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December 23, 2020 Project #18687

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

RE: Quarterly Report of Groundwater Sampling (October 2020 Event)
Former Moss-American Facility, 8716 N. Granville Rd., Milwaukee, WI
FID # 241378280

Dear Mr. Wentland and Mr. Delcore:

The Sigma Group, Inc. (Sigma) is pleased to present this Quarterly Report of Groundwater Sampling for the above-referenced property (hereinafter "the site"). This is the fifth Quarterly Report submitted in fulfillment of the Scope of Work prepared by the Wisconsin Department of Natural Resources (WDNR) in August 2019 and the Work Plan prepared by Sigma in September 2019.

In accordance with the Scope of Work and Work Plan, this Quarterly Report includes the following:

- Investigative waste manifests from this quarterly sampling round;
- Groundwater monitoring well condition report of all wells;
- Monitoring well abandonment forms for well abandonments completed in July and October 2020;
- Summary and tabulation of groundwater analytical results;
- Laboratory reports of groundwater analytical results; and,
- Recommendations for modification of future groundwater sampling, if any.

Investigative waste manifests resulting from groundwater sampling activities (purge water) completed in October 2020 are included in **Attachment 1**. The investigative waste was picked up by Veolia ES Technical Solutions, LLC (Veolia) on October 16, 2020 for treatment and disposal as hazardous waste.

Well abandonments of eleven groundwater monitoring wells were completed in July 2020 and October 2020 and are described in the following sections. Well abandonment forms (WDNR form 3300-005) were completed for each monitoring well abandoned and are included in **Attachment 2**.

GROUNDWATER MONITORING WELL CONDITION REPORT

A total of fifty-three (53) groundwater monitoring wells were present at the site at the beginning of the scope of work (August 2019). The groundwater monitoring wells have been described by their original purpose, and named accordingly, in previous site documents. Beginning in 2013, each of the site groundwater monitoring wells have been used to monitor shallow groundwater quality and effectiveness of the multiple rounds of

remedial activities conducted on site. The status and condition of the groundwater monitoring wells are summarized in **Table 1**.

- Thirty-nine (39) monitoring wells are currently present on site, are in good condition and were sampled in October 2020. Of these, 38 monitoring wells are located on-site , and one monitoring well (MW-H) is located off-site along the Little Menomonee River.
    - Of the monitoring wells able to be sampled, seven monitoring wells (MW-7S, MW-9S, MW-38S, TG3-1, TG5-2, TG6-3, and PZ-02) contained either a slight obstruction or bent casing. However, despite the obstruction these monitoring wells were able to be sampled, either with no modifications to sampling procedure, or by using a peristaltic pump to purge and a 1-inch diameter bailer to sample.
- One (1) monitoring well (TG2-1) damaged in July 2020 from site grading activities, was located and properly abandoned on July 20, 2020. The well abandonment form (WDNR form 3300-005) is included in **Attachment 2**. Replacement of the damaged well TG2-1 is deemed not necessary considering no groundwater impacts were identified at this location during six rounds of sampling completed since 2010.
- Three (3) monitoring wells (MW-27S, MW-34S-N, and PZ-07) were abandoned on October 13, 2020 due to obstruction within the well casing. The well abandonment forms (WDNR form 3300-005) are included in **Attachment 2**.
- Seven (7) river reach monitoring wells (MW-A, MW-B, MW-C, MW-E, MW-F, MW-G, and MW-J) were abandoned on October 13, 2020 due to absence of groundwater impacts identified at these locations (consistently low levels or non-detect contaminants) or poor well condition. The well abandonment forms (WDNR form 3300-005) are included in **Attachment 2**.
- Two (2) river reach monitoring wells (MW-D and MW-I) have not been located during the 2019 and 2020 sampling rounds. Sigma will conduct a close search of the area where these monitoring wells were installed during winter when foliage is at a minimum to attempt to locate. If the integrity of these wells is found intact the wells will be sampled per the project sampling protocol.

One (1) river reach monitoring well (MW-K) has been submerged during the 2019 and 2020 sampling rounds. Considering the conditions of this monitoring well - not suitable for groundwater sampling - Sigma will schedule abandonment of this monitoring well in the near future in accordance with NR 141.

GROUNDWATER SAMPLING ACTIVITIES

A total of 39 groundwater monitoring wells were accessible and found to be in acceptable condition for sampling. During October 5 through October 9, 2020 Sigma completed groundwater sampling from the 39 groundwater monitoring wells.

Groundwater monitoring wells were measured for the field parameters including water level, dissolved oxygen, oxidation-reduction potential, pH, temperature, turbidity, specific conductance, and ferrous iron using a Solinst Water Level Meter, a YSI Professional Plus

Multiparameter meter and a Hach 2100Q portable turbidimeter. The groundwater monitoring wells were then purged using disposable bailers or a peristaltic pump. Following the recommendation made in the October 2019 Quarterly 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. Each groundwater monitoring well was sampled and submitted to the project laboratory for analysis of benzene, toluene, ethylbenzene, xylenes (BTEX) (EPA Method 8260), and the polycyclic aromatic hydrocarbons (PAHs) (EPA Method 8270). Quality control and quality assurance samples included 4 duplicate samples, 1 trip blank, and 1 equipment blank. Groundwater generated from purging activities was contained in 55-gallon drums and picked up by Veolia on October 16, 2020 for disposal as hazardous waste. Manifests are included in **Attachment 1**.

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Groundwater Elevation Measurements

Groundwater elevation measurements were generally consistent with previous results. Groundwater elevations were measured within approximately one foot of the summer 2020 elevations throughout the site with the exception of the monitoring wells near Gates 5 and 6 (TG5-1, TG5-2, TG5-3, TG6-1, TG6-2, and TG6-3). The groundwater elevations in this area were approximately one foot, or slightly higher than one foot, greater than the summer 2020 measurements. The direction of groundwater flow at the site is consistent with previous measurements, toward the Little Menomonee River, or to the northeast. Groundwater elevation measurements are summarized in **Table 2**.

Groundwater *In Situ* Measurements

Groundwater *in situ* measurements are summarized in **Table 3.** In general, results are consistent with the previous round of *in situ* measurements or expected seasonal fluctuations. Turbidity measurements are generally consistent throughout the site after following the October 2019 Quarterly Report recommendation to sample 24 hours after purging.

Review of the biodegradation parameters (e. g., ferrous iron, dissolved oxygen, and REDOX) indicate biodegradation is ongoing at the site., Review of dissolved oxygen readings (less than 1 ppm) measured during the October 2020 sampling event indicates that the subsurface condition is mostly anaerobic. The REDOX potential measured during the October sampling event are mostly less than zero (-50.2 to -186.7 mV) which also indicates subsurface conditions are predominantly anaerobic. Ferrous iron is a by-product of anaerobic biodegradation of hydrocarbon related compounds. The presence of ferrous iron in groundwater samples collected from monitoring wells located within the impacted areas supports the conclusion that anaerobic biodegradation of contaminants are ongoing at the site.

Groundwater Analytical Results

Groundwater samples from 39 groundwater monitoring wells were submitted to the project laboratory for analysis of BTEX and PAHs. Laboratory reports are presented in **Attachment 3**, and results are summarized on **Table 4**. Results are compared to the Preventive Action Limits (PALs) and Enforcement Standards (ESs) published in the

USEPA's Record of Decision (1990) for BTEX (hereinafter "EPA ROD PAL" and "EPA ROD ES"), and current NR 140 PALs and ESs for PAHs. Current NR 140 PALs and ESs for BTEX are also shown on **Table 4** for comparison purposes.

Due to differences in groundwater concentrations of select PAHs reported within monitoring wells PZ-02 and PZ-03 relative to concentrations observed during previous rounds, Sigma resampled monitoring wells PZ-02 and PZ-03 on October 29, 2020 to verify results collected on October 9, 2020. No differences or apparent errors in sample collection procedures on October 8 (purging) or October 9 (sampling) were noted as compared to the standard field procedures. Further, upon consultation with the laboratory, no differences or apparent errors were noted as compared to the standard laboratory procedures. During resampling the monitoring wells PZ-02 and PZ-03 were purged on October 28 and sampled on October 29, 2020 following standard procedures. In situ parameters were not measured. Split samples were collected during re-sampling and the samples were submitted to two laboratories (Synergy Environmental Labs and Pace Analytical) as an additional quality control measure. The results are discussed below and included in **Table 4**.

Summary of BTEX Results

Of the 39 groundwater monitoring wells sampled in this sampling round, 32 groundwater monitoring wells reported results less than the limit of detection for BTEX. Only one sampling location, the monitoring well PZ-03, reported detectable concentrations of benzene, toluene, ethylbenzene, and total xylenes. Reported concentrations of ethylbenzene, toluene, and total xylenes for monitoring well PZ-03 were less than both PALs and ESs. The reported concentration of benzene (1.27 µg/L) for monitoring well PZ-03 is greater than both PALs and the EPA ROD ES, but less than the NR 140 ES. The results for monitoring well PZ-03 are consistent with previous sampling rounds. The monitoring well MW-38S reported a concentration of benzene between the limit of quantitation and the limit of detection and greater than the EPA ROD PAL and less than the NR 140 PAL and both ESs. The monitoring wells MW-31S, MW-33S, TG5-1, PZ-09R, MW-H reported one or more BTEX compounds greater than the limit of detection but less than both PALs and ESs.

Summary of PAH Results

Of the 39 groundwater monitoring wells sampled in this sampling round, 24 groundwater monitoring wells reported results less than NR 140 PALs for PAHs. At the remaining 15 groundwater monitoring wells sampled, four analytes (benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and naphthalene) were reported at concentrations exceeding NR 140 PALs and/or ESs. . Results of each of these four analytes are described below.

Benzo(a)pyrene

Five groundwater monitoring wells reported concentrations of benzo(a)pyrene greater than the NR 140 PAL and/or ES, at sporadic locations on the main property.

- Groundwater monitoring wells TG3-2, TG3-3, and TG5-2 reported concentrations of benzo(a)pyrene greater than the NR 140 PAL, but between the limit of quantitation and the limit of detection.

- Groundwater monitoring wells PZ-02 and PZ-03 reported concentrations of benzo(a)pyrene greater than the NR 140 ES, but between the limit of quantitation and the limit of detection. The resampled monitoring wells PZ-02 and PZ-03 reported concentrations less than the limit of detection from both laboratories. The resampled concentrations are consistent with concentrations reported in the previous four rounds.

Benzo(b)fluoranthene

Thirteen groundwater monitoring wells reported concentrations of benzo(b)fluoranthene greater than the NR 140 PAL and/or ES, at sporadic locations on the main property.

- Groundwater monitoring wells MW-34SR, MW-35S, TG2-2, TG3-2, TG3-3, TG4-2, PZ-09R, and PZ-10 reported concentrations of benzo(b)fluoranthene greater than the NR 140 PAL, but between the limit of quantitation and the limit of detection.
- Groundwater monitoring well MW-7S, MW-7S-WR, and TG5-2 reported concentrations of benzo(b)fluoranthene greater than the NR 140 PAL but less than the NR 140 ES.
- Groundwater monitoring well PZ-02 reported concentrations of benzo(b)fluoranthene greater than the NR 140 ES, but between the limit of quantitation and the limit of detection. The resampled monitoring well PZ-02 reported a concentration less than the limit of detection from both laboratories. The resampled concentration is consistent with concentrations reported in the previous four rounds.
- Groundwater monitoring well PZ-03 reported concentrations of benzo(b)fluoranthene greater than the NR 140 ES. The resampled monitoring well PZ-03 reported a concentration less than the limit of detection from both laboratories. The resampled concentration is consistent with the concentration reported in the previous four rounds.

Chrysene

Twelve groundwater monitoring wells reported concentrations of chrysene greater than the NR 140 PAL and/or ES, at sporadic locations on the main property.

- Groundwater monitoring wells MW-7S, MW-34SR, MW-35S, TG1-2, TG3-3, TG4-2, TG5-2, and PZ-10 reported concentrations of chrysene greater than the NR 140 PAL, but between the limit of quantitation and the limit of detection.
- Groundwater monitoring well MW-7S-WR reported a concentration of chrysene greater than the NR 140 PAL.
- Groundwater monitoring wells PZ-02, PZ-03, and PZ-09R reported concentrations of chrysene greater than the NR 140 ES, but between the limit of quantitation and the limit of detection. The resampled monitoring wells PZ-02 and PZ-03 reported concentrations less than the limit of detection from both laboratories. The resampled concentrations are consistent with concentrations reported in the previous four rounds.

Naphthalene

Three groundwater monitoring wells reported concentrations of naphthalene greater than the NR 140 PAL and/or ES.

- Groundwater monitoring well MW-33S reported a concentration of naphthalene (199 µg/L) greater than its NR 140 ES. Review of historical data indicates that naphthalene has been detected at a similar concentration in 2010 and in April 2020, with concentrations less than its NR 140 PAL from 2013 through 2019, and a concentration greater than its NR 140 PAL in July 2020.
- Groundwater monitoring well PZ-02 reported a concentration of naphthalene greater than its NR 140 PAL in the samples collected on October 9 and 29 (from both laboratories). These concentrations are consistent with concentrations reported in the previous four rounds.
- Groundwater monitoring well PZ-03 reported a concentration of naphthalene greater than its NR 140 PAL; the resampled concentrations from both laboratories were reported greater than its NR 140 ES. The resampled concentrations are consistent with concentrations reported in the previous four rounds. Concentrations reported in the previous four sampling events and the October resamples have been greater than the NR 140 ES and at relatively high concentrations. The recent sampling events from monitoring well PZ-03 have reported concentrations of naphthalene as follows:
    - October 29, 2020 (resample from Pace): 1310 µg/L
    - October 29, 2020 (resample from Synergy): 1680 µg/L
    - October 9, 2020: 4.9 µg/L
    - July 2020: 3010 µg/L
    - April 2020: 3600 µg/L
    - January 2020: 4000 µg/L
    - October 2019: 1620 µg/L

  Review of the historical data indicate that monitoring well PZ-03 was only sampled once prior to 2019 (in 2013), and that naphthalene was detected during the 2013 sampling round at a concentration of 47 µg/L, which is greater than the NR 140 PAL but less than the NR 140 ES. However, during the 2019 – 2020 sampling period groundwater naphthalene concentrations at PZ-03 have increased by two orders of magnitude. Additional subsurface evaluation and mitigation measures may be appropriate in the vicinity of this well to address the residual mass responsible for the increase.

RECOMMENDATIONS

Two monitoring wells, MW-D and MW-I, have not been located during the 2019 and 2020 sampling activities. Sigma plans to conduct a thorough search of the areas where these wells were located using survey equipment and a metal detector to locate these two monitoring wells. Work will be conducted in winter 2020-2021 when foliage is at a minimum.

Monitoring well MW-H was not abandoned due to low level NR 140 PAL exceedances observed during previous sampling rounds. The concentrations within groundwater sample collected from monitoring well MW-H during October 2020 sampling round were less than respective NR 140 PALs. Nonetheless, additional rounds of sampling will be conducted on this monitoring well and recommendations may be made in the future regarding abandonment.

Sigma will conduct the next round of quarterly groundwater monitoring using either low-flow sampling procedures or traditional bailer purging and sampling after 24 hours to minimize the possibility of drawing fine sediments from the formation into the samples, as recommended in the October 2019 Quarterly Report.

Sigma anticipates performing the next round of quarterly groundwater monitoring approximately 3 months following the completion of this round of quarterly groundwater monitoring, or about January 4, 2021. Please feel free to contact the undersigned should you have any questions.

Sincerely,

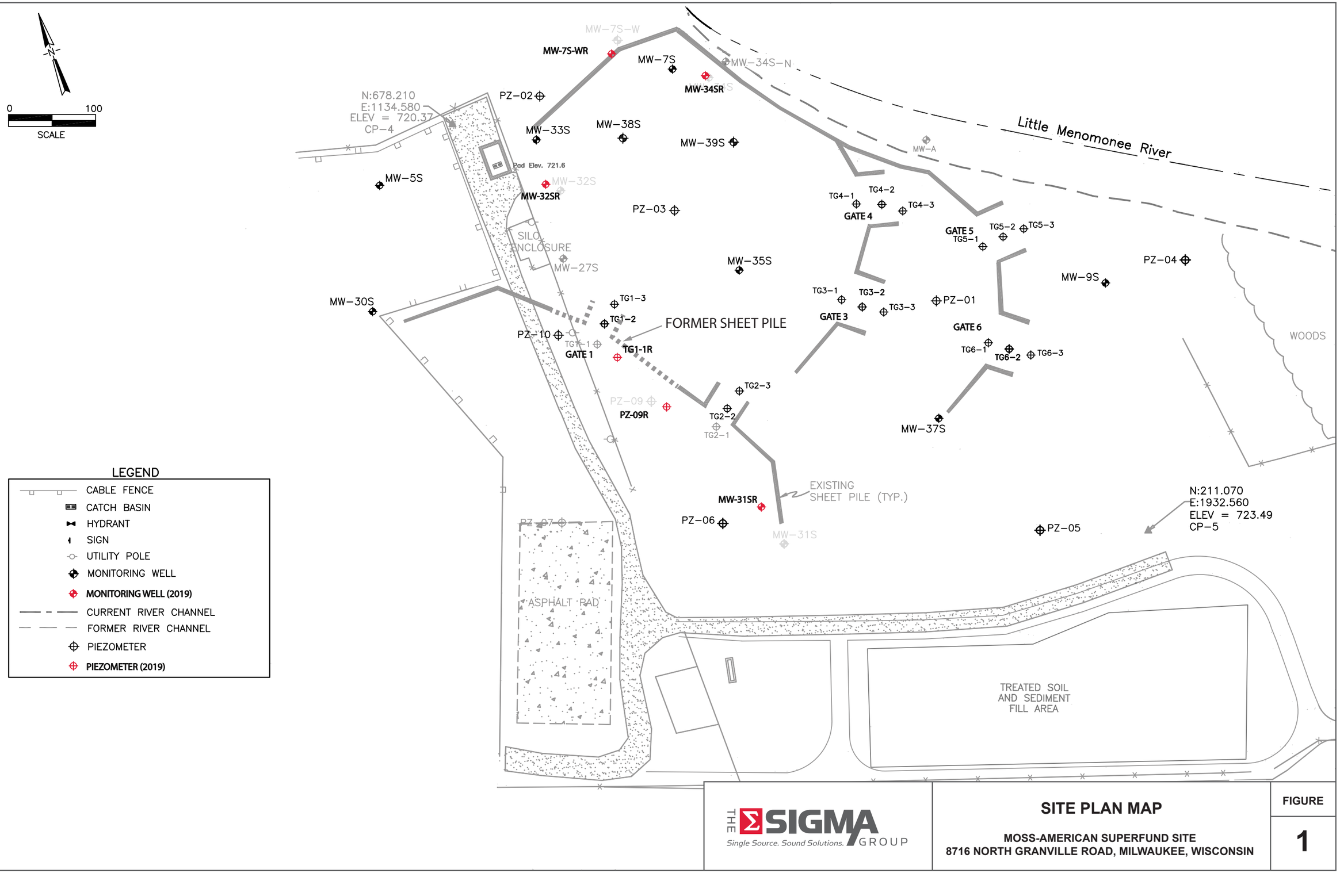
THE SIGMA GROUP, INC.

