/8021		1/26/2022	CJR	1
m&p-Xylene	0.052 "J"	mg/kg	0.039	0.15	1	GRO95/8021		1/26/2022	CJR	1
o-Xylene	0.047 "J"	mg/kg	0.014	0.055	1	GRO95/8021		1/26/2022	CJR	1
PAH SIM										
Acenaphthene	1.58	mg/kg	0.22	0.84	20	M8270C	1/26/2022	1/27/2022	NJC	1
Acenaphthylene	19.2	mg/kg	0.18	0.7	20	M8270C	1/26/2022	1/27/2022	NJC	1
Anthracene	49.0	mg/kg	0.142	0.54	20	M8270C	1/26/2022	1/27/2022	NJC	1
Benzo(a)anthracene	10.2	mg/kg	0.278	1.06	20	M8270C	1/26/2022	1/27/2022	NJC	1
Benzo(a)pyrene	33.0	mg/kg	0.286	1.1	20	M8270C	1/26/2022	1/27/2022	NJC	1
Benzo(b)fluoranthene	44.0	mg/kg	0.16	0.62	20	M8270C	1/26/2022	1/27/2022	NJC	1
Benzo(g,h,i)perylene	78.0	mg/kg	0.25	0.96	20	M8270C	1/26/2022	1/27/2022	NJC	1
Benzo(k)fluoranthene	5.30	mg/kg	0.152	0.58	20	M8270C	1/26/2022	1/27/2022	NJC	1
Chrysene	8.40	mg/kg	0.284	1.1	20	M8270C	1/26/2022	1/27/2022	NJC	1
Dibenzo(a,h)anthracene	12.0	mg/kg	0.272	1.04	20	M8270C	1/26/2022	1/27/2022	NJC	1
Fluoranthene	23.3	mg/kg	0.16	0.62	20	M8270C	1/26/2022	1/27/2022	NJC	1
Fluorene	2.07	mg/kg	0.182	0.7	20	M8270C	1/26/2022	1/27/2022	NJC	1
Indeno(1,2,3-cd)pyrene	91.0	mg/kg	0.304	1.16	20	M8270C	1/26/2022	1/27/2022	NJC	1
1-Methyl naphthalene	1.13	mg/kg	0.236	0.9	20	M8270C	1/26/2022	1/27/2022	NJC	1
2-Methyl naphthalene	2.29	mg/kg	0.372	1.42	20	M8270C	1/26/2022	1/27/2022	NJC	1
Naphthalene	6.70	mg/kg	0.402	1.54	20	M8270C	1/26/2022	1/27/2022	NJC	1
Phenanthrene	18.4	mg/kg	0.178	0.68	20	M8270C	1/26/2022	1/27/2022	NJC	1
Pyrene	19.5	mg/kg	0.14	0.54	20	M8270C	1/26/2022	1/27/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464D
Sample ID GP-128 6-8
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.7	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
General										
Diesel Range Organics	< 10	mg/kg	1.3	4.14	1	DRO95		1/28/2022	NJC	1
Gasoline Range Organics	< 10	mg/kg	2.6	8.36	1	GRO95/8021		1/26/2022	CJR	1
PAH SIM										
Acenaphthene	0.088	mg/kg	0.011	0.042	1	M8270C	1/26/2022	1/26/2022	NJC	1
Acenaphthylene	0.09	mg/kg	0.009	0.035	1	M8270C	1/26/2022	1/26/2022	NJC	1
Anthracene	0.044	mg/kg	0.0071	0.027	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(a)pyrene	0.045 "J"	mg/kg	0.0143	0.055	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(b)fluoranthene	0.0081 "J"	mg/kg	0.008	0.031	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(g,h,i)perylene	0.036 "J"	mg/kg	0.0125	0.048	1	M8270C	1/26/2022	1/26/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	1/26/2022	1/26/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	1/26/2022	1/26/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	1/26/2022	1/26/2022	NJC	1
Fluoranthene	0.0083 "J"	mg/kg	0.008	0.031	1	M8270C	1/26/2022	1/26/2022	NJC	1
Fluorene	0.083	mg/kg	0.0091	0.035	1	M8270C	1/26/2022	1/26/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.034 "J"	mg/kg	0.0152	0.058	1	M8270C	1/26/2022	1/26/2022	NJC	1
1-Methyl naphthalene	0.0302 "J"	mg/kg	0.0118	0.045	1	M8270C	1/26/2022	1/26/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	1/26/2022	1/26/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	1/26/2022	1/26/2022	NJC	1
Phenanthrene	0.0303 "J"	mg/kg	0.0089	0.034	1	M8270C	1/26/2022	1/26/2022	NJC	1
Pyrene	0.0249 "J"	mg/kg	0.007	0.027	1	M8270C	1/26/2022	1/26/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464E
Sample ID GP-129 8-10
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.9	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/26/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/26/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/26/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/26/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/26/2022	CJR	1
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.0198 "J"	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	< 0.0089	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.0256 "J"	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464F
Sample ID GP-129 12-14
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.9	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
General										
Diesel Range Organics	15.1	mg/kg	1.3	4.14	1	DRO95		1/28/2022	NJC	1
Gasoline Range Organics	< 10	mg/kg	2.6	8.36	1	GRO95/8021		1/26/2022	CJR	1
PAH SIM										
Acenaphthene	4.60	mg/kg	0.022	0.084	2	M8270C	2/3/2022	2/4/2022	NJC	1
Acenaphthylene	0.05 "J"	mg/kg	0.018	0.07	2	M8270C	2/3/2022	2/4/2022	NJC	1
Anthracene	1.55	mg/kg	0.0142	0.054	2	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(a)anthracene	0.69	mg/kg	0.0278	0.106	2	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(a)pyrene	0.213	mg/kg	0.0286	0.11	2	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(b)fluoranthene	0.34	mg/kg	0.016	0.062	2	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(g,h,i)perylene	0.071 "J"	mg/kg	0.025	0.096	2	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(k)fluoranthene	0.155	mg/kg	0.0152	0.058	2	M8270C	2/3/2022	2/4/2022	NJC	1
Chrysene	0.73	mg/kg	0.0284	0.11	2	M8270C	2/3/2022	2/4/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0272	mg/kg	0.0272	0.104	2	M8270C	2/3/2022	2/4/2022	NJC	1
Fluoranthene	4.40	mg/kg	0.016	0.062	2	M8270C	2/3/2022	2/4/2022	NJC	1
Fluorene	3.60	mg/kg	0.0182	0.07	2	M8270C	2/3/2022	2/4/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.102 "J"	mg/kg	0.0304	0.116	2	M8270C	2/3/2022	2/4/2022	NJC	1
1-Methyl naphthalene	1.39	mg/kg	0.0236	0.09	2	M8270C	2/3/2022	2/4/2022	NJC	1
2-Methyl naphthalene	2.55	mg/kg	0.0372	0.142	2	M8270C	2/3/2022	2/4/2022	NJC	1
Naphthalene	4.50	mg/kg	0.0402	0.154	2	M8270C	2/3/2022	2/4/2022	NJC	1
Phenanthrene	9.00	mg/kg	0.0178	0.068	2	M8270C	2/3/2022	2/4/2022	NJC	1
Pyrene	3.00	mg/kg	0.014	0.054	2	M8270C	2/3/2022	2/4/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464G
Sample ID GP-130 8-10
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	0.0097 "J"	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.0196 "J"	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	0.047 "J"	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	0.036 "J"	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.056	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	0.04 "J"	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	0.0197 "J"	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	0.049 "J"	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.171	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.048 "J"	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	0.0151 "J"	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.131	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464H
Sample ID GP-130 10-12
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.6	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
General										
Diesel Range Organics	< 10	mg/kg	1.3	4.14	1	DRO95		1/28/2022	NJC	1