Andrea Lorenz, P.E.
Project Engineer

Mafizul Islam, P.E.
Senior Project Manager

Attachments:

Figure 1	Site Plan Map
Table 1	Groundwater Monitoring Wells Condition Report- Fall 2020
Table 2	Groundwater Elevation Results
Table 3	Groundwater *In Situ* Results
Table 4	Groundwater Analytical Results
Attachment 1	Investigative Waste Manifests
Attachment 2	Well Abandonment Forms
Attachment 3	Laboratory Reports



LEGEND

- CABLE FENCE
- CATCH BASIN
- HYDRANT
- SIGN
- UTILITY POLE
- MONITORING WELL
- **MONITORING WELL (2019)**
- CURRENT RIVER CHANNEL
- FORMER RIVER CHANNEL
- PIEZOMETER
- **PIEZOMETER (2019)**

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SITE PLAN MAP

MOSS-AMERICAN SUPERFUND SITE
8716 NORTH GRANVILLE ROAD, MILWAUKEE, WISCONSIN

FIGURE

1

Project: **18687** | Directory: **CAD/Environmental** | Filename: **18687_Master_Map_horizontal 11x17** | Created By: **ESP/JRS** | Date: **08/26/2020**

Table 1

Groundwater Monitoring Wells Condition Report- Fall 2020

Former Moss-American Facility- 8716 N Granville Rd, Milwaukee, WI

Sigma Project # 18687

Well ID	Sampled in Fall 2020?	Well Casing Diameter (inches)	Well Casing Material	Comment	Recommendation / Status
MW-5S	Y	2	Steel	Good condition; able to sample	Continue sampling
MW-7S	Y	2	Steel	Able to sample; well casing is bent. Well was sampled using a 1" bailer.YSI appear submerged	Continue sampling
MW-7S-WR	Y	2	PVC	Good condition; able to sample	Continue sampling
MW-9S	Y	2	Steel	Able to sample: multiparameter probe can not penetrate past 10.0' but the bailer can penetrate the depth of the well	Continue sampling
MW-27S	N	2	PVC	Well is obstructed at 4.05 ft below top of casing.	**Abandoned on 10/13/2020**
MW-30S	Y	2	Steel	Good condition; able to sample	Continue sampling
MW-31SR	Y	2	PVC	Good condition; able to sample	Continue sampling
MW-32SR	Y	2	PVC	Good condition; able to sample	Continue sampling
MW-33S	Y	2	Steel	Good condition; able to sample	Continue sampling
MW-34SR	Y	2	PVC	Good condition; able to sample	Continue sampling
MW-34S-N	N	2	PVC	Obstructed at 5.95 ft below top of casing	**Abandoned on 10/13/2020**
MW-35S	Y	2	Steel	Good condition; able to sample	Continue sampling
MW-37S	Y	2	Steel	Good condition; able to sample	Continue sampling
MW-38S	Y	2	Steel	Able to sample; well casing is bent. Well was sampled using a 1" bailer. Cap too tall	Continue sampling
MW-39S	Y	2	Steel	Good condition; able to sample	Continue sampling
TG1-1R	Y	2	PVC	Good condition; able to sample	Continue sampling
TG1-2	Y	2	Steel	Good condition; able to sample	Continue sampling
TG1-3	Y	2	Steel	Good condition; able to sample	Continue sampling
TG2-1	N	2	Steel	Hit and buried by bulldozer after sampling; found and abandoned	**Abandoned on 7/20/20**
TG2-2	Y	2	Steel	Good condition; able to sample	Continue sampling
TG2-3	Y	2	Steel	Good condition; able to sample	Continue sampling
TG3-1	Y	2	Steel	Good condition; able to sample; very slight kink	Continue sampling
TG3-2	Y	2	Steel	Good condition; able to sample	Continue sampling
TG3-3	Y	2	Steel	Good condition; able to sample	Continue sampling
TG4-1	Y	2	Steel	Good condition; able to sample	Continue sampling
TG4-2	Y	2	Steel	Good condition; able to sample	Continue sampling
TG4-3	Y	2	Steel	Good condition; able to sample	Continue sampling
TG5-1	Y	2	Steel	Good condition; able to sample	Continue sampling
TG5-2	Y	2	Steel	Hit by bulldozer; able to purge with peristaltic pump and sample with 1" bailer	Continue sampling
TG5-3	Y	2	Steel	Good condition; able to sample	Continue sampling
TG6-1	Y	2	Steel	Good condition; able to sample	Continue sampling
TG6-2	Y	2	Steel	Good condition; able to sample	Continue sampling
TG6-3	Y	2	Steel	Able to sample: multiparameter probe can not penetrate past 10.5' but the bailer can penetrate the depth of the well	Continue sampling
PZ-01	Y	1.5	PVC	Good condition; able to sample	Continue sampling
PZ-02	Y	1.5	PVC	Good condition; able to sample; purged w pump, sampled w 1" bailer	Continue sampling
PZ-03	Y	1.5	PVC	Good condition; able to sample	Continue sampling
PZ-04	Y	1.5	PVC	Good condition; able to sample	Continue sampling
PZ-05	Y	1.5	PVC	Good condition; able to sample	Continue sampling
PZ-06	Y	1.5	PVC	Good condition; able to sample	Continue sampling
PZ-07	N	1.5	PVC	Obstructed at 4.1 ft below top of casing	**Abandoned on 10/13/2020**
PZ-09R	Y	2	PVC	Good condition; able to sample	Continue sampling
PZ-10	Y	1.5	PVC	Good condition; able to sample; purged with pump	Continue sampling
MW-A	N	2	PVC	Abandoned	**Abandoned on 10/13/2020**
MW-B	N	2	PVC	Abandoned	**Abandoned on 10/13/2020**
MW-C	N	2	PVC	Abandoned	**Abandoned on 10/13/2020**
MW-D	N	2	PVC	Well could not be located due to overgrown vegetation or damaged and buried.	**Attempt to locate in fall/winter 2020; sample if possible**
MW-E	N	2	PVC	Abandoned	**Abandoned on 10/13/2020**
MW-F	N	2	PVC	Abandoned	**Abandoned on 10/13/2020**
MW-G	N	2	PVC	Abandoned	**Abandoned on 10/13/2020**
MW-H	Y	2	PVC	Good condition; able to sample	Continue sampling
MW-I	N	2	PVC	Well could not be located; well location appears to be submerged	**Attempt to locate in fall/winter 2020; sample if possible**
MW-J	N	2	PVC	Abandoned	**Abandoned on 10/13/2020**
MW-K	N	2	PVC	Well submerged under water/ice; well not sampled due to high river water levels	**Planned for abandonment**

Table 2
Groundwater Elevation Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	Ground Elevation	Top of Casing	Depth to Groundwater	Well Depth	Water Column	Water Column Difference	Groundwater Elevation	Depth to Groundwater	Physical Observations
		(feet MSL)	(feet MSL)	(feet TOC)	(feet TOC)	(feet)	(feet)	(feet MSL)	(feet bgs)	
MW-5S	4/4/13	723.41	724.63	5.45	19.75	14.30		719.18	4.23	
	10/8/19	722.72	724.44	5.98	19.52	13.54	-0.76	718.46	4.26	good recovery
	1/3/20	722.72	724.44	5.82	19.52	13.70	0.16	718.62	4.10	
	3/31/20	722.72	724.44	5.69	19.50	13.81	0.11	718.75	3.97	good recovery
	7/6/20	722.72	724.44	6.76	19.68	12.92	-0.89	717.68	5.04	going dry
	10/7/20	722.72	724.44	6.93	19.71	12.78	-0.14	717.51	5.21	moderate
MW-7S	4/4/13	719.47	721.59	4.14	15.40	11.26		717.45	2.02	
	10/7/19	718.87	721.77	4.20	15.05	10.85	-0.41	717.57	1.30	good recovery, Dup #4
	1/3/20	718.87	721.77	3.71	15.05	11.34	0.49	718.06	0.81	
	3/31/20	718.87	721.77	4.02	15.05	11.03	-0.31	717.75	1.12	good recovery
	7/6/20	718.87	721.77	5.68	14.46	8.78	-2.25	716.09	2.78	
	10/8/20	718.87	721.77	5.43	14.47	9.04	0.26	716.34	2.53	good recovery
MW-7S-W	4/5/13	716.41	719.84	4.22	16.85	12.63		715.62	0.79	
MW-7S-WR	10/3/19	717.66	720.05	2.33	17.37	15.04		717.72	-0.05	going dry
	1/3/20	717.66	720.05	3.99	17.37	13.38	-1.66	716.06	1.61	
	3/31/20	717.66	720.05	3.08	17.35	14.27	0.89	716.97	0.70	good recovery
	7/6/20	717.66	720.05	5.20	17.41	12.21	-2.06	714.85	2.82	going dry
	10/5/20	717.66	720.05	5.11	17.35	12.24	0.03	714.94	2.73	good recovery
MW-9S	4/4/13	719.15	721.66	3.90	15.30	11.40		717.76	1.39	
	9/27/19	718.72	721.47	4.59	15.05	10.46	-0.94	716.88	1.84	good recovery
	12/31/19	718.72	721.47	4.05	15.05	11.00	0.54	717.42	1.30	
	4/3/20	718.72	721.47	4.50	15.05	10.55	-0.45	716.97	1.75	moderate recovery
	7/13/20	718.72	721.47	4.56	15.09	10.53	-0.02	716.91	1.81	good recovery
	10/6/20	718.72	721.47	5.18	15.09	9.91	-0.62	716.29	2.43	good recovery
MW-27S	4/4/13	720.57	723.10	3.68	17.39	13.71		719.42	1.15	
	10/3/19	720.14	723.72	OB	OB	OB		OB	OB	obstruction
	3/31/20	720.14	723.72	OB	OB	OB		OB	OB	obstruction
	7/6/20	720.14	723.72	OB	OB	OB		OB	OB	obstruction
	Abandoned 10/13/2020									
MW-30S	4/4/13	725.35	727.34	3.42	14.72	11.30		723.92	1.43	
	10/8/19	725.60	727.33	3.21	14.50	11.29	-0.01	724.12	1.48	good recovery
	1/3/20	725.60	727.33	2.88	14.50	11.62	0.33	724.45	1.14	
	3/31/20	725.60	727.33	2.75	14.50	11.75	0.13	724.58	1.01	good recovery
	7/6/20	725.60	727.33	4.21	14.49	10.28	-1.47	723.12	2.48	good recovery
	10/7/20	725.60	727.33	4.50	14.48	9.98	-0.30	722.83	2.76	good recovery
MW-31S	4/3/13			NS	NS	NS		NS	NS	not located
MW-31SR	10/8/19	723.13	725.94	1.53	17.35	15.82		724.41	-1.29	moderate recovery
	12/31/19	723.13	725.94	3.08	17.35	14.27	-1.55	722.86	0.26	slow recovery
	4/7/20	723.13	725.94	3.32	17.35	14.03	-0.24	722.62	0.50	moderate recovery
	7/8/20	723.13	725.94	3.12	17.40	14.28	0.25	722.82	0.30	poor recovery
	10/8/20	723.13	725.94	3.02	17.42	14.40	0.12	722.92	0.20	poor recovery
MW-32S	4/4/13	719.68	722.79	5.13	14.95	9.82		717.66	2.02	
MW-32SR	10/3/19	719.16	721.95	3.24	17.62	14.38		718.71	0.46	good recovery
	12/31/19	719.16	721.95	3.28	17.58	14.30	-0.08	718.67	0.50	
	3/31/20	719.16	721.95	3.86	17.59	13.73	-0.57	718.09	1.08	good recovery, dup #1
	7/6/20	719.16	721.95	5.60	17.59	11.99	-1.74	716.35	2.82	good recovery, dup #1
	10/7/20	719.16	721.95	5.48	17.60	12.12	0.13	716.47	2.70	good recovery

Table 2
Groundwater Elevation Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	Ground Elevation	Top of Casing	Depth to Groundwater	Well Depth	Water Column	Water Column Difference	Groundwater Elevation	Depth to Groundwater	Physical Observations
		(feet MSL)	(feet MSL)	(feet TOC)	(feet TOC)	(feet)	(feet)	(feet MSL)	(feet bgs)	
MW-33S	4/4/13	719.25	721.81	4.49	14.95	10.46		717.32	1.93	
	10/3/19	719.04	722.31	3.93	14.70	10.77	0.31	718.38	0.67	good recovery
	12/31/19	719.04	722.31	4.26	14.70	10.44	-0.33	718.05	1.00	
	3/31/20	719.04	722.31	4.75	14.70	9.95	-0.49	717.56	1.49	good recovery
	7/6/20	719.04	722.31	6.31	14.70	8.39	-1.56	716.00	3.05	good recovery
	10/5/20	719.04	722.31	7.21	14.72	7.51	-0.88	715.10	3.95	good recovery
MW-34S	4/4/13	718.97	721.52	4.45	14.97	10.52		717.07	1.90	
MW-34SR	10/7/19	718.18	720.82	3.74	17.78	14.04		717.08	1.11	dry, Dup #3
	1/3/20	718.18	720.82	3.11	17.73	14.62	0.58	717.71	0.48	sulfur odor
	3/31/20	718.18	720.82	3.41	17.75	14.34	-0.28	717.41	0.78	moderate recovery
	7/6/20	718.18	720.82	4.63	17.80	13.17	-1.17	716.19	2.00	going dry
	10/5/20	718.18	720.82	4.55	17.79	13.24	0.07	716.27	1.92	moderate recovery
MW-34S-N	4/5/13	715.41	718.71	3.52	18.15	14.63		715.19	0.22	
	10/8/19	715.30	717.22	3.38	17.41	14.03	-0.60	713.84	1.46	dry
	1/8/20	715.30	717.22	2.82	17.41	14.59	0.56	714.40	0.90	slow recovery
	3/31/20	715.30	717.22	OB	OB	OB	OB		OB	obstruction
	7/6/20	715.30	717.22	OB	OB	OB	OB		OB	obstruction
	Abandoned 10/13/2020									
MW-35S	4/4/13	718.14	721.75	4.06	14.63	10.57		717.69	0.45	
	10/7/19	718.55	722.48	4.50	14.41	9.91	-0.66	717.98	0.57	very good recovery
	1/8/20	718.55	722.48	4.66	14.41	9.75	-0.16	717.82	0.73	
	4/2/20	718.55	722.48	4.73	14.40	9.67	-0.08	717.75	0.80	good recovery
	7/8/20	718.55	722.48	5.61	14.60	8.99	-0.68	716.87	1.68	good recovery
	10/7/20	718.55	722.48	5.76	14.57	8.81	-0.18	716.72	1.83	good recovery
MW-37S	4/4/13	721.33	723.30	4.80	15.00	10.20		718.50	2.83	
	10/7/19	722.65	723.66	4.57	14.47	9.90	-0.30	719.09	3.56	
	12/31/19	722.65	723.66	4.26	14.47	10.21	0.31	719.40	3.25	slow recovery
	4/7/20	722.65	723.66	5.75	14.50	8.75	-1.46	717.91	4.74	good recovery
	7/9/20	722.65	723.66	6.81	14.79	7.98	-0.77	716.85	5.80	good recovery
	10/7/20	722.65	723.66	6.28	14.77	8.49	0.51	717.38	5.27	moderate recovery
MW-38S	4/4/13	718.36	721.74	4.09	18.20	14.11		717.65	0.71	
	10/7/19	718.88	722.37	4.42	17.95	13.53	-0.58	717.95	0.94	
	1/3/20	718.88	722.37	4.29	17.95	13.66	0.13	718.08	0.81	
	4/2/20	718.88	722.37	4.74	17.95	13.21	-0.45	717.63	1.26	good recovery
	7/7/20	718.88	722.37	6.23	17.98	11.75	-1.46	716.14	2.75	good recovery
	10/8/20	718.88	722.37	7.01	17.98	10.97	-0.78	715.36	3.53	good recovery
MW-39S	4/4/13	717.80	721.10	3.42	17.93	14.51		717.68	0.12	
	10/8/19	718.11	721.36	3.67	17.99	14.32	-0.19	717.69	0.42	good recovery
	1/3/20	718.11	721.36	3.30	17.99	14.69	0.37	718.06	0.05	
	3/31/20	718.11	721.36	3.79	18.00	14.21	-0.48	717.57	0.54	good recovery
	7/6/20	718.11	721.36	5.14	18.00	12.86	-1.35	716.22	1.89	good recovery
	10/5/20	718.11	721.36	4.74	17.99	13.25	0.39	716.62	1.49	good recovery
TG1-1	4/3/13	719.77	723.32	4.65	15.10	10.45		718.67	1.10	
TG1-1R	10/3/19	720.92	723.45	3.45	17.45	14.00		720.00	0.92	dry
	1/7/20	720.92	723.45	3.70	17.45	13.75	-0.25	719.75	1.17	
	4/1/20	720.92	723.45	3.52	17.45	13.93	0.18	719.93	0.99	good recovery, dup#03
	7/7/20	720.92	723.45	4.79	17.50	12.71	-1.22	718.66	2.26	good recovery
	10/5/20	720.92	723.45	4.80	17.46	12.66	-0.05	718.65	2.27	moderate recovery

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Well ID	Date	Ground Elevation	Top of Casing	Depth to Groundwater	Well Depth	Water Column	Water Column Difference	Groundwater Elevation	Depth to Groundwater	Physical Observations
		(feet MSL)	(feet MSL)	(feet TOC)	(feet TOC)	(feet)	(feet)	(feet MSL)	(feet bgs)	
TG1-2	4/3/13	720.06	722.81			0.00		722.81	-2.75	
	10/3/19	719.78	723.80	4.62	14.30	9.68		719.18	0.61	good recovery
	1/7/20	719.78	723.80	4.93	14.30	9.37	-0.31	718.87	0.91	
	3/31/20	719.78	723.80	4.87	14.30	9.43	0.06	718.93	0.86	good recovery
	7/7/20	719.78	723.80	6.25	14.40	8.15	-1.28	717.55	2.24	good recovery
	10/5/20	719.78	723.80	6.31	14.36	8.05	-0.10	717.49	2.29	good recovery
TG1-3	4/3/13	719.56	722.53	3.41	14.62	11.21		719.12	0.44	
	10/3/19	719.60	723.16	4.02	14.39	10.37	-0.84	719.14	0.46	good recovery
	1/8/20	719.60	723.16	4.36	14.39	10.03	-0.34	718.80	0.80	slow recovery
	3/31/20	719.60	723.16	4.29	14.40	10.11	0.08	718.87	0.73	good recovery, dup#02
	7/7/20	719.60	723.16	5.81	14.43	8.62	-1.49	717.35	2.25	good recovery
	10/5/20	719.60	723.16	5.81	14.44	8.63	0.01	717.35	2.25	moderate recovery
TG2-1	4/3/13	720.67	723.80	4.25	15.00	10.75		719.55	1.12	
	10/8/19	720.19	723.80	4.32	14.80	10.48	-0.27	719.48	0.71	slow recovery
	1/7/20	720.19	723.80	4.67	14.80	10.13	-0.35	719.13	1.06	slow recovery
	4/1/20	720.19	723.80	4.66	14.80	10.14	0.01	719.14	1.05	moderate recovery
	7/7/20	720.19	723.80	6.59	14.78	8.19	-1.95	717.21	2.98	good recovery
	Destroyed; Abandoned July 2020									
TG2-2	4/3/13	720.62	723.05	5.63	14.80	9.17		717.42	3.20	
	10/8/19	720.60	723.35	3.38	14.55	11.17	2.00	719.97	0.62	moderate recovery
	1/7/20	720.60	723.35	3.72	14.55	10.83	-0.34	719.63	0.96	Duplicate #4
	4/1/20	720.60	723.35	3.69	14.55	10.86	0.03	719.66	0.93	good recovery
	7/7/20	720.60	723.35	5.70	14.63	8.93	-1.93	717.65	2.94	moderate recovery
	10/5/20	720.60	723.35	5.49	14.69	9.20	0.27	717.86	2.73	good recovery, dup #1
TG2-3	4/3/13	720.06	722.61	4.05	OB	OB		718.56	1.50	
	10/8/19	719.83	723.93	4.45	14.75	10.30		719.48	0.35	slow recovery
	1/7/20	719.83	723.93	4.65	14.75	10.10	-0.20	719.28	0.55	slow recovery
	4/1/20	719.83	723.93	4.72	14.75	10.03	-0.07	719.21	0.62	moderate recovery
	7/7/20	719.83	723.93	6.76	14.79	8.03	-2.00	717.17	2.66	moderate recovery
	10/5/20	719.83	723.93	6.36	14.78	8.42	0.39	717.57	2.26	slow recovery
TG3-1	4/3/13	719.14	721.05	3.41	14.60	11.19		717.64	1.50	
	10/8/19	718.93	721.88	3.65	14.60	10.95	-0.24	718.23	0.71	good recovery
	1/7/20	718.93	721.88	4.16	14.60	10.44	-0.51	717.72	1.22	
	4/2/20	718.93	721.88	4.21	14.60	10.39	-0.05	717.67	1.27	good recovery
	7/8/20	718.93	721.88	4.95	14.65	9.70	-0.69	716.93	2.01	good recovery
	10/6/20	718.93	721.88	4.92	14.61	9.69	-0.01	716.96	1.98	good recovery, dup #2
TG3-2	4/3/13	718.87	720.92	3.25	14.25	11.00		717.67	1.20	
	10/8/19	718.67	721.68	3.13	14.00	10.87	-0.13	718.55	0.12	good recovery
	1/7/20	718.67	721.68	3.56	14.00	10.44	-0.43	718.12	0.55	
	4/2/20	718.67	721.68	4.11	14.00	9.89	-0.55	717.57	1.10	good recovery
	7/8/20	718.67	721.68	4.64	14.36	9.72	-0.17	717.04	1.63	good recovery
	10/6/20	718.67	721.68	4.47	14.30	9.83	0.11	717.21	1.46	good recovery
TG3-3	4/3/13	718.35	720.60	OB	OB	OB		OB	OB	
	10/8/19	718.01	721.52	3.03	14.75	11.72		718.49	-0.48	good recovery
	1/8/20	718.01	721.52	3.43	14.75	11.32	-0.40	718.09	-0.08	
	4/2/20	718.01	721.52	3.98	14.75	10.77	-0.55	717.54	0.47	good recovery
	7/8/20	718.01	721.52	4.45	14.78	10.33	-0.44	717.07	0.94	good recovery
	10/6/20	718.01	721.52	4.34	14.74	10.40	0.07	717.18	0.83	good recovery

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		(feet MSL)	(feet MSL)	(feet TOC)	(feet TOC)	(feet)	(feet)	(feet MSL)	(feet bgs)	
TG4-1	4/3/13	718.06	721.14	OB	OB	OB		OB	OB	
	10/7/19	717.96	722.27	4.43	14.45	10.02		717.84	0.13	good recovery
	12/31/19	717.96	722.27	4.31	14.45	10.14	0.12	717.96	0.01	
	4/2/20	717.96	722.27	4.85	14.45	9.60	-0.54	717.42	0.55	good recovery
	7/8/20	717.96	722.27	5.45	14.46	9.01	-0.59	716.82	1.15	good recovery
	10/7/20	717.96	722.27	4.80	14.71	9.91	0.90	717.47	0.50	good recovery
TG4-2	4/3/13	718.26	720.75	3.85	14.93	11.08		716.90	1.36	
	10/7/19	717.93	721.71	4.03	14.75	10.72	-0.36	717.68	0.26	good recovery
	12/31/19	717.93	721.71	3.97	14.69	10.72	0.00	717.74	0.20	
	4/2/20	717.93	721.71	4.39	14.70	10.31	-0.41	717.32	0.62	good recovery
	7/8/20	717.93	721.71	4.84	14.70	9.86	-0.45	716.87	1.07	good recovery
	10/7/20	717.93	721.71	5.36	14.45	9.09	-0.77	716.35	1.59	good recovery
TG4-3	4/3/13	718.01	720.04	3.03	14.28	11.25		717.01	1.00	
	10/7/19	717.62	720.73	3.19	14.10	10.91	-0.34	717.54	0.08	good recovery
	12/31/19	717.62	720.73	3.10	14.05	10.95	0.04	717.63	-0.01	
	4/2/20	717.62	720.73	3.44	14.05	10.61	-0.34	717.29	0.33	good recovery
	7/8/20	717.62	720.73	3.88	14.10	10.22	-0.39	716.85	0.77	good recovery
	10/6/20	717.62	720.73	3.63	14.06	10.43	0.21	717.10	0.52	good recovery
TG5-1	4/3/13	717.60	721.12	4.85	14.65	9.80		716.27	1.33	
	9/27/19	717.79	722.15	4.76	14.40	9.64	-0.16	717.39	0.40	good recovery
	1/7/20	717.79	722.15	4.83	14.40	9.57	-0.07	717.32	0.47	
	4/3/20	717.79	722.15	5.46	14.40	8.94	-0.63	716.69	1.10	good recovery
	7/9/20	717.79	722.15	6.11	14.49	8.38	-0.56	716.04	1.75	good recovery, dup #3
	10/6/20	717.79	722.15	4.99	14.46	9.47	1.09	717.16	0.63	good recovery
TG5-2	4/3/13	718.18	720.63	4.25	14.80	10.55		716.38	1.80	
	10/7/19	717.62	721.91	4.32	14.55	10.23	-0.32	717.59	0.02	good recovery
	1/7/20	717.62	721.91	4.45	14.55	10.10	-0.13	717.46	0.15	Duplicate #6
	4/3/20	717.62	721.91	5.40	14.55	9.15	-0.95	716.51	1.10	moderate recovery, dup #4
	7/9/20	717.62	721.91	6.37	14.61	8.24	-0.91	715.54	2.07	good recovery
	10/7/20	717.62	721.91	4.94	14.58	9.64	1.40	716.97	0.64	good recovery
TG5-3	4/3/13	718.17	719.99	3.53	15.02	11.49		716.46	1.71	
	9/27/19	716.92	720.87	3.47	14.75	11.28	-0.21	717.40	-0.48	slow recovery
	12/31/19	716.92	720.87	3.20	14.75	11.55	0.27	717.67	-0.75	
	4/3/20	716.92	720.87	4.24	14.75	10.51	-1.04	716.63	0.29	good recovery
	7/9/20	716.92	720.87	5.12	14.80	9.68	-0.83	715.75	1.17	going dry
	10/6/20	716.92	720.87	4.06	14.80	10.74	1.06	716.81	0.11	going dry
TG6-1	4/3/13	719.47	721.96	4.54	15.02	10.48		717.42	2.05	
	9/27/19	719.16	722.41	3.16	14.80	11.64	1.16	719.25	-0.09	
	12/31/19	719.16	722.41	3.45	14.80	11.35	-0.29	718.96	0.20	slow recovery
	4/7/20	719.16	722.41	5.51	14.80	9.29	-2.06	716.90	2.26	good recovery
	7/9/20	719.16	722.41	6.40	14.79	8.39	-0.90	716.01	3.15	moderate recovery
	10/6/20	719.16	722.41	5.22	14.79	9.57	1.18	717.19	1.97	good recovery
TG6-2	4/3/13	719.70	722.05	4.67	14.23	9.56		717.38	2.32	
	9/27/19	719.49	722.74	3.49	14.10	10.61	1.05	719.25	0.24	moderate recovery
	1/10/20	719.49	722.74	4.74	14.14	9.40	-1.21	718.00	1.49	
	4/7/20	719.49	722.74	5.79	14.15	8.36	-1.04	716.95	2.54	good recovery
	7/9/20	719.49	722.74	6.69	14.77	8.08	-0.28	716.05	3.44	good recovery
	10/6/20	719.49	722.74	5.61	14.45	8.84	0.76	717.13	2.36	good recovery, dup #3

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		(feet MSL)	(feet MSL)	(feet TOC)	(feet TOC)	(feet)	(feet)	(feet MSL)	(feet bgs)	
TG6-3	4/3/13	719.58	722.47	4.50	14.65	10.15		717.97	1.61	
	9/27/19	719.47	722.92	3.62	14.45	10.83	0.68	719.30	0.17	moderate recovery
	12/31/19	719.47	722.92	3.83	14.45	10.62	-0.21	719.09	0.38	
	4/7/20	719.47	722.92	5.74	14.45	8.71	-1.91	717.18	2.29	good recovery
	7/9/20	719.47	722.92	6.78	14.50	7.72	-0.99	716.14	3.33	good recovery
	10/6/20	719.47	722.92	5.83	14.48	8.65	0.93	717.09	2.38	good recovery
PZ-01	4/4/13	718.04	721.05	3.85	14.90	11.05		717.20	0.84	
	10/8/19	717.81	721.47	3.71	14.55	10.84	-0.21	717.76	0.05	slow recovery
	1/7/20	717.81	721.47	4.18	14.55	10.37	-0.47	717.29	0.51	
	4/7/20	717.81	721.47	4.49	14.55	10.06	-0.31	716.98	0.83	slow recovery
	7/9/20	717.81	721.47	4.77	14.58	9.81	-0.25	716.70	1.11	good recovery
	10/8/20	717.81	721.47	4.58	14.51	9.93	0.12	716.89	0.92	good recovery
PZ-02	4/4/13	718.89	721.84	5.94	14.85	8.91		715.90	2.99	
	10/3/19	718.36	721.73	4.25	14.75	10.50	1.59	717.48	0.89	good recovery
	1/7/20	718.36	721.73	6.09	14.75	8.66	-1.84	715.64	2.73	Duplicate #1
	3/31/20	718.36	721.73	4.96	14.75	9.79	1.13	716.77	1.60	good recovery
	7/7/20	718.36	721.73	6.59	14.75	8.16	-1.63	715.14	3.23	good recovery
	10/8/20	718.36	721.73	6.88	14.76	7.88	-0.28	714.85	3.52	good recovery
PZ-03	4/4/13	719.00	722.09	4.60	14.85	10.25		717.49	1.51	
	10/8/19	718.71	722.29	4.65	14.61	9.96	-0.29	717.64	1.06	good recovery
	1/8/20	718.71	722.29	4.57	14.61	10.04	0.08	717.72	0.98	Duplicate #2
	3/31/20	718.71	722.29	4.54	14.60	10.06	0.02	717.75	0.95	good recovery, dup #02
	7/13/20	718.71	722.29	5.88	14.68	8.80	-1.26	716.41	2.29	good recovery, dup #4
	10/8/20	718.71	722.29	5.72	14.66	8.94	0.14	716.57	2.13	good recovery, dup #4
PZ-04	4/4/13	717.30	720.22	OB	OB	OB	OB	OB	OB	
	9/27/19	716.59	720.73	4.26	15.75	11.49		716.47	0.12	slow recovery
	1/3/20	716.59	720.73	4.24	15.75	11.51	0.02	716.49	0.10	slow recovery
	4/7/20	716.59	720.73	4.24	15.75	11.51	0.00	716.49	0.10	slow recovery
	7/13/20	716.59	720.73	3.75	14.10	10.35	-1.16	716.98	-0.39	purged dry twice
	10/7/20	716.59	720.73	4.20	14.06	9.86	-0.49	716.53	0.06	moderate recovery
PZ-05	4/4/13	724.34	727.43	5.10	14.82	9.72		722.33	2.01	
	10/7/19	726.26	727.51	2.07	14.56	12.49	2.77	725.44	0.82	good recovery
	1/3/20	726.26	727.51	1.39	14.56	13.17	0.68	726.12	0.14	
	4/7/20	726.26	727.51	1.85	14.55	12.70	-0.47	725.66	0.60	good recovery
	7/9/20	726.26	727.51	5.05	14.80	9.75	-2.95	722.46	3.80	good recovery
	10/7/20	726.26	727.51	5.90	14.78	8.88	-0.87	721.61	4.65	good recovery
PZ-06	4/4/13	724.62	727.79	3.91	13.40	9.49		723.88	0.74	
	10/8/19	724.50	728.07	3.77	13.55	9.78	0.29	724.30	0.21	slow recovery
	1/3/20	724.50	728.07	3.92	13.55	9.63	-0.15	724.15	0.36	slow recovery
	4/7/20	724.50	728.07	3.93	13.55	9.62	-0.01	724.14	0.37	slow recovery
	7/9/20	724.50	728.07	3.98	13.17	9.19	-0.43	724.09	0.42	poor recovery
	10/8/20	724.50	728.07	4.72	13.17	8.45	-0.74	723.35	1.16	slow recovery
PZ-07	4/4/13	725.78	728.72	OB	OB	OB	OB	OB	OB	
	10/8/19	725.78	728.72	OB	OB	OB	OB	OB	OB	obstruction
	4/7/20	725.78	728.72	OB	OB	OB	OB	OB	OB	obstruction
	7/9/20	725.78	728.72	OB	OB	OB	OB	OB	OB	obstruction
	Abandoned 10/13/2020									

Table 2
Groundwater Elevation Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	Ground Elevation	Top of Casing	Depth to Groundwater	Well Depth	Water Column	Water Column Difference	Groundwater Elevation	Depth to Groundwater	Physical Observations
		(feet MSL)	(feet MSL)	(feet TOC)	(feet TOC)	(feet)	(feet)	(feet MSL)	(feet bgs)	
PZ-09	4/4/13	721.12	724.08	OB	OB	OB	OB	OB	OB	
PZ-09R	10/3/19	720.63	723.62	2.56	17.62	15.06		721.06	-0.43	good recovery
	1/7/20	720.63	723.62	2.86	17.62	14.76	-0.30	720.76	-0.13	Duplicate #3
	4/1/20	720.63	723.62	2.81	17.60	14.79	0.03	720.81	-0.18	good recovery
	7/7/20	720.63	723.62	3.33	17.68	14.35	-0.44	720.29	0.34	good recovery, dup #2
	10/5/20	720.63	723.62	2.99	17.69	14.70	0.35	720.63	0.00	good recovery
PZ-10	4/4/13	722.04	725.05	4.83	14.95	10.12		720.22	1.82	
	10/8/19	721.74	725.84	5.83	14.73	8.90	-1.22	720.01	1.73	slow recovery
	1/3/20	721.74	725.84	5.87	14.73	8.86	-0.04	719.97	1.77	
	4/7/20	721.74	725.84	5.82	14.75	8.93	0.07	720.02	1.72	good recovery
	7/7/20	721.74	725.84	5.81	14.62	8.81	-0.12	720.03	1.71	good recovery
	10/8/20	721.74	725.84	5.40	14.61	9.21	0.40	720.44	1.30	slow recovery
MW-A	4/5/13	716.73	716.15	0.77	11.80	11.03		715.38	1.35	
	10/8/19	715.70	715.42	0.79	11.57	10.78	-0.25	714.63	1.07	going dry
	1/3/20	715.70	715.42	0.42	11.57	11.15	0.37	715.00	0.70	
	4/3/20	715.70	715.42	1.22	11.60	10.38	-0.77	714.20	1.50	moderate recovery
	7/13/20	715.70	715.42	1.00	11.67	10.67	0.29	714.42	1.28	good recovery, dup #5
	Abandoned 10/13/2020									
MW-B	4/5/13	714.92	714.49	0.70	11.63	10.93		713.79	1.13	
	10/8/19	714.48	714.10	NS	NS	NS		NS	NS	
	1/10/20	714.48	714.10	0.81	11.44	10.63		713.29	1.19	Duplicate #5
	4/8/20	714.48	714.10	0.06	11.55	11.49	0.86	714.04	0.44	moderate recovery, dup #05
	7/14/20	714.48	714.10	1.22	11.46	10.24	-1.25	712.88	1.60	good recovery
	Abandoned 10/13/2020									
MW-C	4/5/13	714.18	713.82	0.00	12.50	12.50		713.82	0.36	
	10/8/19	713.73	713.31	NS	NS	NS		NS	NS	
	1/10/20	713.73	713.31	NS	11.27	NS		NS	NS	
	4/8/20	713.73	713.31	0.00	11.25					good recovery
	7/14/20	713.73	713.31	Under Water						Well under water
	Abandoned 10/13/2020									
MW-D	4/5/13	716.21	715.85	0.20	12.00	11.80		715.65	0.56	
	10/8/19	NS	NS	NS	NS	NS		NS	NS	
	1/10/20	NS	NS	NS	NS	NS		NS	NS	
	4/8/20	NS	NS	NS	NS	NS		NS	NS	
	7/14/20	NS	NS	NS	NS	NS		NS	NS	Not located
	Not Located									
MW-E	4/5/13	713.26	712.83	1.17	18.85	17.68		711.66	1.60	
	10/8/19	712.90	712.57	NS	NS	NS		NS	NS	
	1/10/20	712.90	712.57	1.27	18.61	17.34		711.30	1.60	going dry
	4/8/20	712.90	712.57	1.17	18.60	17.43	0.09	711.40	1.50	moderate recovery
	7/14/20	712.90	712.57	2.40	19.46	17.06	-0.37	710.17	2.73	good recovery
	Abandoned 10/13/2020									
MW-F	4/5/13	713.52	713.10	1.95	19.55	17.60		711.15	2.37	
	10/8/19	713.34	712.97	NS	NS	NS		NS	NS	
	1/10/20	713.34	712.97	2.60	19.41	16.81		710.37	2.98	
	4/8/20	713.34	712.97	2.43	19.40	16.97	0.16	710.54	2.81	good recovery
	7/14/20	713.34	712.97	1.40	18.60	17.20	0.23	711.57	1.78	purged dry
	Abandoned 10/13/2020									

Table 2
Groundwater Elevation Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	Ground Elevation	Top of Casing	Depth to Groundwater	Well Depth	Water Column	Water Column Difference	Groundwater Elevation	Depth to Groundwater	Physical Observations
		(feet MSL)	(feet MSL)	(feet TOC)	(feet TOC)	(feet)	(feet)	(feet MSL)	(feet bgs)	
MW-G	4/5/13	713.21	712.75	1.55	13.83	12.28		711.20	2.01	
	10/8/19	712.69	712.48	NS	NS	NS		NS	NS	
	1/10/20	712.69	712.48	NS	NS	NS		NS	NS	
	4/8/20	NS	NS	NS	NS	NS		NS	NS	
	7/14/20	NS	NS	NS	NS	NS		NS	NS	destroyed
	Abandoned 10/13/2020									
MW-H	4/5/13	710.40	710.07	0.00	18.10	18.10		710.07	0.33	
	10/8/19	710.01	709.72	NS	NS	NS		NS	NS	
	1/10/20	710.01	709.72	0.10	17.85	17.75		709.62	0.39	
	4/8/20	710.01	709.72	0.00	17.85	17.85	0.10	709.72	0.29	good recovery
	7/14/20	710.01	709.72	0.00	17.77	17.77	-0.08	709.72	0.29	good recovery
	10/8/20	710.01	709.72	0.15	17.78	17.63	-0.14	709.57	0.44	good recovery
MW-I	4/5/13	710.27	709.92	1.50	9.00	7.50		708.42	1.85	
	10/8/19	NS	NS	NS	NS	NS		NS	NS	
	1/10/20	NS	NS	NS	NS	NS		NS	NS	
	4/8/20	NS	NS	NS	NS	NS		NS	NS	
	7/14/20	NS	NS	NS	NS	NS		NS	NS	not located
	Not Located									
MW-J	4/5/13	710.08	709.85	0.00	14.75	14.75		709.85	0.23	
	10/8/19	NS	NS	NS	NS	NS		NS	NS	
	1/10/20	710.08	709.85	0.12	14.53	14.41		709.73	0.35	
	4/8/20	710.08	709.85	0.05	14.55	14.50	0.09	709.80	0.28	good recovery
	7/13/20	710.08	709.85	0.00	14.50	14.50	0.00	709.85	0.23	good recovery
	Abandoned 10/13/2020									
MW-K	4/5/13	707.13	706.70	NS	NS	NS		NS	NS	submerged
	10/8/19	NS	NS	NS	NS	NS		NS	NS	
	1/10/20	NS	NS	NS	NS	NS		NS	NS	
	4/8/20	NS	NS	NS	NS	NS		NS	NS	submerged
	7/14/20	NS	NS	NS	NS	NS		NS	NS	under water
	Under Water									