Gasoline Range Organics	< 10	mg/kg	2.6	8.36	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	0.048	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.0116 "J"	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	0.0261 "J"	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.0212 "J"	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	0.0093 "J"	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	0.02 "J"	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.091	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	0.0275 "J"	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	0.0256 "J"	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.073	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464I
Sample ID GP-131 2-4
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	0.0189 "J"	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.04	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	0.043 "J"	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	0.035 "J"	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.069	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	0.076	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	0.03	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	0.059	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.081	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.073	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	0.044	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.083	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464J
Sample ID GP-131 8-10
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
General										
Diesel Range Organics	< 10	mg/kg	1.3	4.14	1	DRO95		1/28/2022	NJC	1
Gasoline Range Organics	< 10	mg/kg	2.6	8.36	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	2.02	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	0.052	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.52	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	0.55	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	0.33	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.50	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	0.205	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	0.162	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	0.56	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	0.039 "J"	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	3.13	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	1.41	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.262	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	0.031 "J"	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	0.0231 "J"	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	0.061 "J"	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	0.309	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	2.15	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464K
Sample ID GP-132 0-2
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.6	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.0081 "J"	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.0142 "J"	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	0.0146 "J"	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.0142 "J"	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	0.0107 "J"	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.0117 "J"	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464L
Sample ID GP-132 10-12
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.9	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	0.0232 "J"	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.0124 "J"	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	0.053 "J"	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	0.0195 "J"	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.035	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	0.0154 "J"	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	0.055	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.128	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	0.0176 "J"	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	0.033 "J"	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.111	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464M
Sample ID GP-133 4-6
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.5	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	< 0.0089	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	< 0.007	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464N
Sample ID GP-133 10-12
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	62.6	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
General										
Diesel Range Organics	< 10	mg/kg	1.3	4.14	1	DRO95		1/28/2022	NJC	1
Gasoline Range Organics	< 10	mg/kg	2.6	8.36	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.0123 "J"	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	0.0263 "J"	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	0.0155 "J"	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.0228 "J"	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	0.018 "J"	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	0.012 "J"	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	0.0205 "J"	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.062	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.0186 "J"	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	< 0.0089	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.067	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 50404640
Sample ID GP-134 4-6
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	< 0.025	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	0.34	mg/kg	0.011	0.042	1	M8270C	2/3/2022	2/3/2022	NJC	1
Acenaphthylene	0.131	mg/kg	0.009	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Anthracene	0.295	mg/kg	0.0071	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)anthracene	0.132	mg/kg	0.0139	0.053	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(a)pyrene	0.70	mg/kg	0.0143	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(b)fluoranthene	0.51	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(g,h,i)perylene	0.71	mg/kg	0.0125	0.048	1	M8270C	2/3/2022	2/3/2022	NJC	1
Benzo(k)fluoranthene	0.108	mg/kg	0.0076	0.029	1	M8270C	2/3/2022	2/3/2022	NJC	1
Chrysene	0.162	mg/kg	0.0142	0.055	1	M8270C	2/3/2022	2/3/2022	NJC	1
Dibenzo(a,h)anthracene	0.119	mg/kg	0.0136	0.052	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluoranthene	0.35	mg/kg	0.008	0.031	1	M8270C	2/3/2022	2/3/2022	NJC	1
Fluorene	0.199	mg/kg	0.0091	0.035	1	M8270C	2/3/2022	2/3/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.89	mg/kg	0.0152	0.058	1	M8270C	2/3/2022	2/3/2022	NJC	1
1-Methyl naphthalene	0.125	mg/kg	0.0118	0.045	1	M8270C	2/3/2022	2/3/2022	NJC	1
2-Methyl naphthalene	0.192	mg/kg	0.0186	0.071	1	M8270C	2/3/2022	2/3/2022	NJC	1
Naphthalene	0.86	mg/kg	0.0201	0.077	1	M8270C	2/3/2022	2/3/2022	NJC	1
Phenanthrene	0.315	mg/kg	0.0089	0.034	1	M8270C	2/3/2022	2/3/2022	NJC	1
Pyrene	0.299	mg/kg	0.007	0.027	1	M8270C	2/3/2022	2/3/2022	NJC	1