Notes:

1. feet MSL = feet above Mean Sea Level
2. feet bgs = feet below ground surface
3. feet TOC = feet below top of casing
4. OB = obstruction
5. NS = not sampled

Table 3
Groundwater *In Situ* Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	In Situ Measurements						
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Specific Conductance (mmhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Redox Potential (mV)
MW-5S	9/27/10	6.57	12.15	NA	1.695	0.72	11.20	36.1
	4/4/13	7.20	9.00	3.0	NA	NA	2.00	35.0
	10/8/19	7.37	10.5	2.2	1.938	187	0.61	348.6
	1/3/20	7.64	10.2	0.0	1.436	37.6	1.84	204.4
	3/31/20	7.52	8.1	0.0	1.491	64.5	2.47	237.1
	7/6/20	6.44	10.8	0.6	1.345	34.4	2.61	236.4
	10/7/20	7.40	11.1	0.0	1.157	33.8	0.28	-114.2
MW-7S	9/28/10	6.89	13.12	NA	1.244	4.16	0.80	-70.0
	4/4/13	7.10	5.90	3.6	NA	NA	1.40	-15.0
	10/7/19	7.21	14.6	2.8	1.867	132	1.58	301.5
	1/3/20	7.20	7.5	2.8	1.142	82.9	1.02	172.4
	3/31/20	7.55	4.4	4.2	0.572	41.3	2.86	247.0
	7/6/20	7.81	17.8	4.0	0.719	9.8	2.77	129.2
	10/8/20	7.22	14.5	2.0	1.051	42.7	0.31	-141.7
MW-7S-W	9/29/10	NI	NI	NI	NI	NI	NI	NI
	4/5/13	7.20	6.10	0.0	NA	NA	1.90	-182.0
MW-7S-WR	10/3/19	7.19	14.3	0.0	1.531	7.21	1.41	274.3
	1/3/20	7.43	7.3	0.0	1.239	15.0	0.80	216.3
	3/31/20	7.55	5.6	0.0	1.207	28.5	3.12	205.6
	7/6/20	6.44	14.5	0.8	1.226	31.1	2.64	245.0
	10/5/20	7.20	13.9	0.0	1.066	10.4	0.11	-51.2
MW-9S	9/30/10	6.69	13.75	NA	0.980	2.06	1.70	-21.3
	4/4/13	7.30	5.60	8.0	NA	NA	1.50	-36.0
	9/27/19	6.89	12.8	2.0	1.536	52.1	1.5	237.2
	12/31/19	6.76	6.7	2.4	1.337	29.5	0.62	265.3
	4/3/20	7.46	6.6	4.8	1.249	35.7	0.81	186.5
	7/13/20	7.41	14.3	4.6	1.056	30.4	2.01	221.3
	10/6/20	6.91	12.4	5.0	1.014	55.4	0.10	-83.6
MW-27S	9/27/10	6.47	14.51	NA	1.471	1.44	0.80	-70.1
	4/4/13	7.30	7.50	3.0	NA	NA	1.40	-58.0
	10/3/19	OB	OB	OB	OB	OB	OB	OB
	3/31/20	OB	OB	OB	OB	OB	OB	OB
	7/6/20	OB	OB	OB	OB	OB	OB	OB
	Abandoned 10/13/2020							
MW-30S	9/28/10	6.72	13.87	NA	1.370	0.46	0.80	45.5
	4/4/13	7.30	7.60	0.8	NA	NA	1.90	40.0
	10/8/19	7.09	11.6	1.6	1.988	187	1.9	346.9
	1/3/20	7.29	9.6	0.0	1.403	133	0.54	220.3
	3/31/20	7.57	7.1	1.4	1.337	89.1	1.77	242.0
	7/6/20	6.44	12.2	1.2	1.337	28.3	2.54	219.9
	10/7/20	7.14	12.0	0.0	1.104	30.2	0.15	-83.7

Table 3
Groundwater *In Situ* Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	In Situ Measurements						
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Specific Conductance (mmhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Redox Potential (mV)
MW-31S	9/29/10	6.90	13.37	NA	1.116	4.51	0.80	-16.1
	4/3/13	NS	NS	NS	NS	NS	NS	NS
MW-31SR	10/8/19	7.34	11.9	0.0	1.431	13.5	5.1	255.2
	12/31/19	7.22	8.9	0.0	0.968	19.3	1.54	225.9
	4/7/20	7.92	5.7	0.0	0.966	39.9	1.89	182.2
	7/8/20	7.60	18.2	0.0	0.839	12.0	2.23	271.4
	10/8/20	7.36	13.1	0.0	0.880	37.8	0.27	-85.4
MW-32S	9/27/10	6.40	16.49	NA	1.136	2.08	2.40	-57.6
	4/4/13	7.40	6.40	6.8	NA	NA	1.40	-159.0
MW-32SR	10/3/19	6.74	12.7	3.8	1.873	34.6	2.2	347.0
	12/31/19	6.95	9.3	2.2	1.243	oo turbid for mete	1.82	250.4
	3/31/20	7.30	6.9	3.2	1.376	41.9	0.99	255.9
	7/6/20	6.67	12.7	1.4	0.876	39.6	0.98	192.7
	10/7/20	6.95	13.9	0.0	1.079	10.2	0.14	-108.4
MW-33S	9/28/10	6.34	14.60	NA	1.236	1.55	3.70	-18.2
	4/4/13	6.90	6.50	3.6	NA	NA	1.10	-15.0
	10/3/19	6.68	12.7	4.4	1.810	17.7	1.44	265.3
	12/31/19	7.50	6.5	2.0	1.253	17.8	1.08	251.1
	3/31/20	7.28	7.2	4.6	1.348	21.0	2.61	196.1
	7/6/20	7.11	13.6	1.4	1.061	80.2	2.83	187.1
	10/5/20	6.97	14.0	3.0	1.253	48.0	0.64	-186.7
MW-34S	9/28/10	NS	NS	NS	NS	NS	NS	NS
	4/4/13	7.20	6.20	7.0	NA	NA	0.49	-160.0
MW-34SR	10/7/19	6.74	14.2	0.0	3.472	10.5	1.29	282.1
	1/3/20	6.87	10.5	3.2	3.319	11.7	0.97	191.3
	3/31/20	7.38	8.1	3.2	2.318	12.8	1.89	283.1
	7/6/20	6.25	13.7	1.4	2.474	9.9	3.34	-38.7
	10/5/20	6.93	13.5	0.8	2.460	14.6	0.20	-111.7
MW-34S-N	9/28/10	NI	NI	NI	NI	NI	NI	NI
	4/5/13	7.10	6.00	0.0	NA	NA	2.40	131.0
	10/8/19	7.63	14.6	0.0	0.898	253	3.88	267.8
	1/8/20	7.92	4.6	0.0	0.734	630	6.84	200.7
	3/31/20	OB	OB	OB	OB	OB	OB	OB
	7/6/20	OB	OB	OB	OB	OB	OB	OB
	Abandoned 10/13/2020							
MW-35S	9/28/10	6.46	16.26	NA	1.527	0.91	0.80	-38.9
	4/4/13	NS	NS	NS	NA	NA	NS	NS
	10/17/19	7.12	16.1	4.4	1.298	201	2.92	307.8
	1/8/20	7.37	7.3	2.6	1.420	28.9	1.56	151.3
	4/2/20	7.21	6.2	4.2	1.482	14.6	1.96	243.7
	7/8/20	6.93	14.7	3.4	1.220	25.0	2.73	202.1
	10/7/20	6.98	15.1	3.8	1.135	61.4	0.23	-138.4

Table 3
Groundwater *In Situ* Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	In Situ Measurements						
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Specific Conductance (mmhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Redox Potential (mV)
MW-37S	9/29/10	6.71	15.58	NA	1.115	0.43	3.00	-18.6
	4/4/13	7.70	7.40	0.0	NA	NA	1.30	122.0
	10/7/19	7.56	12.5	4.4	1.223	64	0.8	218.9
	12/31/19	7.34	9.9	0.0	1.040	31.7	0.36	230.6
	4/7/20	7.76	6.7	0.0	0.969	26.0	0.72	173.5
	7/9/20	7.46	11.6	2.0	0.847	229.0	1.81	194.7
	10/7/20	7.45	12.9	0.0	0.910	29.5	0.11	-139.9
MW-38S	9/28/10	6.87	14.32	NA	1.221	4.75	1.00	-43.3
	4/4/13	7.00	7.90	2.0	NA	NA	1.10	-33.0
	10/7/19	7.02	15.3	1.6	1.337	103	2.95	267.4
	1/3/20	6.94	9.0	2.8	1.714	87.1	1.21	240.4
	4/2/20	7.97	7.4	2.2	1.115	44.4	0.83	130.8
	7/8/20	7.37	14.1	0.4	1.023	8.3	2.86	251.4
	10/8/20	7.19	14.2	1.6	0.958	66.7	0.31	-150.4
MW-39S	9/28/10	6.75	16.04	NA	1.255	4.84	0.40	-48.3
	4/4/13	7.60	6.50	4.2	NA	NA	0.97	-104.0
	10/8/19	6.93	15.9	2.8	1.607	121	2.36	292.6
	1/3/20	7.04	8.5	4.2	1.460	145	1.64	202.9
	3/31/20	7.45	6.3	4.6	1.431	159	1.93	254.3
	7/6/20	6.31	13.7	5.6	1.237	660	2.81	169.2
	10/5/20	6.99	13.8	2.2	1.094	9.57	0.09	-59.9
TG1-1	9/29/10	NA	NA	NA	NA	NA	NA	NA
	4/3/13	7.20	5.80	4.0	NA	NA	0.85	-120.0
TG1-1R	10/3/19	7.27	12.4	0.0	3.931	14.1	0.95	353.8
	1/7/20	7.33	9.3	0.0	2.985	2.4	0.36	218.5
	4/1/20	7.64	7.1	0.0	2.735	13.3	1.57	229.4
	7/7/20	6.87	11.5	0.0	2.075	6.0	1.18	156.7
	10/5/20	7.39	12.2	0.0	2.660	11.3	0.08	-110.4
TG1-2	10/3/19	7.14	14.6	5.0	2.165	44.2	1.92	322.0
	1/7/20	7.22	7.4	2.6	1.672	33.9	0.67	195.7
	3/31/20	7.52	5.4	2.6	1.758	20.5	1.74	270.6
	7/7/20	6.51	13.4	3.6	1.362	23.0	2.11	222.2
	10/5/20	7.34	14.3	3.6	1.508	42.5	0.20	-148.7
TG1-3	9/29/10	6.97	16.08	NA	1.196	3.81	1.68	-124.0
	4/3/13	7.10	5.10	3.6	NA	NA	0.55	-88.0
	10/3/19	7.00	16.0	4.5	1.927	42.6	1.91	160.0
	1/8/20	7.30	7.0	1.6	1.539	26.3	1.21	197.6
	3/31/20	7.46	6.2	2.8	1.373	34.9	0.54	254.9
	7/7/20	6.87	17.2	2.4	1.116	20.0	1.11	52.3
	10/5/20	7.21	15.3	3.6	1.240	40.4	0.09	-134.4

Table 3
Groundwater *In Situ* Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	In Situ Measurements						
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Specific Conductance (mmhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Redox Potential (mV)
TG2-1	9/29/10	6.77	14.23	NA	1.089	3.53	0.76	-2.5
	4/3/13	7.20	5.20	0.0	NA	NA	0.60	12.0
	10/8/19	7.20	13.5	0.0	1.502	33.4	2.2	266.7
	1/7/20	7.24	6.5	0.0	1.175	11.9	0.74	197.2
	4/1/20	7.49	5.3	1.2	1.122	34.0	0.64	243.5
	7/7/20	5.65	12.3	0.8	0.990	8.6	1.02	410.2
	Destroyed; Abandoned July 2020							
TG2-2	10/8/19	7.24	14.1	2.4	1.431	127	1.0	267.3
	1/7/20	7.32	7.0	1.6	1.067	131.0	0.90	194.0
	4/1/20	7.42	6.4	4.0	1.117	144.0	0.72	240.7
	7/7/20	7.07	14.5	4.8	0.926	89.9	1.15	196.9
	10/5/20	7.25	15.1	3.4	0.950	17.2	0.07	-142.9
TG2-3	9/29/10	6.88	16.63	NA	0.996	3.62	1.12	-113.6
	4/3/13	NS	NS	NS	NA	NA	NS	NS
	10/8/19	6.99	14.3	0.0	1.819	99.1	1.0	267.2
	1/7/20	7.45	7.5	0.0	1.006	46.3	1.46	193.1
	4/1/20	7.88	6.2	0.0	0.905	26.5	1.89	242.7
	7/7/20	6.62	12.6	3.6	1.114	14.5	1.25	136.6
	10/5/20	7.07	14.9	0.0	0.966	23.9	0.16	-87.7
TG3-1	9/29/10	6.81	16.75	NA	1.196	3.69	3.04	-67.1
	4/3/13	7.20	5.60	2.4	NA	NA	1.30	-96.0
	10/8/19	6.91	14.5	2.0	1.797	104	2.20	251.5
	1/7/20	7.35	6.0	4.2	1.177	48.4	0.73	204.1
	4/2/20	7.03	5.4	2.8	1.183	66.8	1.07	243.7
	7/8/20	6.91	16.5	5.0	0.788	23.4	1.89	377.4
	10/6/20	7.01	15.4	2.4	0.992	49.2	0.44	-163.1
TG3-2	10/8/19	7.12	15.2	2.6	1.503	105	2.0	263.4
	1/7/20	7.50	6.8	3.2	1.150	75.5	1.04	208.2
	4/2/20	7.08	5.4	3.8	1.087	112.0	0.80	243.8
	7/8/20	7.26	17.0	4.4	0.755	316.0	1.56	263.1
	10/6/20	7.19	15.2	3.0	0.935	19.5	0.16	-145.7
TG3-3	9/29/10	6.79	16.79	NA	1.106	4.00	1.19	-81.5
	4/3/13	NS	NS	NS	NA	NA	NS	NS
	10/8/19	6.96	14.2	2.4	1.643	32.9	2.8	279.4
	1/8/20	7.26	6.9	2.2	1.269	91.7	1.43	183.1
	4/2/20	6.98	5.5	3.2	1.195	158.0	0.78	246.7
	7/8/20	7.25	18.3	6.2	0.952	43.5	1.49	187.6
	10/6/20	6.98	15.0	2.2	1.026	33.3	0.16	-123.6

Table 3
Groundwater *In Situ* Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	In Situ Measurements						
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Specific Conductance (mmhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Redox Potential (mV)
TG4-1	9/29/10	6.97	15.83	NA	1.12	1.60	5.16	70.4
	4/3/13	NS	NS	NS	NA	NA	NS	NS
	10/7/19	7.10	15.2	4.2	1.673	79.1	2.7	271.5
	12/31/19	7.13	7.4	2.8	1.356	19.3	0.47	249.5
	4/2/20	7.09	5.2	3.4	1.270	16.0	0.53	243.8
	7/8/20	7.34	18.5	4.4	1.039	28.4	2.11	207.3
	10/7/20	7.18	15.0	2.2	1.051	18.8	0.06	-175.2
TG4-2	10/7/19	7.22	15.4	4.0	1.538	116	2.1	284.2
	12/31/19	7.15	8.1	2.4	1.270	24.6	0.92	270.8
	4/2/20	7.09	5.4	2.8	1.215	38.7	0.51	244.6
	7/8/20	7.37	15.8	4.6	1.043	30.5	1.58	173.2
	10/7/20	7.13	15.2	4.0	1.033	28.1	0.32	-153.6
TG4-3	9/29/10	7.16	15.96	NA	1.118	0.85	5.63	-6.3
	4/3/13	7.10	6.20	4.2	NA	NA	0.90	-129.0
	10/7/19	7.28	13.6	4.4	1.640	261	1.7	299.7
	12/31/19	7.30	8.3	2.2	1.263	32.6	2.50	271.3
	4/2/20	7.11	5.6	3.2	1.112	60.1	0.51	245.7
	7/8/20	7.54	16.6	4.4	0.953	57.0	1.83	168.2
	10/6/20	7.40	14.7	3.4	0.884	24.0	0.73	-119.2
TG5-1	9/29/10	6.89	15.68	NA	1.249	1.00	5.37	81.0
	4/3/13	7.00	6.10	4.0	NA	NA	1.00	-8.0
	9/27/19	7.13	13.4	2.4	3.181	47.8	2.4	333.2
	1/7/20	7.37	8.1	3.2	2.274	75.9	1.31	204.7
	4/3/20	7.79	6.3	3.2	1.525	7.0	2.15	195.7
	7/9/20	7.06	11.7	3.8	1.153	308.0	0.70	125.0
	10/6/20	7.15	14.1	2.0	1.414	42.8	0.25	-85.3
TG5-2	10/7/19	7.02	14.8	5.2	1.678	139	2.7	289.0
	1/7/20	7.22	6.1	4.2	1.330	25.0	0.93	215.3
	4/3/20	7.11	6.9	3.8	1.162	45.2	1.40	197.3
	7/9/20	7.63	14.0	3.6	1.076	6.2	2.13	174.1
	10/7/20	7.08	16.8	3.2	1.091	20.2	0.40	-143.3
TG5-3	9/29/10	7.08	15.31	NA	1.051	4.50	1.04	-36.5
	4/3/13	7.10	6.40	1.4	NA	NA	1.00	-14.0
	9/27/19	7.13	12.2	1.2	1.633	19.9	1.5	315.2
	12/31/19	7.05	8.9	0.6	1.199	68.5	2.00	222.4
	4/3/20	7.39	6.5	1.6	1.144	24.4	0.88	196.3
	7/9/20	7.21	10.4	0.0	0.985	33.9	0.59	188.2
	10/6/20	7.23	13.5	0.0	0.974	20.8	0.38	-50.2

Table 3
Groundwater *In Situ* Results
Moss American - 8716 North Granville Road, Milwaukee, WI
Sigma Project No. 18687

Well ID	Date	In Situ Measurements						
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Specific Conductance (mmhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Redox Potential (mV)
TG6-1	9/29/10	6.86	16.71	NA	1.359	2.06	0.72	-110.7
	4/3/13	7.30	5.80	0.0	NA	NA	1.20	-107.0
	9/27/19	6.90	13.5	0.0	1.456	16.7	2.9	289.3
	12/31/19	7.20	7.8	1.4	0.983	20.0	1.81	281.4
	4/7/20	7.35	6.1	2.6	0.986	18.4	0.89	185.4
	7/9/20	7.11	13.3	0.2	0.914	9.1	1.73	208.6
	10/6/20	7.13	15.1	2.2	0.851	7.17	0.17	-110.9
TG6-2	9/27/19	6.86	13.9	1.4	1.596	21.2	3.3	294.2
	1/10/20	7.12	6.4	0.0	1.241	17.8	1.81	163.6
	4/7/20	7.49	5.4	3.0	1.087	24.9	0.58	181.7
	7/9/20	6.81	13.7	4.0	0.689	30.9	1.90	161.0
	10/6/20	6.87	15.4	2.6	0.894	24.4	0.51	-73.0
TG6-3	9/29/10	6.58	15.76	NA	1.330	1.15	1.33	-46.4
	4/3/13	7.30	3.80	4.2	NA	NA	1.40	-14.0
	9/27/19	7.34	14.4	0.0	0.628	80.8	0.9	283.9
	12/31/19	7.06	5.8	2.4	1.137	27.3	2.78	283.7
	4/7/20	7.86	5.0	3.4	0.413	40.0	3.72	169.4
	7/9/20	7.35	14.4	0.8	0.414	34.5	1.83	159.1
	10/6/20	7.26	14.2	2.0	0.504	28.6	2.42	-72.9
PZ-01	10/8/19	6.98	13.4	0.0	1.578	389	3.2	263.1
	1/7/20	7.63	7.7	0.0	0.896	22.9	1.37	220.7
	4/7/20	7.90	6.4	0.0	0.838	51.7	0.92	168.0
	7/9/20	7.61	13.4	0.0	0.809	34.8	2.11	236.3
	10/8/20	7.53	14.6	0.0	0.749	20.4	0.73	-171.9
PZ-02	9/29/10	NS	NS	NS	NS	NS	NS	NS
	4/4/13	7.00	6.00	4.0	NA	NA	1.00	-12.0
	10/3/19	6.80	13.5	3.0	1.616	33.0	3.45	278.4
	1/7/20	6.87	8.6	3.0	1.456	26.0	1.08	186.6
	3/31/20	7.43	4.9	4.2	0.860	8.6	3.08	210.9
	7/7/20	7.86	13.1	1.0	1.165	13.5	4.32	291.1
	10/8/20	6.92	13.8	1.4	1.119	22.3	0.22	-142.0
PZ-03	9/29/10	NS	NS	NS	NS	NS	NS	NS
	4/4/13	7.20	6.80	4.0	NA	NA	0.95	-20.0
	10/8/19	6.93	16.5	3.4	2.028	172	2.84	342.6
	1/8/20	7.00	6.8	2.4	1.518	86.7	0.86	117.6
	3/31/20	7.16	5.0	2.4	0.746	66.0	3.20	252.7
	7/13/20	7.18	16.1	4.8	1.253	77.9	2.25	135.2
	10/8/20	6.93	16.5	1.4	1.242	14.9	0.15	-176.1

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PZ-04	9/27/19	7.01	12.6	1.2	1.567	853	1.6	247.2
	1/3/20	7.41	5.7	0.0	1.394	7.89	4.97	215.5
	4/7/20	7.87	6.1	1.4	0.634	31.40	3.22	165.2
	7/13/20	7.18	11.9	1.6	1.187	19.90	2.12	185.3
	10/7/20	7.27	13.3	1.8	1.095	15.00	2.33	-116.0
PZ-05	10/7/19	7.60	14.9	1.2	1.260	122	2.2	292.3
	1/3/20	7.05	9.3	2.6	1.457	22.0	1.08	198.6
	4/7/20	7.67	6.9	3.2	1.376	60.1	1.81	169.8
	7/9/20	7.71	14.4	0.0	1.166	9.5	0.52	179.2
	10/7/20	7.08	13.4	0.0	1.156	18.2	0.55	-85.3
PZ-06	10/8/19	7.08	12.3	0.0	1.658	55.1	2.1	253.2
	1/3/20	7.50	6.5	0.0	1.175	31.9	3.11	169.9
	4/7/20	7.91	6.4	1.0	1.024	19.7	1.54	167.6
	7/9/20	7.33	15.5	0.0	0.965	9.5	2.61	290.7
	10/8/20	7.43	14.8	0.0	0.894	9.27	3.20	-115.7
PZ-07	10/8/19	OB	OB	OB	OB	OB	OB	OB
	4/7/20	OB	OB	OB	OB	OB	OB	OB
	7/9/20	OB	OB	OB	OB	OB	OB	OB
	Abandoned 10/13/2020							
PZ-09R	10/3/19	6.98	13.5	5.0	1.393	352	2.8	325.0
	1/7/20	7.24	8.8	3.0	0.883	66.0	1.15	188.6
	4/1/20	7.78	6.5	3.2	0.789	19.1	0.72	233.0
	7/7/20	7.11	15.0	2.2	0.692	23.1	2.13	285.3
	10/5/20	6.98	12.6	1.8	0.917	16.4	0.08	-85.9
PZ-10	9/29/10	NS	NS	NS	NS	NS	NS	NS
	4/4/13	7.20	5.80	7.0	NA	NA	1.40	-103.0
	10/8/19	7.11	16.1	4.8	1.137	550	2.31	325.1
	1/3/20	7.16	8.2	2.2	1.693	70.1	1.60	164.5
	4/7/20	7.87	6.4	2.0	0.838	70.0	2.26	200.4
	7/7/20	8.25	15.8	4.4	1.383	25.5	1.73	215.1
	10/8/20	7.18	15.5	2.8	1.356	57.4	0.57	-132.4
MW-A	9/30/10	6.76	14.09	NA	NA	NA	0.43	-48.0
	4/5/13	7.30	5.80	4.0	NA	NA	1.70	173.0
	10/8/19	7.02	12.1	2.4	1.631	152	1.81	298.3
	1/3/20	7.38	7.4	0.0	0.688	36.5	5.46	233.3
	4/3/20	7.35	6.3	3.0	1.338	77.3	0.94	187.5
	7/13/20	6.98	12.4	0.0	0.286	98.3	1.96	286.1
	Abandoned 10/13/2020							

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MW-B	9/27/10	6.87	13.58	NA	NS	NS	0.98	19.6
	4/5/13	7.30	4.70	1.0	NS	NS	1.40	27.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	7.35	7.4	3.0	2.049	146.0	3.33	212.9
	4/8/20	7.96	5.7	2.8	2.835	120.0	2.41	242.5
	7/14/20	7.41	12.6	4.0	1.599	147.0	2.19	323.1
	Abandoned 10/13/2020							
MW-C	9/27/10	7.01	12.83	NA	NS	NS	1.28	-53.5
	4/5/13	7.30	6.90	2.0	NS	NS	1.20	-31.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	NS	NS	NS	NS	NS	NS	NS
	4/8/20	7.86	7.1	4.4	1.656	oo turbid for mete	1.61	224.9
	7/14/20	NS	NS	NS	NS	NS	NS	NS
	Abandoned 10/13/2020							
MW-D	9/27/10	6.71	13.82	NA	NS	NS	1.64	-87.6
	4/5/13	7.40	5.70	4.0	NS	NS	1.80	75.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	NS	NS	NS	NS	NS	NS	NS
	4/8/20	NS	NS	NS	NS	NS	NS	NS
	7/14/20	NS	NS	NS	NS	NS	NS	NS
	Not Located							
MW-E	9/30/10	7.16	12.57	NA	NS	NS	NA	NA
	4/5/13	7.50	7.50	0.0	NS	NS	1.10	-10.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	7.35	8.9	0.4	1.343	29.9	2.18	207.4
	4/8/20	7.84	7.4	0.0	1.280	401.0	1.54	202.0
	7/14/20	7.61	13.7	3.8	1.224	221.0	1.95	321.2
	Abandoned 10/13/2020							
MW-F	9/30/10	7.04	13.59	NA	NS	NS	2.57	85.4
	4/5/13	7.40	8.20	3.6	NS	NS	1.24	-60.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	7.63	9.9	0.0	1.574	oo turbid for mete	0.92	151.9
	4/8/20	7.97	6.6	2.6	1.496	oo turbid for mete	1.22	187.5
	7/13/20	7.14	14.5	0.8	0.738	17.6	2.24	298.2
	Abandoned 10/13/2020							
MW-G	9/30/10	6.85	14.32	NA	NS	NS	2.25	83.9
	4/5/13	7.20	7.30	0.0	NS	NS	3.00	-10.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	NS	NS	NS	NS	NS	NS	NS
	4/8/20	NS	NS	NS	NS	NS	NS	NS
	7/14/20	NS	NS	NS	NS	NS	NS	NS
	Abandoned 10/13/2020							

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Well ID	Date	In Situ Measurements						
		pH	Temperature (° C)	Ferrous Iron (mg/l)	Specific Conductance (mmhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Redox Potential (mV)
MW-H	9/28/10	7.05	13.13	NA	NS	NS	1.47	8.4
	4/5/13	7.30	7.30	4.0	NS	NS	1.60	-30.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	7.41	8.3	1.4	2.070	18.4	0.84	182.8
	4/8/20	7.82	6.4	3.4	1.970	oo turbid for mete	1.34	193.9
	7/14/20	7.44	14.8	3.0	1.714	109.0	1.85	314.4
	10/8/20	7.43	10.9	0.0	1.601	56.7	0.40	161.6
MW-I	9/28/10	7.08	15.07	NA	NS	NS	1.50	-52.4
	4/5/13	7.70	4.80	0.0	NS	NS	3.10	-40.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	NS	NS	NS	NS	NS	NS	NS
	4/8/20	NS	NS	NS	NS	NS	NS	NS
	7/14/20	NS	NS	NS	NS	NS	NS	NS
	Not Located							
MW-J	9/28/10	7.14	11.69	NA	NS	NS	2.16	1.1
	4/5/13	7.30	7.30	0.0	NS	NS	2.90	46.0
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	7.25	7.3	1.0	1.873	24.0	0.87	249.0
	4/8/20	7.95	7.5	2.6	1.682	oo turbid for mete	1.64	172.4
	7/13/20	7.04	16.2	2.2	1.527	192.0	1.74	322.0
	Abandoned 10/13/2020							
MW-K	9/28/10	7.03	16.82	NA	NS	NS	2.03	108.4
	4/5/13	NS	NS	NS	NS	NS	NS	NS
	10/8/19	NS	NS	NS	NS	NS	NS	NS
	1/10/20	NS	NS	NS	NS	NS	NS	NS
	4/8/20	NS	NS	NS	NS	NS	NS	NS
	7/14/20	NS	NS	NS	NS	NS	NS	NS
	Under Water							

Notes:
1. C = degrees Celsius
2. mg/l = milligrams per liter (equivalent to parts per million, ppm)
3. mS/cm = millisiemens per centimeter
4. mmhos/cm = millimhos/centimeter
5. NTU = Nephelometric Turbidity Unit
6. mV = millivolts
7. NA = Sample was not analyzed
8. NS = Well was not sampled (either due to obstruction, or not included in the program or could not be located.)
9. OB = Well was obstructed
10. NI = Well was not installed

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-5S							MW-7S							
Date:						9/27/10	4/4/13	10/9/19	1/3/20	3/31/20	7/7/20	10/8/20	9/28/10	4/4/13	10/9/19	DUP #4 10/9/19	1/3/20	3/31/20	7/7/20	10/9/20
BTEX																				
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	**0.9 J**	0.36 J	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	0.3 J	<0.82	< 0.26	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	1.8 J	1.7 J	< 0.72	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																				
Acenaphthene	µg/L	NS	NS	NS	NS	<0.51	<0.021	< 0.0094	< 0.0094	0.079	< 0.0094	< 0.0094	8.3	5	2.18	NT	0.5	0.56	1.39	2.64
Acenaphthylene	µg/L	NS	NS	NS	NS	<1	<0.02	< 0.0156	< 0.0156	< 0.0156	0.0228 J	< 0.0156	<8.2	0.17	0.067	NT	0.0194 J	0.0176 J	0.066	0.085
Anthracene	µg/L	NS	NS	3,000	600	<0.02	0.030 J	0.0192 J	< 0.015	< 0.015	0.0208 J	< 0.015	<0.022	0.138	0.136	NT	0.117	0.09	0.091	0.13
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.01	<0.025	< 0.0131	< 0.02	< 0.02	< 0.02	< 0.02	<0.011	<0.025	0.0256 J	NT	< 0.02	0.0226 J	< 0.02	0.096
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.01	<0.018	< 0.0167	< 0.0167	< 0.0167	0.0195 J	< 0.0167	<0.011	<0.018	< 0.0167	NT	< 0.0167	*0.0256 J*	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0081	<0.02	< 0.016	< 0.016	< 0.016	*0.0249 J*	< 0.016	<0.0086	<0.02	< 0.016	NT	< 0.016	*0.038 J*	< 0.016	*0.065*
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.061	<0.023	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142	<0.065	<0.023	< 0.0142	NT	< 0.0142	0.0291 J	< 0.0142	0.023 J
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0081	<0.027	< 0.0146	< 0.0146	< 0.0146	0.0188 J	< 0.0146	<0.0083	<0.027	< 0.0146	NT	< 0.0146	0.0267 J	< 0.0146	0.047
Chrysene	µg/L	NS	NS	0.2	0.02	<0.061	<0.018	< 0.0157	< 0.0157	< 0.0157	0.0182 J	< 0.0157	<0.065	<0.018	< 0.0157	NT	< 0.0157	< 0.0157	< 0.0157	*0.048 J*
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.02	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.022	<0.023	< 0.0173	NT	< 0.0173	0.0214 J	< 0.0173	0.0223 J
Fluoranthene	µg/L	NS	NS	400	80	<0.02	<0.026	< 0.0088	< 0.0088	< 0.0088	0.0142 J	< 0.0088	<0.022	<0.026	0.029	NT	0.0107 J	0.0108 J	0.0156 J	0.046
Fluorene	µg/L	NS	NS	400	80	<0.1	<0.02	< 0.0079	< 0.0079	0.02 J	< 0.0079	< 0.0079	1.5	0.83	0.43	NT	0.077	0.111	0.082	0.174
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.04	<0.027	< 0.0121	< 0.0121	< 0.0121	0.0132 J	< 0.0121	<0.043	<0.027	< 0.0121	NT	< 0.0121	0.0268 J	< 0.0121	0.0211 J
Naphthalene	µg/L	NS	NS	100	10	<1	0.025 J	0.086	0.047 J	0.042 J	< 0.03	< 0.03	1.6 J	0.43	0.112	NT	0.091 J	4.3	0.097 J	0.141
Phenanthrene	µg/L	NS	NS	NS	NS	<0.04	<0.018	< 0.0143	< 0.0143	< 0.0143	< 0.0143	< 0.0143	<0.043	0.034 J	0.0278 J	NT	0.0177 J	0.0262 J	0.0173 J	0.042 J
Pyrene	µg/L	NS	NS	250	50	<0.1	<0.025	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	<0.11	<0.025	0.0236 J	NT	< 0.0121	< 0.0121	0.0143 J	0.047

Notes:

1. EPA ROD ES = Enforcement Standard within the EPA's 1990 Record of Decision for Moss America
2. EPA ROD PAL = Preventive Action Limit within the EPA's 1990 Record of Decision for Moss America
3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-7S-W / MW-7S-WR						MW-9S							MW-27S		
Date:						4/5/13	10/4/19	1/3/20	3/31/20	7/7/20	10/6/20	9/30/10	4/4/13	10/2/19	12/31/19	4/3/20	7/14/20	10/7/20	9/27/10	4/4/13	
BTEX																					
Benzene	µg/L	0.67	0.067	5	0.5	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	1.56 J	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	
Toluene	µg/L	343.0	68.6	1,000	200	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	
PAHs																					
Acenaphthene	µg/L	NS	NS	NS	NS	291	3.30	18.3	13.2	9.70	0.069	<0.52	0.028 J	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	<0.52	0.113	
Acenaphthylene	µg/L	NS	NS	NS	NS	2.45 J	0.106	0.40	0.219	0.264	< 0.0156	<1	<0.02	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	<1	0.022 J	
Anthracene	µg/L	NS	NS	3,000	600	183	0.223	0.176 J	0.115	0.081 J	0.072	<0.021	0.048 J	0.0198 J	0.0255 J	0.0273 J	0.03 J	0.022 J	<0.021	0.14	
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<2.5	0.0255 J	0.137 J	0.145	0.06 J	0.056 J	<0.01	0.025	< 0.0131	< 0.02	< 0.02	0.0242 J	< 0.02	<0.01	<0.025	
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<1.8	< 0.0167	< 0.0835	*0.047 J*	< 0.0334	< 0.0167	<0.01	<0.018	< 0.0167	< 0.0167	< 0.0167	0.0194 J	< 0.0167	<0.01	<0.018	
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<2	< 0.016	< 0.08	*0.071 J*	< 0.032	*0.055*	<0.0084	<0.02	< 0.016	< 0.016	< 0.016	*0.0273 J*	< 0.016	<0.0084	<0.02	
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<2.3	< 0.0142	< 0.071	< 0.0284	< 0.0284	0.033 J	<0.063	<0.023	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142	<0.063	<0.023	
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<2.7	< 0.0146	< 0.073	0.032 J	< 0.0292	0.04 J	<0.0084	<0.027	< 0.0146	< 0.0146	< 0.0146	0.0284 J	< 0.0146	<0.0084	<0.027	
Chrysene	µg/L	NS	NS	0.2	0.02	<1.8	0.0163 J	< 0.0785	*0.102*	*0.046 J*	*0.05*	<0.063	<0.018	< 0.0157	< 0.0157	< 0.0157	*0.0243 J*	< 0.0157	<0.063	<0.018	
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<2.3	< 0.0173	< 0.0865	< 0.0346	< 0.0346	0.0205 J	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.021	<0.023	
Fluoranthene	µg/L	NS	NS	400	80	14.4	0.76	1.74	1.84	1.18	0.163	<0.021	<0.026	< 0.0088	< 0.0088	< 0.0088	< 0.0088	0.0128 J	<0.021	0.037 J	
Fluorene	µg/L	NS	NS	400	80	*162*	0.014 J	2.79	1.62	1.01	0.0116 J	<0.1	0.029 J	< 0.0079	0.0083 J	< 0.0079	< 0.0079	0.0093 J	<0.1	0.075	
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<2.7	< 0.0121	< 0.0605	< 0.0242	< 0.0242	0.029 J	<0.042	<0.027	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	<0.042	<0.027	
Naphthalene	µg/L	NS	NS	100	10	*64*	< 0.026	< 0.15	1.63	< 0.06	< 0.03	<1	0.38	< 0.026	0.037 J	0.036 J	< 0.03	< 0.03	<1	2.34	
Phenanthrene	µg/L	NS	NS	NS	NS	177	0.0307 J	< 0.0715	0.099	0.047 J	0.034 J	<0.042	0.044 J	< 0.0143	< 0.0143	< 0.0143	< 0.0143	< 0.0143	0.073 J	0.106	
Pyrene	µg/L	NS	NS	250	50	7.5 J	0.52	1.07	1.07	0.50	0.177	<0.1	<0.025	< 0.0121	< 0.0121	< 0.0121	< 0.0121	0.0146 J	<0.1	0.029 J	

obstructed; abandoned October 2020

Notes:

1. EPA ROD ES = Enforcement Standard within the EPA's 1990 Record of Decision for Moss America
2. EPA ROD PAL = Preventive Action Limit within the EPA's 1990 Record of Decision for Moss America
3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-30S							MW-31S / MW-31SR					
Date:						9/28/10	4/4/13	10/9/19	1/3/20	3/31/20	7/7/20	10/8/20	9/29/10	10/3/19	12/31/19	4/7/20	7/9/20	10/9/20
BTEX																		
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	< 0.19	< 0.19	< 0.26	< 0.26	0.49 J
PAHs																		
Acenaphthene	µg/L	NS	NS	NS	NS	<0.53	<0.021	< 0.0094	< 0.0094	0.035	0.0107 J	< 0.0094	<0.52	< 0.0094	0.0122 J	< 0.0094	0.0116 J	< 0.0094
Acenaphthylene	µg/L	NS	NS	NS	NS	<1.1	<0.02	< 0.0156	< 0.0156	< 0.0156	0.0228 J	< 0.0156	<1	< 0.0156	0.017 J	< 0.0156	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	<0.021	0.113	0.134	0.174	0.032 J	0.152	0.147	<0.021	< 0.015	0.0232 J	< 0.015	< 0.015	< 0.015
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.011	<0.025	0.0174 J	0.0233 J	0.0229 J	0.0207 J	< 0.02	<0.01	0.0199 J	0.0248 J	< 0.02	< 0.02	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.011	<0.018	< 0.0167	< 0.0167	0.0188 J	*0.026 J*	< 0.0167	<0.01	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0084	<0.02	< 0.016	*0.0231 J*	*0.0242 J*	*0.035 J*	< 0.016	<0.0084	< 0.016	0.0186 J	< 0.016	< 0.016	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.063	<0.023	< 0.0142	< 0.0142	0.0164 J	< 0.0142	< 0.0142	<0.063	< 0.0142	0.0154 J	< 0.0142	< 0.0142	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0084	<0.027	< 0.0146	< 0.0146	0.0193 J	0.024 J	< 0.0146	<0.0084	< 0.0146	0.0184 J	< 0.0146	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	<0.063	<0.018	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	<0.063	< 0.0157	0.017 J	< 0.0157	< 0.0157	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.021	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	<0.021	<0.026	0.01 J	0.0196 J	< 0.0088	0.0184 J	0.0145 J	<0.021	< 0.0088	0.0159 J	< 0.0088	< 0.0088	< 0.0088
Fluorene	µg/L	NS	NS	400	80	<0.11	<0.02	0.0144 J	< 0.0079	0.0122 J	< 0.0079	< 0.0079	<0.1	< 0.0079	0.0149 J	< 0.0079	< 0.0079	< 0.0079
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.042	<0.027	< 0.0121	< 0.0121	0.0161 J	0.0163 J	< 0.0121	<0.042	< 0.0121	0.0139 J	< 0.0121	< 0.0121	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	<1.1	0.024 J	0.047 J	0.051 J	0.042 J	< 0.03	< 0.03	<1	< 0.026	0.049 J	< 0.03	< 0.03	< 0.03
Phenanthrene	µg/L	NS	NS	NS	NS	0.046 J	0.029 J	< 0.0143	0.0199 J	0.097	0.015 J	0.0167 J	<0.042	0.0177 J	0.0265 J	< 0.0143	< 0.0143	< 0.0143
Pyrene	µg/L	NS	NS	250	50	<0.11	<0.025	0.0158 J	0.0267 J	< 0.0121	0.0148 J	0.0155 J	<0.1	< 0.0121	0.0157 J	< 0.0121	< 0.0121	< 0.0121

Notes:

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2. EPA ROD PAL = Preventive Action Limit within the EPA's 1990 Record of Decision for Moss America
3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-32S / MW-32SR									MW-33S						
Date:						9/27/10	4/4/13	10/4/19	12/31/19	3/31/20	DUP #1 3/31/20	7/7/20	DUP #1 7/7/20	10/6/20	9/28/10	4/4/13	10/4/19	12/31/19	3/31/20	7/8/20	10/8/20
BTEX																					
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.48	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	0.5 J	<0.82	< 0.26	< 0.26	< 0.55	< 0.32	0.34 J
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48	< 1.48	3.1	<2.41	< 0.72	< 0.72	3.71 J	< 1.48	2.46 J
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	0.3 J	<0.8	< 0.19	< 0.19	< 0.62	< 0.26	< 0.26
PAHs																					
Acenaphthene	µg/L	NS	NS	NS	NS	<054	<0.021	0.67	0.50	0.029 J	0.089	0.016 J	0.0152 J	0.175	100	0.66	0.12	0.093	113	4.4	107
Acenaphthylene	µg/L	NS	NS	NS	NS	<1.1	<0.02	< 0.0468	0.0195 J	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	<1	<0.02	< 0.0156	0.0183 J	1.07 J	0.126 J	1.12 J
Anthracene	µg/L	NS	NS	3,000	600	<0.022	0.057 J	0.136 J	0.057	0.055	0.055	0.058	0.074	0.071	0.62	0.132	0.158	0.127	2.22 J	0.212 J	1.99 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.011	<0.025	< 0.0393	0.0279 J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.01	<0.025	< 0.0131	0.0278 J	< 1	< 0.10	< 1
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.011	<0.018	< 0.0501	*0.0224 J*	< 0.0167	*0.0224 J*	< 0.0167	0.0167 J	< 0.0167	<0.01	<0.018	< 0.0167	< 0.0167	< 0.835	< 0.0835	< 0.835
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0086	<0.02	< 0.048	*0.0268 J*	0.0161 J	*0.0284 J*	< 0.016	*0.0228 J*	< 0.016	<0.0081	<0.02	< 0.016	*0.0241 J*	< 0.8	< 0.08	< 0.8
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.065	<0.023	< 0.0426	0.027 J	< 0.0142	0.0284 J	< 0.0142	< 0.0142	< 0.0142	<0.061	<0.023	< 0.0142	0.0183 J	< 0.71	< 0.071	< 0.71
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0086	<0.027	< 0.0438	0.0263 J	< 0.0146	0.0233 J	< 0.0146	< 0.0146	< 0.0146	<0.0081	<0.027	< 0.0146	0.0181 J	< 0.73	< 0.073	< 0.73
Chrysene	µg/L	NS	NS	0.2	0.02	<0.065	<0.018	< 0.0471	*0.0234 J*	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	<0.061	<0.018	< 0.0157	0.0193 J	< 0.785	< 0.0785	< 0.785
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.022	<0.023	< 0.0519	0.0229 J	< 0.0173	0.0248 J	< 0.0173	< 0.0173	< 0.0173	<0.02	<0.023	< 0.0173	< 0.0173	< 0.865	< 0.0865	< 0.865
Fluoranthene	µg/L	NS	NS	400	80	<0.022	<0.026	0.096	0.04	0.032	0.0254 J	0.0131 J	0.0219 J	0.0187 J	0.028 J	<0.026	< 0.0088	0.0173 J	< 0.44	< 0.044	< 0.44
Fluorene	µg/L	NS	NS	400	80	<0.11	<0.02	< 0.0237	0.0224 J	0.013 J	0.0275	0.0163 J	0.0163 J	0.052	49	0.251	0.045	0.044	55	1.51	53
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.043	<0.027	< 0.0363	0.0246 J	< 0.0121	0.0263	< 0.0121	< 0.0121	< 0.0121	<0.04	<0.027	< 0.0121	0.0171 J	< 0.605	< 0.0605	< 0.605
Naphthalene	µg/L	NS	NS	100	10	<1.1	0.249	< 0.078	0.049 J	< 0.03	0.72	< 0.03	< 0.03	< 0.03	*100*	0.201	0.23	0.175	**226**	*17.8*	**199**
Phenanthrene	µg/L	NS	NS	NS	NS	<0.043	0.022 J	0.046 J	0.02 J	0.0144 J	0.0157 J	< 0.0143	< 0.0143	< 0.0143	15	0.08	0.0201 J	0.033 J	22.6	0.50	14.3
Pyrene	µg/L	NS	NS	250	50	<0.11	<0.025	0.054 J	0.0267 J	0.0195 J	0.0163 J	< 0.0121	0.0146 J	0.0141 J	<0.1	<0.025	< 0.0121	0.0146 J	< 0.605	< 0.0605	< 0.605

Notes:

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5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-34S / MW-34SR								MW-34S-N			
Date:						9/28/10	4/4/13	10/9/19	DUP #3 10/9/19	1/3/20	3/31/20	7/7/20	10/6/20	4/5/13	10/9/19	1/8/20	
BTEX																	
Benzene	µg/L	0.67	0.067	5	0.5	**6.2**	**7**	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.27	< 0.22	< 0.22	
Ethylbenzene	µg/L	1360.0	272.0	700	140	26	28.4	< 0.26	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.82	< 0.26	< 0.26	
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	49	49.2	< 0.72	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<2.41	< 0.72	< 0.72	
Toluene	µg/L	343.0	68.6	1,000	200	1.1	1.39 J	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.8	< 0.19	< 0.19	
PAHs																	
Acenaphthene	µg/L	NS	NS	NS	NS	2100	410	2.39	NT	5.00	5.1	0.82	4.8	0.059 J	0.0137 J	0.271	
Acenaphthylene	µg/L	NS	NS	NS	NS	<200	<20	0.048 J	NT	0.057	0.042 J	0.035 J	0.036 J	<0.02	< 0.0156	< 0.0156	
Anthracene	µg/L	NS	NS	3,000	600	450	88	0.271	NT	0.273	0.272	0.084	0.41	0.023 J	0.0163 J	< 0.015	
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	310	54 J	0.033 J	NT	0.025 J	0.0246 J	< 0.02	0.034 J	<0.025	0.0243 J	0.0226 J	
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	**120**	<18	< 0.0167	NT	< 0.0167	< 0.0167	< 0.0167	< 0.0167	<0.018	< 0.0167	< 0.0167	
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	**100**	**26.1 J**	< 0.016	NT	< 0.016	< 0.016	< 0.016	*0.0226 J*	<0.02	*0.0231 J*	< 0.016	
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<61	<23	< 0.0142	NT	< 0.0142	< 0.0142	< 0.0142	< 0.0142	<0.023	< 0.0142	< 0.0142	
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	59	<27	< 0.0146	NT	< 0.0146	< 0.0146	< 0.0146	< 0.0146	<0.027	< 0.0146	< 0.0146	
Chrysene	µg/L	NS	NS	0.2	0.02	**340**	**50 J**	*0.0244 J*	NT	< 0.0157	< 0.0157	< 0.0157	*0.0229 J*	<0.018	< 0.0157	< 0.0157	
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<23	<23	< 0.0173	NT	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.023	< 0.0173	< 0.0173	
Fluoranthene	µg/L	NS	NS	400	80	**1800**	*320*	0.44	NT	0.46	0.39	0.074	0.227	<0.026	0.028 J	0.0173 J	
Fluorene	µg/L	NS	NS	400	80	**1700**	*330*	1.56	NT	0.74	1.59	0.41	3.4	0.034 J	< 0.0079	0.089	
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<49	<27	< 0.0121	NT	< 0.0121	< 0.0121	< 0.0121	< 0.0121	<0.027	< 0.0121	< 0.0121	
Naphthalene	µg/L	NS	NS	100	10	**11000**	**4100**	0.304	NT	0.075 J	1.9	< 0.03	1.01	0.053 J	0.0308 J	3.60	
Phenanthrene	µg/L	NS	NS	NS	NS	4600	800	0.55	NT	0.033 J	0.081	0.08	2.8	0.057 J	0.0171 J	0.037 J	
Pyrene	µg/L	NS	NS	250	50	**1400**	*222*	0.267	NT	0.267	0.216	0.044	0.123	<0.025	0.0231 J	0.017 J	

obstructed; abandoned October 2020

Notes:

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   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-35S						MW-37S						
Date:						9/28/10	10/7/19	1/8/20	4/2/20	7/9/20	10/8/20	9/29/10	4/4/13	10/7/19	12/31/19	4/7/20	7/10/20	10/8/20
BTEX																		
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																		
Acenaphthene	µg/L	NS	NS	NS	NS	0.6 J	2.68	8.3	27.1	21.0	3.7	<0.52	0.025 J	0.0259 J	0.036	< 0.0094	< 0.0094	< 0.0094
Acenaphthylene	µg/L	NS	NS	NS	NS	<1.1	0.034 J	0.068	0.159 J	0.109 J	0.051	<1	<0.02	< 0.0156	0.042 J	< 0.0156	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	<0.022	0.16	0.078	< 0.15	0.157 J	0.169	<0.021	<0.02	0.0249 J	0.053	< 0.015	0.0185 J	< 0.015
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.017 J	0.087	0.067	< 0.2	< 0.1	0.048 J	<0.01	<0.025	0.0168 J	0.047 J	0.042 J	< 0.02	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.011	*0.0241 J*	*0.032 J*	< 0.167	< 0.0835	< 0.0167	*0.027 J*	<0.018	< 0.0167	*0.032 J*	0.0176 J	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0089	*0.048 J*	*0.042 J*	< 0.16	< 0.08	*0.0209 J*	0.014 J	<0.02	< 0.016	*0.036 J*	*0.0205 J*	< 0.016	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.067	0.0164 J	0.0254 J	< 0.142	< 0.071	< 0.0142	0.08 J	<0.023	< 0.0142	0.0296 J	0.0187 J	< 0.0142	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0089	0.0178 J	0.0295 J	< 0.146	< 0.073	< 0.0146	0.01 J	<0.027	< 0.0146	0.038 J	0.0191 J	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	<0.067	*0.055*	*0.056*	< 0.157	< 0.0785	*0.0235 J*	<0.062	<0.018	< 0.0157	*0.042 J*	*0.0255 J*	< 0.0157	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.022	< 0.0173	0.0193 J	< 0.173	< 0.0865	< 0.0173	<0.021	<0.023	< 0.0173	0.032 J	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.5	0.62	0.33	0.296	0.34	0.4	<0.021	<0.026	< 0.0088	0.041	0.015 J	< 0.0088	< 0.0088
Fluorene	µg/L	NS	NS	400	80	0.12 J	0.279	0.161	0.34	0.184	0.234	<0.1	0.028 J	0.0146 J	0.046	< 0.0079	< 0.0079	< 0.0079
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.045	< 0.0121	0.025 J	< 0.121	< 0.0605	< 0.0121	<0.041	<0.027	< 0.0121	0.0294 J	0.0172 J	< 0.0121	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	<1.1	0.219	0.44	< 0.3	< 0.15	0.059 J	<1	0.36	0.286	0.075 J	< 0.03	< 0.03	0.033 J
Phenanthrene	µg/L	NS	NS	NS	NS	0.053 J	0.0232 J	0.0263 J	< 0.143	< 0.0715	0.0242 J	<0.041	0.037 J	< 0.0143	0.054	< 0.0143	< 0.0143	< 0.0143
Pyrene	µg/L	NS	NS	250	50	0.36 J	0.42	0.231	0.212 J	0.227	0.264	<0.1	<0.025	< 0.0121	0.038 J	0.0163 J	< 0.0121	< 0.0121

Notes:

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   - **BOLD** = Concentration exceeds EPA ROD ES
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Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-38S							MW-39S						
Date:						9/28/10	4/4/13	10/9/19	1/3/20	4/2/20	7/8/20	10/9/20	9/28/10	4/4/13	10/9/19	1/3/20	3/31/20	7/7/20	10/6/20
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	**1.9**	**0.96**	< 0.22	< 0.22	< 0.33	< 0.33	*0.36 J*	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	0.9 J	1.4 J	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	0.9 J	1.41 J	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	4	4.2	0.70	0.257	0.76	1.35	3.2	3.3	5.8	13.9	19.7	42	8.70	35
Acenaphthylene	µg/L	NS	NS	NS	NS	<3.2	0.153	0.0242 J	< 0.0156	0.033 J	0.057	0.104	<13	0.127	0.062 J	0.163 J	< 0.312	0.07	0.16 J
Anthracene	µg/L	NS	NS	3,000	600	<0.022	0.263	0.10	0.099	0.0186 J	0.107	0.141	0.13	0.136	0.101	0.101 J	< 0.3	0.084	< 0.15
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.011	0.039 J	0.0166 J	< 0.02	< 0.02	< 0.02	0.0213 J	<0.011	0.069 J	0.036 J	0.139 J	< 0.4	0.049 J	< 0.2
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.011	*0.032 J*	< 0.0167	< 0.0167	< 0.0167	0.0186 J	< 0.0167	<0.044	*0.027 J*	< 0.0334	< 0.0835	< 0.334	*0.036 J*	< 0.167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0089	*0.079*	< 0.016	< 0.016	< 0.016	*0.0235 J*	< 0.016	<0.0085	*0.057 J*	< 0.032	< 0.08	< 0.32	*0.058*	< 0.16
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.067	0.077	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142	<0.063	<0.023	< 0.0284	< 0.071	< 0.284	< 0.0142	< 0.142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0089	<0.027	< 0.0146	< 0.0146	< 0.0146	0.0197 J	< 0.0146	<0.0085	<0.027	< 0.0292	< 0.073	< 0.292	0.021 J	< 0.146
Chrysene	µg/L	NS	NS	0.2	0.02	<0.067	*0.052 J*	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	<0.063	*0.054 J*	< 0.0314	< 0.0785	< 0.314	*0.042 J*	< 0.157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.022	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.021	<0.023	< 0.0346	< 0.0865	< 0.346	< 0.0173	< 0.173
Fluoranthene	µg/L	NS	NS	400	80	<0.22	0.103	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0088	0.19	0.32	0.064	0.38	0.274 J	0.117	0.121 J
Fluorene	µg/L	NS	NS	400	80	<0.11	0.152	0.017 J	0.0153 J	0.025 J	0.038	0.019 J	1.1	0.73	0.70	0.98	3.13	0.33	1.83
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.044	0.04 J	< 0.0121	< 0.0121	< 0.0121	0.0145 J	< 0.0121	<0.042	<0.027	< 0.0242	< 0.0605	< 0.242	0.0141 J	< 0.121
Naphthalene	µg/L	NS	NS	100	10	*67*	8.1	0.04 J	0.159	0.079 J	0.069 J	0.231	<1.1	0.211	0.103 J	< 0.15	1.18 J	0.033 J	< 0.3
Phenanthrene	µg/L	NS	NS	NS	NS	<0.044	0.15	0.0169 J	0.0165 J	0.094	0.0182 J	0.0293 J	0.056 J	0.252	< 0.0286	< 0.0715	< 0.286	0.02 J	< 0.143
Pyrene	µg/L	NS	NS	250	50	<0.11	0.092	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	0.15 J	0.216	0.046 J	0.282	< 0.242	0.09	< 0.121

Notes:

1. EPA ROD ES = Enforcement Standard within the EPA's 1990 Record of Decision for Moss America
2. EPA ROD PAL = Preventive Action Limit within the EPA's 1990 Record of Decision for Moss America
3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG1-1 / TG1-1R									TG1-2				
Date:						9/29/10	4/3/13	10/4/19	DUP #1 10/4/19	1/7/20	4/1/20	DUP #3 4/1/20	7/8/20	10/6/20	10/4/19	1/7/20	3/31/20	7/8/20	10/6/20
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	*0.3 J*	<0.27	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	30	18.4	< 0.26	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	55	31.3	< 0.72	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.26	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	90000	262	0.167	NT	1.10	1.18	1.25	0.37	0.52	12.1	17.4	16.5	14.6	26.2
Acenaphthylene	µg/L	NS	NS	NS	NS	4000 J	<10	< 0.0156	NT	0.0192 J	0.0189 J	0.0181 J	0.0209 J	< 0.0156	0.065 J	0.122 J	0.094 J	< 0.078	0.194 J
Anthracene	µg/L	NS	NS	3,000	600	**20,000**	23.6 J	0.0312 J	NT	0.09	0.149	0.161	0.076	0.124	0.229	0.176 J	0.208 J	0.223 J	0.301
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	14000	<12.5	0.0198 J	NT	0.0248 J	0.038 J	0.043 J	< 0.02	0.0205 J	0.077 J	0.159 J	0.124 J	< 0.1	0.129 J
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	**7300**	<9	< 0.0167	NT	< 0.0167	< 0.0167	*0.0213 J*	< 0.0167	< 0.0167	< 0.0334	< 0.0835	< 0.0835	< 0.0835	< 0.0835
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	**4900**	<10	*0.0213 J*	NT	< 0.016	0.018 J	*0.032 J*	< 0.016	< 0.016	*0.035 J*	< 0.08	< 0.08	< 0.08	< 0.08
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	3000	<11.5	0.0201 J	NT	< 0.0142	< 0.0142	0.0219 J	< 0.0142	< 0.0142	< 0.0284	< 0.071	< 0.071	< 0.071	< 0.071
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	2900	<13.5	0.0175 J	NT	< 0.0146	< 0.0146	0.0205 J	< 0.0146	< 0.0146	< 0.0292	< 0.073	< 0.073	< 0.073	< 0.073
Chrysene	µg/L	NS	NS	0.2	0.02	**14000**	<9	< 0.0157	NT	< 0.0157	*0.0283 J*	*0.032 J*	< 0.0157	< 0.0157	*0.052 J*	< 0.0785	< 0.0785	< 0.0785	*0.089 J*
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	1200	<11.5	< 0.0173	NT	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0346	< 0.0865	< 0.0865	< 0.0865	< 0.0865
Fluoranthene	µg/L	NS	NS	400	80	**82000**	28.1 J	0.087	NT	0.34	0.55	0.54	0.185	0.42	0.87	0.98	0.84	0.71	1.1
Fluorene	µg/L	NS	NS	400	80	**75000**	*135*	0.0214 J	NT	0.0233 J	0.113	0.125	0.0309	0.054	2.31	3.05	3.2	0.89	4.4
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	2600	<13.5	0.0197 J	NT	< 0.0121	< 0.0121	0.0201 J	< 0.0121	< 0.0121	< 0.0242	< 0.0605	< 0.0605	< 0.0605	< 0.0605
Naphthalene	µg/L	NS	NS	100	10	**110000**	**1950**	< 0.026	NT	< 0.03	0.111	0.107	< 0.03	< 0.03	< 0.052	< 0.15	0.34 J	< 0.15	< 0.15
Phenanthrene	µg/L	NS	NS	NS	NS	200000	113	< 0.0143	NT	0.039 J	0.157	0.169	< 0.0143	0.065	0.097	0.124 J	0.106 J	< 0.0715	0.084 J
Pyrene	µg/L	NS	NS	250	50	**57000**	17.7 J	0.102	NT	0.213	0.33	0.33	0.12	0.253	0.52	0.59	0.5	0.289	0.68