Project Name MOSS AMERICAN
Project # 18687

Invoice # E40464

Lab Code 5040464P
Sample ID GP-134 10-12
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.8	%			1	5021		1/24/2022	NJC	1
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.016	0.062	1	GRO95/8021		1/27/2022	CJR	1
Ethylbenzene	0.044 "J"	mg/kg	0.015	0.059	1	GRO95/8021		1/27/2022	CJR	1
Toluene	< 0.025	mg/kg	0.016	0.061	1	GRO95/8021		1/27/2022	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.039	0.15	1	GRO95/8021		1/27/2022	CJR	1
o-Xylene	0.047 "J"	mg/kg	0.014	0.055	1	GRO95/8021		1/27/2022	CJR	1
PAH SIM										
Acenaphthene	33.0	mg/kg	0.22	0.84	20	M8270C	2/3/2022	2/4/2022	NJC	1
Acenaphthylene	0.34 "J"	mg/kg	0.18	0.7	20	M8270C	2/3/2022	2/4/2022	NJC	1
Anthracene	8.80	mg/kg	0.142	0.54	20	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(a)anthracene	4.70	mg/kg	0.278	1.06	20	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(a)pyrene	1.26	mg/kg	0.286	1.1	20	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(b)fluoranthene	2.00	mg/kg	0.16	0.62	20	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(g,h,i)perylene	0.38 "J"	mg/kg	0.25	0.96	20	M8270C	2/3/2022	2/4/2022	NJC	1
Benzo(k)fluoranthene	0.96	mg/kg	0.152	0.58	20	M8270C	2/3/2022	2/4/2022	NJC	1
Chrysene	4.50	mg/kg	0.284	1.1	20	M8270C	2/3/2022	2/4/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.272	mg/kg	0.272	1.04	20	M8270C	2/3/2022	2/4/2022	NJC	1
Fluoranthene	32.0	mg/kg	0.16	0.62	20	M8270C	2/3/2022	2/4/2022	NJC	1
Fluorene	28.7	mg/kg	0.182	0.7	20	M8270C	2/3/2022	2/4/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.50 "J"	mg/kg	0.304	1.16	20	M8270C	2/3/2022	2/4/2022	NJC	1
1-Methyl naphthalene	12.3	mg/kg	0.236	0.9	20	M8270C	2/3/2022	2/4/2022	NJC	1
2-Methyl naphthalene	14.2	mg/kg	0.372	1.42	20	M8270C	2/3/2022	2/4/2022	NJC	1
Naphthalene	21.4	mg/kg	0.402	1.54	20	M8270C	2/3/2022	2/4/2022	NJC	1
Phenanthrene	76.0	mg/kg	0.178	0.68	20	M8270C	2/3/2022	2/4/2022	NJC	1
Pyrene	21.6	mg/kg	0.14	0.54	20	M8270C	2/3/2022	2/4/2022	NJC	1

Lab Code 5040464Q
Sample ID MEOH BLK
Sample Matrix Soil
Sample Date 1/20/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		1/31/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		1/31/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		1/31/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		1/31/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		1/31/2022	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code *Comment*

1 Laboratory QC within limits.

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

Authorized Signature



A handwritten signature in blue ink, appearing to read "Michael J. [unclear]", is written over a horizontal line.

Environmental Lab, Inc.

www.synergy-lab.net

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Sample Handling Request

Rush Analysis Date Required: _____

(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
 QUOTE # : WDNR
 Project #: 18687
 Sampler: (signature) [Signature]

Project (Name / Location): Moss American
 Reports To: Steven Kikkert
 Company: The Sigma Group, Inc.
 Address: 1300 W. Canal St
 City State Zip: Milwaukee, WI 53233
 Phone: 414-643-4200
 Email: skikkert@thesigmagroup.com

Invoice To: _____
 Company: SA ME
 Address: _____
 City State Zip: _____
 Phone: _____
 Email: _____

Analysis Requested										Other Analysis									
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS	PID/FID				
					X									X	1.5				
X	X				X									X	0.5				
					X									X	0.6				
X	X				X									X	1.1				
					X									X	2.9				
X	X				X									X	2.0				
					X									X	1.8				
X	X				X									X	2.0				
					X									X	2.5				
X	X				X									X	1.8				
					X									X	7.4				
					X									X	2.3				

Lab I.D.	Sample I.D.	Collection		Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
		Date	Time				
<u>5040464A</u>	<u>GP-126 (2-4)</u>	<u>1/20</u>	<u>9:23</u>	<u>N</u>	<u>2</u>	<u>S (Soil)</u>	<u>MeOH</u>
<u>B</u>	<u>GP-126 (10-12)</u>		<u>9:33</u>		<u>3</u>		
<u>C</u>	<u>GP-128 (2-4)</u>		<u>10:07</u>		<u>2</u>		
<u>D</u>	<u>GP-128 (6-8)</u>		<u>10:12</u>		<u>3</u>		
<u>E</u>	<u>GP-129 (8-10)</u>		<u>10:52</u>		<u>2</u>		
<u>F</u>	<u>GP-129 (12-14)</u>		<u>10:57</u>		<u>3</u>		
<u>G</u>	<u>GP-130 (8-10)</u>		<u>11:12</u>		<u>2</u>		
<u>H</u>	<u>GP-130 (10-12)</u>		<u>11:19</u>		<u>3</u>		
<u>I</u>	<u>GP-131 (2-4)</u>		<u>11:26</u>		<u>2</u>		
<u>J</u>	<u>GP-131 (8-10)</u>		<u>11:29</u>		<u>3</u>		
<u>K</u>	<u>GP-132 (0-2)</u>		<u>11:54</u>		<u>2</u>		
<u>L</u>	<u>GP-132 (10-12)</u>		<u>12:04</u>		<u>2</u>		

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

Sample Integrity - To be completed by receiving lab.
 Method of Shipment: CS
 Temp. of Temp. Blank: _____ °C On Ice:
 Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) [Signature] Time 12:30 Date 1/21
 Received By: (sign) _____ Time _____ Date _____
 Received in Laboratory By: [Signature] Time: 1400 Date: 1/22/22

Environmental Lab, Inc.

www.synergy-lab.net
 1990 Prospect Ct. • Appleton, WI 54914
 920-830-2455 • mrsynergy@wi.twcbc.com

Sample Handling Request

Rush Analysis Date Required: _____
 (Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. # _____
 QUOTE #: WONR
 Project #: 18687
 Sampler: (signature) [Signature]

Project (Name / Location): Moss American
 Reports To: Steven Kikkert
 Company: The Sigma Group, Inc.
 Address: 1300 W. Canal St.
 City State Zip: Milwaukee, WI, 53233
 Phone: 414 643 4200
 Email: SKikkert@thesigmagroup.com

Invoice To: _____
 Company: _____
 Address: SAME
 City State Zip: _____
 Phone: _____
 Email: _____

Analysis Requested										Other Analysis									
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS	PID/ FID				
	X	X												X	1.4				
	X	X												X	1.6				
														X	2.2				
														X	13.0				
														X					
														X					

Lab I.D.	Sample I.D.	Collection		Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
		Date	Time				
S040164M	GP-133(4-6)	1/20/22	12:46	N	2	S (Soil)	MeOH
N	GP-133(10-12)	↓	12:50	↓	3	↓	↓
O	GP-134(4-6)	↓	1:09	↓	2	↓	↓
P	GP-134(10-12)	↓	1:17	↓	2	↓	↓
Q	MeOH Blank	1/20		N	1		MeOH

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

Sample Integrity - To be completed by receiving lab.
 Method of Shipment: CS
 Temp. of Temp. Blank: _____ °C On Ice:
 Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) [Signature] Time 12:30 Date 1/21
 Received By: (sign) _____ Time _____ Date _____
 Received in Laboratory By: [Signature] Time: 1400 Date: 1/22/22

ATTACHMENT 8

Groundwater Laboratory Analytical Report

Synergy Environmental Lab, LLC.

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

STEVEN KIKKERT
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 11-Feb-22

Project Name FMR MOSS AMERICAN
Project # 18687

Invoice # E40484

Lab Code 5040484A
Sample ID PZ-03
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	< 0.77	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	< 0.44	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	53.0	ug/l	0.188	0.6	20	M8270C	2/9/2022	2/10/2022	NJC	1
Acenaphthylene	0.52 "J"	ug/l	0.312	0.99	20	M8270C	2/9/2022	2/10/2022	NJC	1
Anthracene	0.65 "J"	ug/l	0.3	0.956	20	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)anthracene	< 0.40	ug/l	0.4	1.34	20	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)pyrene	< 0.334	ug/l	0.334	1.062	20	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(b)fluoranthene	< 0.32	ug/l	0.32	1.018	20	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(g,h,i)perylene	< 0.284	ug/l	0.284	0.902	20	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(k)fluoranthene	< 0.292	ug/l	0.292	0.926	20	M8270C	2/9/2022	2/10/2022	NJC	1
Chrysene	< 0.314	ug/l	0.314	0.998	20	M8270C	2/9/2022	2/10/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.346	ug/l	0.346	1.098	20	M8270C	2/9/2022	2/10/2022	NJC	1
Fluoranthene	0.53 "J"	ug/l	0.176	0.562	20	M8270C	2/9/2022	2/10/2022	NJC	1
Fluorene	19.9	ug/l	0.158	0.502	20	M8270C	2/9/2022	2/10/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.242	ug/l	0.242	0.77	20	M8270C	2/9/2022	2/10/2022	NJC	1
1-Methyl naphthalene	20.1	ug/l	0.382	1.218	20	M8270C	2/9/2022	2/10/2022	NJC	1
2-Methyl naphthalene	< 0.372	ug/l	0.372	1.18	20	M8270C	2/9/2022	2/10/2022	NJC	1
Naphthalene	4.30	ug/l	0.6	2	20	M8270C	2/9/2022	2/10/2022	NJC	1
Phenanthrene	2.77	ug/l	0.286	0.912	20	M8270C	2/9/2022	2/10/2022	NJC	1
Pyrene	0.40 "J"	ug/l	0.242	0.772	20	M8270C	2/9/2022	2/10/2022	NJC	1