Notes:

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3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG1-3							TG2-1						
Date:						9/29/10	4/3/13	10/4/19	1/8/20	3/31/20	7/8/20	10/6/20	9/29/10	4/3/13	10/3/19	1/7/20	4/1/20	7/8/20	
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	abandoned July 2020
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	2.9	1.77	1.16	1.99	2.32	1.93	2.21	<0.58	<0.021	< 0.0094	< 0.0094	< 0.0094	< 0.0094	
Acenaphthylene	µg/L	NS	NS	NS	NS	<1	<0.02	< 0.0156	< 0.0156	< 0.0156	< 0.0156	0.0178 J	<1.2	<0.02	< 0.0156	< 0.0156	< 0.0156	< 0.0156	
Anthracene	µg/L	NS	NS	3,000	600	0.12	0.113	0.063	0.0178 J	0.0214 J	0.062	0.074	<0.023	0.035 J	0.022 J	< 0.015	0.0182 J	0.0163 J	
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.01	0.025 J	0.0154 J	< 0.02	0.0208 J	< 0.02	< 0.02	<0.012	<0.025	< 0.0131	< 0.02	0.0211 J	< 0.02	
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.01	<0.018	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	<0.012	<0.018	< 0.0167	< 0.0167	< 0.0167	< 0.0167	
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0083	<0.02	< 0.016	< 0.016	0.0184 J	< 0.016	< 0.016	<0.0093	<0.02	< 0.016	< 0.016	0.0174 J	< 0.016	
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.062	<0.023	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142	<0.069	<0.023	< 0.0142	< 0.0142	< 0.0142	< 0.0142	
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0083	<0.027	< 0.0146	< 0.0146	0.0154 J	< 0.0146	< 0.0146	<0.0093	<0.027	< 0.0146	< 0.0146	< 0.0146	< 0.0146	
Chrysene	µg/L	NS	NS	0.2	0.02	<0.062	<0.018	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	<0.069	<0.018	< 0.0157	< 0.0157	< 0.0157	< 0.0157	
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.023	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	
Fluoranthene	µg/L	NS	NS	400	80	27	0.155	0.097	0.111	0.075	0.073	0.081	<0.023	<0.026	< 0.0088	< 0.0088	< 0.0088	< 0.0088	
Fluorene	µg/L	NS	NS	400	80	1.4	0.259	0.051	0.189	0.117	0.111	0.145	<0.12	<0.02	< 0.0079	< 0.0079	< 0.0079	< 0.0079	
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.041	<0.027	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	<0.046	<0.027	< 0.0121	< 0.0121	< 0.0121	< 0.0121	
Naphthalene	µg/L	NS	NS	100	10	<1	0.024 J	< 0.026	0.066 J	< 0.03	< 0.03	< 0.03	<1.2	<0.023	< 0.026	< 0.03	0.05 J	< 0.03	
Phenanthrene	µg/L	NS	NS	NS	NS	0.59	0.035 J	< 0.0143	0.045 J	0.063	< 0.0143	0.018 J	<0.046	<0.018	< 0.0143	< 0.0143	< 0.0143	< 0.0143	
Pyrene	µg/L	NS	NS	250	50	0.16 J	0.104	0.058	0.057	0.039	0.038 J	0.053	<0.12	<0.025	< 0.0121	< 0.0121	< 0.0121	< 0.0121	

Notes:

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5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG2-2							TG2-3					
Date:						10/3/19	1/7/20	DUP #4 1/7/20	4/1/20	7/8/20	10/6/20	DUP #1 10/6/20	9/29/10	10/3/19	1/7/20	4/1/20	7/8/20	10/6/20
BTEX																		
Benzene	µg/L	0.67	0.067	5	0.5	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33	<0.2	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	< 0.26	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32	<0.2	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	< 0.72	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48	<0.6	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.26	<0.2	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																		
Acenaphthene	µg/L	NS	NS	NS	NS	0.047	0.067	NT	0.085	0.043	0.094	0.102	<0.55	< 0.0094	< 0.0094	< 0.0094	< 0.0094	0.0097 J
Acenaphthylene	µg/L	NS	NS	NS	NS	0.097	0.061	NT	0.224	0.0189 J	< 0.0156	0.05	<1.1	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	0.285	0.13	NT	0.59	0.069	0.075	0.16	<0.022	0.032 J	0.0211 J	0.0245 J	0.046 J	0.033 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.115	0.071	NT	0.34	< 0.02	< 0.02	0.076	<0.011	0.0205 J	< 0.02	0.028 J	< 0.02	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	*0.114*	*0.069*	NT	**0.41**	0.0178 J	< 0.0167	*0.117*	<0.011	< 0.0167	< 0.0167	0.0171 J	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	**0.315**	*0.169*	NT	**0.93**	*0.04 J*	*0.0212 J*	*0.178*	<0.0088	*0.0273 J*	< 0.016	*0.0255 J*	< 0.016	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	0.225	0.13	NT	0.61	0.032 J	< 0.0142	0.115	<0.066	< 0.0142	< 0.0142	0.0181 J	< 0.0142	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	0.08	0.051	NT	0.238	0.017 J	< 0.0146	0.049	<0.0088	0.0207 J	< 0.0146	0.0148 J	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	*0.137*	*0.093*	NT	**0.4**	*0.0222 J*	< 0.0157	*0.085*	<0.066	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	0.039 J	< 0.0173	NT	0.106	< 0.0173	< 0.0173	0.0311 J	<0.022	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.279	0.183	NT	0.74	0.05	0.044	0.205	0.026 J	0.0177 J	0.0175 J	0.0179 J	< 0.0088	0.0192 J
Fluorene	µg/L	NS	NS	400	80	0.0263	0.0192 J	NT	0.046	0.009 J	0.0177 J	0.033	<0.11	< 0.0079	< 0.0079	0.01 J	< 0.0079	< 0.0079
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	0.138	0.085	NT	0.43	0.0179 J	< 0.0121	0.073	<0.044	< 0.0121	< 0.0121	0.0143 J	< 0.0121	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	< 0.026	< 0.03	NT	0.054 J	< 0.03	< 0.03	< 0.03	<1.1	< 0.026	< 0.03	0.074 J	< 0.03	< 0.03
Phenanthrene	µg/L	NS	NS	NS	NS	0.069	0.043 J	NT	0.188	0.0148 J	< 0.0143	0.082	<0.044	< 0.0143	< 0.0143	< 0.0143	< 0.0143	< 0.0143
Pyrene	µg/L	NS	NS	250	50	0.262	0.176	NT	0.7	0.046	0.041	0.195	<0.11	0.0156 J	0.0145 J	0.0138 J	< 0.0121	0.0161 J

Notes:

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3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG3-1								TG3-2				
Date:						9/29/10	4/3/13	10/3/19	1/7/20	4/2/20	7/9/20	10/7/20	DUP #2 10/7/20	10/3/19	1/7/20	4/2/20	7/9/20	10/7/20
BTEX																		
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.26	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																		
Acenaphthene	µg/L	NS	NS	NS	NS	<0.54	0.099	0.189	0.167	0.146	0.164	0.291	0.244	0.087	0.127	0.114	0.163	0.188
Acenaphthylene	µg/L	NS	NS	NS	NS	<1.1	0.056 J	< 0.0156	0.0223 J	< 0.0156	0.063	0.0176 J	0.0161 J	0.0252 J	0.0234 J	0.0221 J	< 0.0156	0.0164 J
Anthracene	µg/L	NS	NS	3,000	600	<0.022	0.189	0.106	0.072	0.094	0.205	0.111	0.132	0.116	0.072	0.102	0.082	0.083
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.011	0.076 J	0.032 J	0.0296 J	0.0208 J	0.04 J	0.0205 J	0.0232 J	0.04 J	0.034 J	0.035 J	< 0.02	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.011	*0.04 J*	< 0.0167	< 0.0167	< 0.0167	*0.024 J*	< 0.0167	< 0.0167	*0.0246 J*	0.0198 J	*0.0252 J*	< 0.0167	*0.0202 J*
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0087	*0.073*	*0.0228 J*	< 0.016	< 0.016	*0.043 J*	< 0.016	*0.0212 J*	*0.07*	*0.038 J*	*0.059*	< 0.016	*0.0315 J*
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.065	0.065 J	< 0.0142	0.0152 J	< 0.0142	0.042 J	< 0.0142	0.0179 J	0.049	0.033 J	0.038 J	< 0.0142	0.017 J
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0087	0.029 J	0.0169 J	< 0.0146	< 0.0146	< 0.0146	< 0.0146	0.0164 J	0.0261 J	0.0175 J	0.0181 J	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	<0.065	*0.061*	*0.0236 J*	< 0.0157	< 0.0157	*0.043 J*	< 0.0157	< 0.0157	*0.034 J*	*0.0213 J*	*0.0294 J*	< 0.0157	0.0177 J
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.022	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.062 J	0.244	0.05	0.057	0.035	0.158	0.045	0.044	0.077	0.059	0.073	0.0259 J	0.052
Fluorene	µg/L	NS	NS	400	80	0.12 J	0.068	0.026	0.056	0.0211 J	0.033	0.061	0.049	0.0139 J	0.016 J	0.0091 J	0.0112 J	0.0149 J
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.044	0.044 J	< 0.0121	< 0.0121	< 0.0121	0.0249 J	< 0.0121	0.0157 J	0.031 J	0.0236 J	0.0269 J	0.0145 J	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	<1.1	0.024 J	< 0.026	< 0.03	0.032 J	< 0.03	< 0.03	< 0.03	< 0.026	< 0.03	0.036 J	< 0.03	< 0.03
Phenanthrene	µg/L	NS	NS	NS	NS	<0.044	0.069	0.0298 J	0.0209 J	0.0186 J	0.035 J	0.017 J	< 0.0143	0.0246 J	0.0239 J	0.0237 J	< 0.0143	0.0166 J
Pyrene	µg/L	NS	NS	250	50	<0.11	0.199	0.036 J	0.049	0.0283 J	0.121	0.037 J	0.036 J	0.069	0.052	0.064	0.018 J	0.046

Notes:

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4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG3-3						TG4-1					
Date:						9/29/10	10/3/19	1/8/20	4/2/20	7/9/20	10/7/20	9/29/10	10/8/19	12/31/19	4/2/20	7/9/20	10/8/20
BTEX																	
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																	
Acenaphthene	µg/L	NS	NS	NS	NS	<0.52	0.27	0.37	0.223	0.235	0.38	<0.54	< 0.0094	0.0226 J	< 0.0094	< 0.0094	< 0.0094
Acenaphthylene	µg/L	NS	NS	NS	NS	<1	0.038 J	0.0193 J	0.0177 J	< 0.0156	0.0196 J	<1.1	< 0.0156	0.0302 J	< 0.0156	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	0.023 J	0.196	0.073	0.125	0.096	0.13	<0.022	0.091	0.088	0.059	0.052	0.104
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.01	0.062	0.0308 J	0.038 J	< 0.02	0.0257 J	<0.011	0.0139 J	0.034 J	< 0.02	< 0.02	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.01	*0.039 J*	< 0.0167	*0.028 J*	< 0.0167	*0.0225 J*	<0.011	< 0.0167	*0.0224 J*	< 0.0167	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0083	*0.108*	*0.0245 J*	*0.051 J*	< 0.016	*0.04 J*	<0.0086	< 0.016	*0.0251 J*	< 0.016	< 0.016	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.062	0.072	0.0217 J	0.039 J	< 0.0142	0.0229 J	<0.065	< 0.0142	0.0203 J	< 0.0142	< 0.0142	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0083	0.036 J	< 0.0146	0.0222 J	< 0.0146	< 0.0146	<0.0086	< 0.0146	0.0243 J	< 0.0146	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	<0.062	*0.066*	*0.0207 J*	*0.0295 J*	< 0.0157	*0.0242 J*	<0.065	< 0.0157	*0.0281 J*	< 0.0157	< 0.0157	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.021	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.022	< 0.0173	0.0218 J	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.061 J	0.222	0.073	0.105	0.0266 J	0.102	<0.022	< 0.0088	0.029	< 0.0088	< 0.0088	0.0097 J
Fluorene	µg/L	NS	NS	400	80	0.15 J	0.05	0.06	0.0259	0.0136 J	0.0283	<0.11	< 0.0079	0.0285	< 0.0079	< 0.0079	< 0.0079
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.042	0.042	0.0152 J	0.0298 J	< 0.0121	0.0141 J	<0.043	< 0.0121	0.0201 J	< 0.0121	< 0.0121	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	<1	< 0.026	1.28	0.035 J	< 0.03	< 0.03	<1.1	0.032 J	0.058 J	0.046 J	< 0.03	0.034 J
Phenanthrene	µg/L	NS	NS	NS	NS	0.1 J	0.155	0.111	0.11	0.069	0.126	<0.043	< 0.0143	0.037 J	< 0.0143	< 0.0143	< 0.0143
Pyrene	µg/L	NS	NS	250	50	<0.1	0.178	0.058	0.087	0.0192 J	0.083	<0.11	< 0.0121	0.0267 J	< 0.0121	< 0.0121	< 0.0121

Notes:

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7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
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   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG4-2					TG4-3						
Date:						10/8/19	12/31/19	4/2/20	7/9/20	10/8/20	9/29/10	4/3/13	10/8/19	12/31/19	4/2/20	7/9/20	10/7/20
BTEX																	
Benzene	µg/L	0.67	0.067	5	0.5	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																	
Acenaphthene	µg/L	NS	NS	NS	NS	0.252	0.63	0.306	0.235	0.223	<0.52	<0.021	< 0.0094	0.0135 J	< 0.0094	< 0.0094	< 0.0094
Acenaphthylene	µg/L	NS	NS	NS	NS	< 0.0156	0.036 J	< 0.0156	< 0.0156	< 0.0156	<1	0.021 J	< 0.0156	0.0227 J	0.0164 J	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	0.144	0.109	0.08	0.086	0.14	<0.021	0.127	0.12	0.078	0.084	0.07	0.098
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.0289 J	0.051 J	0.0279 J	< 0.02	0.04 J	<0.01	0.033 J	0.0208 J	0.0313 J	0.0247 J	< 0.02	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	< 0.0167	*0.028 J*	< 0.0167	< 0.0167	< 0.0167	<0.01	*0.024 J*	< 0.0167	*0.0235 J*	< 0.0167	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	0.0196 J	*0.049 J*	0.0175 J	< 0.016	*0.034 J*	<0.0084	*0.044 J*	< 0.016	*0.0315 J*	*0.0253 J*	< 0.016	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	< 0.0142	0.039 J	< 0.0142	< 0.0142	< 0.0142	<0.063	0.042 J	0.0152 J	0.0285 J	0.0272 J	0.0181 J	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	< 0.0146	0.022 J	< 0.0146	< 0.0146	< 0.0146	<0.0084	<0.027	< 0.0146	0.0227 J	< 0.0146	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	0.0159 J	*0.041 J*	< 0.0157	< 0.0157	*0.0267 J*	<0.063	*0.023 J*	< 0.0157	*0.0263 J*	< 0.0157	< 0.0157	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.169	0.305	0.131	0.113	0.164	<0.021	0.083 J	0.025 J	0.034	0.035	0.0118 J	0.0185 J
Fluorene	µg/L	NS	NS	400	80	< 0.0079	0.0209 J	< 0.0079	< 0.0079	0.011 J	<0.1	<0.02	< 0.0079	0.0165 J	< 0.0079	< 0.0079	< 0.0079
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	< 0.0121	0.0284 J	< 0.0121	< 0.0121	< 0.0121	<0.042	<0.027	< 0.0121	0.0215 J	0.0171 J	0.0176 J	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	0.036 J	0.054 J	< 0.03	< 0.03	< 0.03	<1	<0.023	0.048 J	0.051 J	0.035 J	< 0.03	< 0.03
Phenanthrene	µg/L	NS	NS	NS	NS	0.0166 J	0.0304 J	0.0146 J	< 0.0143	0.063	<0.042	0.037 J	< 0.0143	0.0232 J	< 0.0143	< 0.0143	< 0.0143
Pyrene	µg/L	NS	NS	250	50	0.123	0.217	0.104	0.077	0.138	<0.1	0.071 J	0.0245 J	0.034 J	0.032 J	< 0.0121	0.0185 J

Notes:

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   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG5-1								TG5-2						
												DUP #3				DUP #6		DUP #4		
Date:						9/29/10	4/3/13	10/2/19	1/7/20	4/3/20	7/10/20	7/10/20	10/7/20	10/7/19	1/7/20	1/7/20	4/3/20	4/3/20	7/10/20	10/8/20
BTEX																				
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48	< 0.72	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	2.67	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.26
PAHs																				
Acenaphthene	µg/L	NS	NS	NS	NS	<0.52	<0.021	< 0.0094	< 0.0094	< 0.0094	< 0.0094	0.0122 J	< 0.0094	0.036	0.036	NT	0.0121 J	0.012 J	< 0.0094	0.051
Acenaphthylene	µg/L	NS	NS	NS	NS	<1	<0.02	< 0.0156	< 0.0156	< 0.0156	0.0312 J	0.052	< 0.0156	0.17	0.095	NT	0.06	0.081	< 0.0156	0.062
Anthracene	µg/L	NS	NS	3,000	600	<0.021	0.054 J	0.038 J	0.0294 J	0.064	0.102	0.146	0.061	0.32	0.12	NT	0.133	0.151	0.12	0.176
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.01	<0.025	0.074	0.0224 J	< 0.02	< 0.02	0.0264 J	< 0.02	0.082	0.055 J	NT	0.034 J	0.055 J	< 0.02	0.037 J
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.01	<0.018	< 0.0167	< 0.0167	< 0.0167	0.0198 J	*0.04 J*	< 0.0167	*0.166*	*0.091*	NT	*0.052 J*	*0.095*	< 0.0167	*0.05 J*
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0084	<0.02	*0.056*	< 0.016	< 0.016	*0.037 J*	*0.057*	< 0.016	**0.217**	*0.10*	NT	*0.056*	*0.108*	< 0.016	*0.074*
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.063	<0.023	0.034 J	0.0151 J	< 0.0142	0.037 J	0.065	< 0.0142	0.288	0.152	NT	0.077	0.148	< 0.0142	0.075
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0084	<0.027	0.051	< 0.0146	< 0.0146	0.016 J	0.0229 J	< 0.0146	0.06	0.027 J	NT	0.0146 J	0.036 J	< 0.0146	0.0216 J
Chrysene	µg/L	NS	NS	0.2	0.02	<0.063	<0.018	*0.065*	< 0.0157	< 0.0157	< 0.0157	*0.032 J*	< 0.0157	*0.074*	*0.041 J*	NT	*0.029 J*	*0.036 J*	< 0.0157	*0.032 J*
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.021	<0.023	0.0265 J	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	0.057	0.0225 J	NT	< 0.0173	0.0316 J	< 0.0173	0.0181 J
Fluoranthene	µg/L	NS	NS	400	80	<0.021	<0.026	0.051	0.0097 J	< 0.0088	0.0186 J	0.039	0.0124 J	0.218	0.101	NT	0.079	0.107	0.044	0.146
Fluorene	µg/L	NS	NS	400	80	<0.1	<0.02	< 0.0079	0.0088 J	< 0.0079	< 0.0079	0.0149 J	0.0084 J	< 0.0079	< 0.0079	NT	< 0.0079	< 0.0079	< 0.0079	0.0094 J
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.042	<0.027	0.0278 J	< 0.0121	< 0.0121	0.0259 J	0.041	< 0.0121	0.164	0.098	NT	0.049	0.104	< 0.0121	0.04
Naphthalene	µg/L	NS	NS	100	10	<1	<0.023	< 0.026	< 0.03	0.032 J	< 0.03	< 0.03	< 0.03	0.222	< 0.03	NT	0.036 J	< 0.03	< 0.03	0.042 J
Phenanthrene	µg/L	NS	NS	NS	NS	<0.042	0.027 J	< 0.0143	< 0.0143	< 0.0143	< 0.0143	0.0223 J	< 0.0143	0.0223 J	0.018 J	NT	0.0149 J	0.0179 J	< 0.0143	0.0259 J
Pyrene	µg/L	NS	NS	250	50	<0.1	<0.025	0.051	0.0122 J	< 0.0121	0.0248 J	0.049	0.0125 J	0.229	0.117	NT	0.086	0.12	0.04	0.143