Project Name FMR MOSS AMERICAN
 Project # 18687

Invoice # E40484

Lab Code 5040484B
 Sample ID PZ-03A
 Sample Matrix Water
 Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	< 0.77	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	< 0.44	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	22.3	ug/l	0.047	0.15	5	M8270C	2/9/2022	2/10/2022	NJC	1
Acenaphthylene	0.13 "J"	ug/l	0.078	0.2475	5	M8270C	2/9/2022	2/10/2022	NJC	1
Anthracene	0.42	ug/l	0.075	0.239	5	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)anthracene	0.172 "J"	ug/l	0.1	0.335	5	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)pyrene	0.171 "J"	ug/l	0.0835	0.2655	5	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(b)fluoranthene	0.16 "J"	ug/l	0.08	0.2545	5	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(g,h,i)perylene	0.215 "J"	ug/l	0.071	0.2255	5	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(k)fluoranthene	0.152 "J"	ug/l	0.073	0.2315	5	M8270C	2/9/2022	2/10/2022	NJC	1
Chrysene	0.128 "J"	ug/l	0.0785	0.2495	5	M8270C	2/9/2022	2/10/2022	NJC	1
Dibenzo(a,h)anthracene	0.178 "J"	ug/l	0.0865	0.2745	5	M8270C	2/9/2022	2/10/2022	NJC	1
Fluoranthene	0.47	ug/l	0.044	0.1405	5	M8270C	2/9/2022	2/10/2022	NJC	1
Fluorene	5.10	ug/l	0.0395	0.1255	5	M8270C	2/9/2022	2/10/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.18 "J"	ug/l	0.0605	0.1925	5	M8270C	2/9/2022	2/10/2022	NJC	1
1-Methyl naphthalene	< 9.55	ug/l	0.0955	0.3045	5	M8270C	2/9/2022	2/10/2022	NJC	1
2-Methyl naphthalene	< 0.093	ug/l	0.093	0.295	5	M8270C	2/9/2022	2/10/2022	NJC	1
Naphthalene	< 0.15	ug/l	0.15	0.5	5	M8270C	2/9/2022	2/10/2022	NJC	1
Phenanthrene	0.313	ug/l	0.0715	0.228	5	M8270C	2/9/2022	2/10/2022	NJC	1
Pyrene	0.32	ug/l	0.0605	0.193	5	M8270C	2/9/2022	2/10/2022	NJC	1

Project Name FMR MOSS AMERICAN
Project # 18687

Invoice # E40484

Lab Code 5040484C
Sample ID PZ-03B
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	2.79 "J"	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	1.95	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	98.0	ug/l	0.47	1.5	50	M8270C	2/9/2022	2/10/2022	NJC	1
Acenaphthylene	< 0.78	ug/l	0.78	2.475	50	M8270C	2/9/2022	2/10/2022	NJC	1
Anthracene	0.99 "J"	ug/l	0.75	2.39	50	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)anthracene	< 1.00	ug/l	1	3.35	50	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)pyrene	< 0.835	ug/l	0.835	2.655	50	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(b)fluoranthene	< 0.80	ug/l	0.8	2.545	50	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(g,h,i)perylene	< 0.71	ug/l	0.71	2.255	50	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(k)fluoranthene	< 0.73	ug/l	0.73	2.315	50	M8270C	2/9/2022	2/10/2022	NJC	1
Chrysene	< 0.785	ug/l	0.785	2.495	50	M8270C	2/9/2022	2/10/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.865	ug/l	0.865	2.745	50	M8270C	2/9/2022	2/10/2022	NJC	1
Fluoranthene	1.58	ug/l	0.44	1.405	50	M8270C	2/9/2022	2/10/2022	NJC	1
Fluorene	17.1	ug/l	0.395	1.255	50	M8270C	2/9/2022	2/10/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.605	ug/l	0.605	1.925	50	M8270C	2/9/2022	2/10/2022	NJC	1
1-Methyl naphthalene	45.0	ug/l	0.955	3.045	50	M8270C	2/9/2022	2/10/2022	NJC	1
2-Methyl naphthalene	< 0.93	ug/l	0.93	2.95	50	M8270C	2/9/2022	2/10/2022	NJC	1
Naphthalene	148	ug/l	1.5	5	50	M8270C	2/9/2022	2/10/2022	NJC	1
Phenanthrene	1.68 "J"	ug/l	0.715	2.28	50	M8270C	2/9/2022	2/10/2022	NJC	1
Pyrene	0.95 "J"	ug/l	0.605	1.93	50	M8270C	2/9/2022	2/10/2022	NJC	1

Project Name FMR MOSS AMERICAN
 Project # 18687

Invoice # E40484

Lab Code 5040484D
 Sample ID PZ-03C
 Sample Matrix Water
 Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	< 0.77	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	< 0.44	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	67.0	ug/l	0.094	0.3	10	M8270C	2/9/2022	2/10/2022	NJC	1
Acenaphthylene	0.71	ug/l	0.156	0.495	10	M8270C	2/9/2022	2/10/2022	NJC	1
Anthracene	8.30	ug/l	0.15	0.478	10	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)anthracene	0.37 "J"	ug/l	0.2	0.67	10	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)pyrene	< 0.167	ug/l	0.167	0.531	10	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(b)fluoranthene	< 0.16	ug/l	0.16	0.509	10	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(g,h,i)perylene	< 0.142	ug/l	0.142	0.451	10	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(k)fluoranthene	< 0.146	ug/l	0.146	0.463	10	M8270C	2/9/2022	2/10/2022	NJC	1
Chrysene	0.34 "J"	ug/l	0.157	0.499	10	M8270C	2/9/2022	2/10/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.173	ug/l	0.173	0.549	10	M8270C	2/9/2022	2/10/2022	NJC	1
Fluoranthene	8.80	ug/l	0.088	0.281	10	M8270C	2/9/2022	2/10/2022	NJC	1
Fluorene	46.0	ug/l	0.079	0.251	10	M8270C	2/9/2022	2/10/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.121	ug/l	0.121	0.385	10	M8270C	2/9/2022	2/10/2022	NJC	1
1-Methyl naphthalene	24.5	ug/l	0.191	0.609	10	M8270C	2/9/2022	2/10/2022	NJC	1
2-Methyl naphthalene	24.5	ug/l	0.186	0.59	10	M8270C	2/9/2022	2/10/2022	NJC	1
Naphthalene	9.00	ug/l	0.3	1	10	M8270C	2/9/2022	2/10/2022	NJC	1
Phenanthrene	63.0	ug/l	0.143	0.456	10	M8270C	2/9/2022	2/10/2022	NJC	1
Pyrene	5.10	ug/l	0.121	0.386	10	M8270C	2/9/2022	2/10/2022	NJC	1

Project Name FMR MOSS AMERICAN
Project # 18687

Invoice # E40484

Lab Code 5040484E
Sample ID PZ-03D
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	0.50 "J"	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	0.95 "J"	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	0.74 "J"	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	64.0	ug/l	1.88	6	200	M8270C	2/9/2022	2/9/2022	NJC	1
Acenaphthylene	< 3.12	ug/l	3.12	9.9	200	M8270C	2/9/2022	2/9/2022	NJC	1
Anthracene	8.00 "J"	ug/l	3	9.56	200	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)anthracene	< 4.00	ug/l	4	13.4	200	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)pyrene	< 3.34	ug/l	3.34	10.62	200	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(b)fluoranthene	< 3.20	ug/l	3.2	10.18	200	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(g,h,i)perylene	< 2.84	ug/l	2.84	9.02	200	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(k)fluoranthene	< 2.92	ug/l	2.92	9.26	200	M8270C	2/9/2022	2/9/2022	NJC	1
Chrysene	< 3.14	ug/l	3.14	9.98	200	M8270C	2/9/2022	2/9/2022	NJC	1
Dibenzo(a,h)anthracene	< 3.46	ug/l	3.46	10.98	200	M8270C	2/9/2022	2/9/2022	NJC	1
Fluoranthene	9.30	ug/l	1.76	5.62	200	M8270C	2/9/2022	2/9/2022	NJC	1
Fluorene	41.0	ug/l	1.58	5.02	200	M8270C	2/9/2022	2/9/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 2.42	ug/l	2.42	7.7	200	M8270C	2/9/2022	2/9/2022	NJC	1
1-Methyl naphthalene	29.2	ug/l	3.82	12.18	200	M8270C	2/9/2022	2/9/2022	NJC	1
2-Methyl naphthalene	12.4	ug/l	3.72	11.8	200	M8270C	2/9/2022	2/9/2022	NJC	1
Naphthalene	172	ug/l	6	20	200	M8270C	2/9/2022	2/9/2022	NJC	1
Phenanthrene	58.0	ug/l	2.86	9.12	200	M8270C	2/9/2022	2/9/2022	NJC	1
Pyrene	5.40 "J"	ug/l	2.42	7.72	200	M8270C	2/9/2022	2/9/2022	NJC	1

Project Name FMR MOSS AMERICAN
Project # 18687

Invoice # E40484

Lab Code 5040484F
Sample ID PZ-03E
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	2.35	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	53	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	9.3	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	60	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	33	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	590	ug/l	4.7	15	500	M8270C	2/9/2022	2/9/2022	NJC	1
Acenaphthylene	< 7.80	ug/l	7.8	24.75	500	M8270C	2/9/2022	2/9/2022	NJC	1
Anthracene	69.0	ug/l	7.5	23.9	500	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)anthracene	24.9 "J"	ug/l	10	33.5	500	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)pyrene	< 8.35	ug/l	8.35	26.55	500	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(b)fluoranthene	8.90 "J"	ug/l	8	25.45	500	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(g,h,i)perylene	< 7.10	ug/l	7.1	22.55	500	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(k)fluoranthene	< 7.30	ug/l	7.3	23.15	500	M8270C	2/9/2022	2/9/2022	NJC	1
Chrysene	18.9 "J"	ug/l	7.85	24.95	500	M8270C	2/9/2022	2/9/2022	NJC	1
Dibenzo(a,h)anthracene	< 8.65	ug/l	8.65	27.45	500	M8270C	2/9/2022	2/9/2022	NJC	1
Fluoranthene	147	ug/l	4.4	14.05	500	M8270C	2/9/2022	2/9/2022	NJC	1
Fluorene	316	ug/l	3.95	12.55	500	M8270C	2/9/2022	2/9/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 6.05	ug/l	6.05	19.25	500	M8270C	2/9/2022	2/9/2022	NJC	1
1-Methyl naphthalene	350	ug/l	9.55	30.45	500	M8270C	2/9/2022	2/9/2022	NJC	1
2-Methyl naphthalene	490	ug/l	9.3	29.5	500	M8270C	2/9/2022	2/9/2022	NJC	1
Naphthalene	3500	ug/l	15	50	500	M8270C	2/9/2022	2/9/2022	NJC	1
Phenanthrene	490	ug/l	7.15	22.8	500	M8270C	2/9/2022	2/9/2022	NJC	1
Pyrene	99.0	ug/l	6.05	19.3	500	M8270C	2/9/2022	2/9/2022	NJC	1

Project Name FMR MOSS AMERICAN
Project # 18687

Invoice # E40484

Lab Code 5040484G
Sample ID PZ-03F
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	< 0.77	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	< 0.44	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	0.38	ug/l	0.0094	0.03	1	M8270C	2/9/2022	2/9/2022	NJC	1
Acenaphthylene	0.039 "J"	ug/l	0.0156	0.0495	1	M8270C	2/9/2022	2/9/2022	NJC	1
Anthracene	0.058	ug/l	0.015	0.0478	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)anthracene	0.0289 "J"	ug/l	0.02	0.067	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	2/9/2022	2/9/2022	NJC	1
Chrysene	0.0229 "J"	ug/l	0.0157	0.0499	1	M8270C	2/9/2022	2/9/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	2/9/2022	2/9/2022	NJC	1
Fluoranthene	0.26	ug/l	0.0088	0.0281	1	M8270C	2/9/2022	2/9/2022	NJC	1
Fluorene	0.106	ug/l	0.0079	0.0251	1	M8270C	2/9/2022	2/9/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	2/9/2022	2/9/2022	NJC	1
1-Methyl naphthalene	0.084	ug/l	0.0191	0.0609	1	M8270C	2/9/2022	2/9/2022	NJC	1
2-Methyl naphthalene	0.058 "J"	ug/l	0.0186	0.059	1	M8270C	2/9/2022	2/9/2022	NJC	1
Naphthalene	0.193	ug/l	0.03	0.1	1	M8270C	2/9/2022	2/9/2022	NJC	1
Phenanthrene	0.033 "J"	ug/l	0.0143	0.0456	1	M8270C	2/9/2022	2/9/2022	NJC	1
Pyrene	0.191	ug/l	0.0121	0.0386	1	M8270C	2/9/2022	2/9/2022	NJC	1

Project Name FMR MOSS AMERICAN
 Project # 18687

Invoice # E40484

Lab Code 5040484H
 Sample ID PZ-03G
 Sample Matrix Water
 Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	< 0.77	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	< 0.44	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	0.25	ug/l	0.0094	0.03	1	M8270C	2/9/2022	2/9/2022	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	2/9/2022	2/9/2022	NJC	1
Anthracene	0.041 "J"	ug/l	0.015	0.0478	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	2/9/2022	2/9/2022	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	2/9/2022	2/9/2022	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	2/9/2022	2/9/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	2/9/2022	2/9/2022	NJC	1
Fluoranthene	0.116	ug/l	0.0088	0.0281	1	M8270C	2/9/2022	2/9/2022	NJC	1
Fluorene	0.065	ug/l	0.0079	0.0251	1	M8270C	2/9/2022	2/9/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	2/9/2022	2/9/2022	NJC	1
1-Methyl naphthalene	0.069	ug/l	0.0191	0.0609	1	M8270C	2/9/2022	2/9/2022	NJC	1
2-Methyl naphthalene	0.054 "J"	ug/l	0.0186	0.059	1	M8270C	2/9/2022	2/9/2022	NJC	1
Naphthalene	0.212	ug/l	0.03	0.1	1	M8270C	2/9/2022	2/9/2022	NJC	1
Phenanthrene	0.036 "J"	ug/l	0.0143	0.0456	1	M8270C	2/9/2022	2/9/2022	NJC	1
Pyrene	0.096	ug/l	0.0121	0.0386	1	M8270C	2/9/2022	2/9/2022	NJC	1

Project Name FMR MOSS AMERICAN
Project # 18687

Invoice # E40484

Lab Code 5040484I
Sample ID PZ-03H
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	0.44 "J"	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	4.4	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	2.75 "J"	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	3.2	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1
PAH SIM										
Acenaphthene	314	ug/l	1.88	6	200	M8270C	2/9/2022	2/10/2022	NJC	1
Acenaphthylene	< 3.12	ug/l	3.12	9.9	200	M8270C	2/9/2022	2/10/2022	NJC	1
Anthracene	16.6	ug/l	3	9.56	200	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)anthracene	< 4.00	ug/l	4	13.4	200	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(a)pyrene	< 3.34	ug/l	3.34	10.62	200	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(b)fluoranthene	< 3.20	ug/l	3.2	10.18	200	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(g,h,i)perylene	3.03 "J"	ug/l	2.84	9.02	200	M8270C	2/9/2022	2/10/2022	NJC	1
Benzo(k)fluoranthene	< 2.92	ug/l	2.92	9.26	200	M8270C	2/9/2022	2/10/2022	NJC	1
Chrysene	< 3.14	ug/l	3.14	9.98	200	M8270C	2/9/2022	2/10/2022	NJC	1
Dibenzo(a,h)anthracene	< 3.46	ug/l	3.46	10.98	200	M8270C	2/9/2022	2/10/2022	NJC	1
Fluoranthene	11.3	ug/l	1.76	5.62	200	M8270C	2/9/2022	2/10/2022	NJC	1
Fluorene	156	ug/l	1.58	5.02	200	M8270C	2/9/2022	2/10/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 2.42	ug/l	2.42	7.7	200	M8270C	2/9/2022	2/10/2022	NJC	1
1-Methyl naphthalene	248	ug/l	3.82	12.18	200	M8270C	2/9/2022	2/10/2022	NJC	1
2-Methyl naphthalene	151	ug/l	3.72	11.8	200	M8270C	2/9/2022	2/10/2022	NJC	1
Naphthalene	990	ug/l	6	20	200	M8270C	2/9/2022	2/10/2022	NJC	1
Phenanthrene	138	ug/l	2.86	9.12	200	M8270C	2/9/2022	2/10/2022	NJC	1
Pyrene	6.20 "J"	ug/l	2.42	7.72	200	M8270C	2/9/2022	2/10/2022	NJC	1

Lab Code 5040484J
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/5/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/5/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/5/2022	CJR	1
m&p-Xylene	< 0.77	ug/l	0.77	3.14	1	8260B		2/5/2022	CJR	1
o-Xylene	< 0.44	ug/l	0.44	1.8	1	8260B		2/5/2022	CJR	1

Project Name FMR MOSS AMERICAN
Project # 18687

Invoice # E40484

Lab Code 5040484K
Sample ID EQUIP BLANK
Sample Matrix Water
Sample Date 2/2/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.38	ug/l	0.38	1.55	1	8260B		2/4/2022	CJR	1
Ethylbenzene	< 0.37	ug/l	0.37	1.51	1	8260B		2/4/2022	CJR	1
Toluene	< 0.42	ug/l	0.42	1.71	1	8260B		2/4/2022	CJR	1
m&p-Xylene	< 0.77	ug/l	0.77	3.14	1	8260B		2/4/2022	CJR	1
o-Xylene	< 0.44	ug/l	0.44	1.8	1	8260B		2/4/2022	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

1 Laboratory QC within limits.

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

Authorized Signature



Michael J. Reed

Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Sample Handling Request

Rush Analysis Date Required: _____
(Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. #
QUOTE #: **WDNR**
Project #: **18687**
Sampler: (signature) *Tim W...* *in CA*

Project (Name / Location): **Former Moss American / 8716 N Granville Rd, Milwaukee, WI**

Reports To: **Steven Kikkert**
Company: **The Sigma Group**
Address: **1300 W Canal St, Milwaukee, WI**
City State Zip: **Milwaukee, WI, 53233**
Phone: **414-643-4200**
Email: **skikkert@thesigmagroup.com**

Invoice To:
Company:
Address:
City State Zip:
Phone:
Email:

SAME

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection		Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA-8260) BTEX	VOC AIR (TO - 15)	8-PCRA METALS	PID/FID		
		Date	Time																						
S010184 A	P2-03	2/2/22	11:05	N	4	GW	HCl/None																		
B	P2-03 A		11:55																						
C	P2-03 B		11:50																						
D	P2-03 C		12:30																						
E	P2-03 D		12:35																						
F	P2-03 E		12:40																						
G	P2-03 F		12:45																						
H	P2-03 G		12:00																						
I	P2-03 H		11:45																						
J	Duplicate						HCl																		
K	Equipment Blank		1:15				HCl																		
	Matrix Spike						None																		

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

Sample Integrity - To be completed by receiving lab.
Method of Shipment: 5
Temp. of Temp. Blank: _____ °C On Ice:
Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) *Tim W...* Time: 4:15 Date: 2/2/22
Received in Laboratory By: *[Signature]*

Received By: (sign) _____ Time: 8:00 Date: 2/3/22

Environmental Lab, Inc.

www.synergy-lab.net
 1990 Prospect Ct. • Appleton, WI 54914
 920-830-2455 • mrsynergy@wi.twcabc.com

Sample Handling Request

Rush Analysis Date Required: _____
 (Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. # _____
 QUOTE #: **WDNR**
 Project #: **18687**
 Sampler: (signature) *Mimi Wagner Dm ch*

Project (Name / Location): **Former Mass American / 8716 N Granville Rd, Milwaukee, WI**

Reports To: **Steven Kikkert**
 Company: **The Sigma Group**
 Address: **1300 W Canal St**
 City State Zip: **Milwaukee, WI, 53233**
 Phone: **414-643-4200**
 Email: **skikkert@thesigmagroup.com**

Invoice To: _____
 Company: _____
 Address: _____
 City State Zip: _____
 Phone: _____
 Email: _____

SAME

Analysis Requested **Other Analysis**

Lab I.D.	Sample I.D.	Collection		Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-PCRA METALS	PID/FID	
		Date	Time																					
	Matrix Spike Dup	2/1/22	→	N	1	GW	None																	

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

Sample Integrity - To be completed by receiving lab.
 Method of Shipment: _____
 Temp. of Temp. Blank: _____ °C On Ice: _____
 Cooler seal intact upon receipt: Yes ___ No ___

Relinquished By: (sign) *Mimi Wagner* Time **4:15** Date **2/1/22**
 Received By: (sign) _____ Time _____ Date _____
 Received in Laboratory By: _____ Time: _____ Date: _____