Notes:

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4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG5-3							TG6-1						
Date:						9/29/10	4/3/13	10/2/19	12/31/19	4/3/20	7/10/20	10/7/20	9/29/10	4/3/13	10/3/19	12/31/19	4/7/20	7/10/20	10/7/20
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	<0.52	<0.021	< 0.0094	0.0149 J	< 0.0094	< 0.0094	< 0.0094	0.63 J	0.232	0.277	0.35	0.251	0.51	0.52
Acenaphthylene	µg/L	NS	NS	NS	NS	<1	<0.02	< 0.0156	0.0188 J	< 0.0156	< 0.0156	< 0.0156	<1.1	<0.02	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	<0.021	0.087	0.046 J	0.073	0.081	0.091	0.074	0.023 J	0.031 J	0.0204 J	0.032 J	0.0239 J	0.04 J	0.034 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.01	<0.025	0.0239 J	0.062 J	< 0.02	< 0.02	< 0.02	<0.011	<0.025	0.0261 J	0.054 J	0.0305 J	0.035 J	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.01	<0.018	< 0.0167	*0.044 J*	< 0.0167	< 0.0167	< 0.0167	<0.011	<0.018	< 0.0167	*0.042 J*	< 0.0167	*0.033 J*	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0083	<0.02	0.0187 J	*0.06*	< 0.016	< 0.016	< 0.016	<0.0091	<0.02	0.0192 J	*0.048 J*	0.0176 J	*0.043 J*	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.062	<0.023	< 0.0142	0.049	< 0.0142	< 0.0142	< 0.0142	<0.068	<0.023	0.0195 J	0.043 J	< 0.0142	0.0158 J	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0083	<0.027	< 0.0146	0.054	< 0.0146	< 0.0146	< 0.0146	<0.0091	<0.07	0.0157 J	0.048	< 0.0146	0.039 J	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	<0.062	<0.018	< 0.0157	*0.061*	< 0.0157	< 0.0157	< 0.0157	<0.068	<0.018	0.018 J	*0.051*	0.0181 J	*0.048 J*	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.021	<0.023	< 0.0173	0.042 J	< 0.0173	< 0.0173	< 0.0173	<0.023	<0.023	< 0.0173	0.04 J	< 0.0173	0.0208 J	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.051 J	0.096	0.0176 J	0.047	0.0099 J	0.0144 J	0.0224 J	0.047 J	0.069 J	0.0286	0.042	0.0227 J	0.0155 J	0.0194 J
Fluorene	µg/L	NS	NS	400	80	<0.1	<0.02	< 0.0079	0.0154 J	< 0.0079	< 0.0079	< 0.0079	0.22 J	0.048 J	0.0278	0.0307	0.017 J	0.021 J	0.033
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.041	<0.027	< 0.0121	0.046	< 0.0121	< 0.0121	< 0.0121	<0.045	<0.027	0.0145 J	0.039	0.0125 J	0.0182 J	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	<1	<0.023	< 0.026	0.045 J	0.032 J	< 0.03	< 0.03	<1.1	<0.023	< 0.026	0.042 J	0.038 J	< 0.03	< 0.03
Phenanthrene	µg/L	NS	NS	NS	NS	<0.041	0.027 J	< 0.0143	0.0249 J	< 0.0143	< 0.0143	< 0.0143	<0.045	0.025 J	< 0.0143	0.0204 J	0.0146 J	< 0.0143	< 0.0143
Pyrene	µg/L	NS	NS	250	50	<0.1	0.103	0.0242 J	0.057	0.0163 J	0.0221 J	0.0257 J	<0.11	0.055 J	0.0222 J	0.039	0.0201 J	< 0.0121	0.0155 J

Notes:

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5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
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   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	TG6-2						TG6-3						
Date:						10/3/19	1/10/20	4/7/20	7/10/20	10/7/20	DUP #3 10/7/20	9/29/10	4/3/13	10/3/19	12/31/19	4/7/20	7/10/20	10/7/20
BTEX																		
Benzene	µg/L	0.67	0.067	5	0.5	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs																		
Acenaphthene	µg/L	NS	NS	NS	NS	0.0108 J	0.0191 J	0.0219 J	< 0.0094	0.0172 J	0.0222 J	<0.52	<0.021	< 0.0094	0.0098 J	< 0.0094	< 0.0094	< 0.0094
Acenaphthylene	µg/L	NS	NS	NS	NS	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	<1	<0.02	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	0.041 J	0.0236 J	0.033 J	0.054	0.051	0.062	<0.021	0.042 J	0.019 J	0.0258 J	0.04 J	0.0211 J	0.048 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.044	0.0265 J	0.0247 J	0.0277 J	0.0258 J	0.0201 J	<0.01	<0.025	0.0145 J	0.0238 J	< 0.02	< 0.02	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	< 0.0167	< 0.0167	< 0.0167	*0.032 J*	< 0.0167	< 0.0167	<0.01	<0.018	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	*0.037 J*	< 0.016	< 0.016	*0.037 J*	< 0.016	< 0.016	<0.0084	<0.02	< 0.016	0.0163 J	< 0.016	< 0.016	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	< 0.0142	< 0.0142	< 0.0142	0.0185 J	< 0.0142	< 0.0142	<0.063	<0.023	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	< 0.0146	< 0.0146	< 0.0146	0.038 J	< 0.0146	< 0.0146	<0.0084	<0.027	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	*0.0301 J*	< 0.0157	< 0.0157	*0.033 J*	0.019 J	< 0.0157	<0.063	<0.018	< 0.0157	0.0163 J	< 0.0157	< 0.0157	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	< 0.0173	< 0.0173	< 0.0173	0.0192 J	< 0.0173	< 0.0173	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.18	0.067	0.071	0.079	0.088	0.062	0.083 J	0.069 J	0.036	0.043	0.0172 J	0.0117 J	0.053
Fluorene	µg/L	NS	NS	400	80	< 0.0079	0.0181 J	0.0149 J	< 0.0079	0.0098 J	0.0155 J	<0.1	<0.02	< 0.0079	0.0106 J	< 0.0079	< 0.0079	< 0.0079
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	< 0.0121	< 0.0121	< 0.0121	0.0217 J	< 0.0121	< 0.0121	<0.042	<0.027	< 0.0121	0.0124 J	< 0.0121	< 0.0121	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	< 0.026	0.049 J	< 0.03	< 0.03	< 0.03	< 0.03	<1	<0.023	< 0.026	0.041 J	0.04 J	< 0.03	< 0.03
Phenanthrene	µg/L	NS	NS	NS	NS	< 0.0143	0.0161 J	< 0.0143	< 0.0143	0.0299 J	< 0.0143	<0.042	0.021 J	< 0.0143	0.0187 J	< 0.0143	< 0.0143	< 0.0143
Pyrene	µg/L	NS	NS	250	50	0.148	0.07	0.066	0.071	0.088	0.069	<0.1	0.052 J	0.026 J	0.036 J	0.0149 J	0.0144 J	0.042

Notes:

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7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	PZ-01					PZ-02								
Date:						10/3/19	1/7/20	4/7/20	7/10/20	10/9/20	4/4/13	10/4/19	1/7/20	DUP #1 1/7/20	3/31/20	7/8/20	10/9/20	resample (Synergy) 10/29/20	resample (Pace) 10/29/20
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.27	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	NT	NT
Ethylbenzene	µg/L	1360.0	272.0	700	140	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.82	< 0.26	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	NT	NT
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<2.41	1.13 J	0.78 J	0.85 J	< 1.48	< 1.48	< 1.48	NT	NT
Toluene	µg/L	343.0	68.6	1,000	200	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.8	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	NT	NT
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	79	108	157	NT	155	39.0	169	142	110
Acenaphthylene	µg/L	NS	NS	NS	NS	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	1.01 J	1.00	2.14	NT	1.57 J	0.71	6.1	1.56 J	0.97
Anthracene	µg/L	NS	NS	3,000	600	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	<0.4	< 0.3	< 0.30	NT	< 0.75	< 0.15	1.2	< 0.75	0.26 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.0181 J	< 0.02	0.0256 J	< 0.02	< 0.02	<0.5	< 0.262	< 0.40	NT	< 1	< 0.2	0.89	< 1.00	< 0.076
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	<0.36	< 0.334	< 0.334	NT	< 0.835	< 0.167	**0.37 J**	< 0.835	< 0.11
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	< 0.016	< 0.016	0.0179 J	< 0.016	< 0.016	<0.4	< 0.32	< 0.32	NT	< 0.8	< 0.16	**0.69 J**	< 0.80	< 0.057
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	< 0.0142	< 0.0142	0.019 J	< 0.0142	< 0.0142	<0.46	< 0.284	< 0.284	NT	< 0.71	< 0.142	< 0.284	< 0.71	< 0.068
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	< 0.0146	< 0.0146	0.0151 J	< 0.0146	< 0.0146	<0.54	< 0.292	< 0.292	NT	< 0.73	< 0.146	< 0.292	< 0.73	< 0.076
Chrysene	µg/L	NS	NS	0.2	0.02	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	<0.36	< 0.314	< 0.314	NT	< 0.785	< 0.157	**0.63 J**	< 0.785	< 0.13
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.46	< 0.346	< 0.346	NT	< 0.865	< 0.173	< 0.346	< 0.865	< 0.10
Fluoranthene	µg/L	NS	NS	400	80	0.0133 J	< 0.0088	< 0.0088	< 0.0088	0.0104 J	<0.52	< 0.176	< 0.176	NT	< 0.44	< 0.088	1.62	< 0.44	< 0.11
Fluorene	µg/L	NS	NS	400	80	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	3.6	29.8	43.0	NT	51	14.8	48	50.0	38.5
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	< 0.0121	< 0.0121	0.0162 J	< 0.0121	< 0.0121	<0.54	< 0.242	< 0.242	NT	< 0.605	< 0.121	< 0.242	< 0.605	< 0.18
Naphthalene	µg/L	NS	NS	100	10	< 0.026	< 0.03	< 0.03	< 0.03	< 0.03	1.79	*19.4*	*30.1*	NT	*25.2*	0.84 J	*20.5*	*28.8*	*18.2*
Phenanthrene	µg/L	NS	NS	NS	NS	< 0.0143	< 0.0143	< 0.0143	< 0.0143	0.0144 J	<0.36	< 0.286	< 0.286	NT	< 0.715	< 0.143	6	< 0.715	< 0.14
Pyrene	µg/L	NS	NS	250	50	0.0134 J	< 0.0121	< 0.0121	< 0.0121	< 0.0121	<0.5	< 0.242	< 0.242	NT	< 0.605	< 0.121	2.23	< 0.605	< 0.076

Notes:

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Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	PZ-03											
Date:						4/4/13	10/9/19	1/8/20	DUP #2 1/8/20	3/31/20	DUP #2 3/31/20	7/14/20	DUP #4 7/14/20	10/9/20	DUP #4 10/9/20	resample (Synergy) 10/29/20	resample (Pace) 10/29/20
BTEX																	
Benzene	µg/L	0.67	0.067	5	0.5	*0.44 J*	**2.02**	**1.45**	**1.38**	**2.31**	**2.27**	**1.33**	**1.14**	**1.27**	**1.11**	NT	NT
Ethylbenzene	µg/L	1360.0	272.0	700	140	2.68	10.7	54	53	61	60	42	37	1.53	1.39	NT	NT
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	1.92 J	34.1	68.9	68.3	86	84.5	56.5	48.9	20.4	19.7	NT	NT
Toluene	µg/L	343.0	68.6	1,000	200	<0.8	1.01	1.36	1.37	2.09	2.21	1.2	1.27	0.47 J	0.61 J	NT	NT
PAHs																	
Acenaphthene	µg/L	NS	NS	NS	NS	116	154	350	NT	316	350	291	320	131	171	191	149
Acenaphthylene	µg/L	NS	NS	NS	NS	0.99 J	< 4.68	< 9.36	NT	< 31.2	< 31.2	< 15.6	< 7.8	5.7	7.1	< 7.80	1.2 J
Anthracene	µg/L	NS	NS	3,000	600	2.37	< 4.5	< 9.00	NT	< 30	< 30	< 15	< 7.5	0.64 J	< 0.75	< 7.50	< 2.1
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	2.03	< 3.93	< 12.0	NT	< 40	< 40	< 20	< 10	1.28 J	< 1	< 10.0	< 1.5
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	**0.71 J**	< 5.01	< 10.02	NT	< 33.4	< 33.4	< 16.7	< 8.35	**0.38 J**	< 0.835	< 8.35	< 2.1
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	**1.45**	< 4.8	< 9.6	NT	< 32	< 32	< 16	< 8	**1.22**	< 0.8	< 8.00	< 1.1
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.46	< 4.26	< 8.52	NT	< 28.4	< 28.4	< 14.2	< 7.1	0.49 J	< 0.71	< 7.10	< 1.4
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.54	< 4.38	< 8.76	NT	< 29.2	< 29.2	< 14.6	< 7.3	0.7 J	< 0.73	< 7.30	< 1.5
Chrysene	µg/L	NS	NS	0.2	0.02	**1.47**	< 4.71	< 9.42	NT	< 31.4	< 31.4	< 15.7	< 7.85	**0.85 J**	< 0.785	< 7.85	< 2.6
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.46	< 5.19	< 10.38	NT	< 34.6	< 34.6	< 17.3	< 8.65	< 0.346	< 0.865	< 8.65	< 2.0
Fluoranthene	µg/L	NS	NS	400	80	10.7	< 2.64	< 5.28	NT	< 17.6	< 17.6	< 8.8	< 4.4	1.64	< 0.44	< 4.40	< 2.1
Fluorene	µg/L	NS	NS	400	80	33	57.0	*110*	NT	*102*	*115*	*121*	*116*	34	48	62.0	44.9
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.54	< 3.63	< 7.26	NT	< 24.2	< 24.2	< 12.1	< 6.05	0.48 J	< 0.605	< 6.05	< 3.5
Naphthalene	µg/L	NS	NS	100	10	*47*	**1620**	**4000**	NT	**3600**	**3800**	**3010**	**3150**	*4.9*	*9.4*	**1680**	**1310**
Phenanthrene	µg/L	NS	NS	NS	NS	1.87	11.0 J	37.0	NT	45 J	51 J	43 J	44	3.7	0.9 J	19.3 J	12.8 J
Pyrene	µg/L	NS	NS	250	50	7.1	< 3.63	< 7.26	NT	< 24.2	< 24.2	< 12.1	< 6.05	1.9	< 0.605	< 6.05	< 1.5

Notes:

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5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	PZ-04					PZ-05				
Date:						10/2/19	1/3/20	4/7/20	7/14/20	10/8/20	10/7/19	1/3/20	4/7/20	7/10/20	10/8/20
BTEX															
Benzene	µg/L	0.67	0.067	5	0.5	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26
PAHs															
Acenaphthene	µg/L	NS	NS	NS	NS	< 0.0094	0.0132 J	< 0.0094	< 0.0094	< 0.0094	0.0115 J	< 0.0094	< 0.0094	< 0.0094	< 0.0094
Acenaphthylene	µg/L	NS	NS	NS	NS	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156
Anthracene	µg/L	NS	NS	3,000	600	0.0187 J	0.032 J	0.0181 J	0.0165 J	0.0166 J	0.0155 J	< 0.015	< 0.015	0.054	0.0244 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.0166 J	< 0.02	< 0.02	< 0.02	< 0.02	0.037 J	< 0.02	< 0.02	0.0285 J	< 0.02
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	0.0177 J	< 0.0167	< 0.0167	< 0.0167	< 0.0167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	*0.035 J*	< 0.016	< 0.016	*0.0258 J*	< 0.016
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142	0.0176 J	< 0.0142	< 0.0142	0.0225 J	< 0.0142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146
Chrysene	µg/L	NS	NS	0.2	0.02	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	*0.0262 J*	< 0.0157	< 0.0157	*0.0242 J*	< 0.0157
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173
Fluoranthene	µg/L	NS	NS	400	80	0.0138 J	< 0.0088	0.0145 J	0.009 J	< 0.0088	0.031	< 0.0088	< 0.0088	0.114	0.0249 J
Fluorene	µg/L	NS	NS	400	80	< 0.0079	< 0.0079	< 0.0079	0.0139 J	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	0.0081 J
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	0.0126 J	< 0.0121
Naphthalene	µg/L	NS	NS	100	10	< 0.026	0.048 J	< 0.03	0.035 J	0.041 J	0.124	0.058 J	< 0.03	< 0.03	0.047 J
Phenanthrene	µg/L	NS	NS	NS	NS	0.026 J	< 0.0143	< 0.0143	0.0172 J	< 0.0143	0.018 J	< 0.0143	< 0.0143	0.0154 J	0.0236 J
Pyrene	µg/L	NS	NS	250	50	0.0189 J	< 0.0121	< 0.0121	< 0.0121	< 0.0121	0.029 J	< 0.0121	< 0.0121	0.086	0.0174 J

Notes:

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4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	PZ-06					PZ-09R							
Date:						10/3/19	1/3/20	4/7/20	7/10/20	10/9/20	10/4/19	DUP #2 10/4/19	1/7/20	DUP #3 1/7/20	4/1/20	7/8/20	DUP #2 7/8/20	10/6/20
BTEX																		
Benzene	µg/L	0.67	0.067	5	0.5	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	< 0.33
Ethylbenzene	µg/L	1360.0	272.0	700	140	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	< 0.32
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 0.72	< 0.72	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	< 1.48
Toluene	µg/L	343.0	68.6	1,000	200	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	0.54 J	0.54 J	0.55 J
PAHs																		
Acenaphthene	µg/L	NS	NS	NS	NS	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	18.8	NT	31.4	NT	15.4	28.9	37	18.5
Acenaphthylene	µg/L	NS	NS	NS	NS	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	0.42	NT	0.77	NT	0.32	0.77	0.75	0.52
Anthracene	µg/L	NS	NS	3,000	600	0.0205 J	0.0266 J	0.0183 J	0.0301 J	0.0221 J	1.86	NT	0.33 J	NT	0.7	0.236 J	0.172 J	0.3 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.0149 J	< 0.02	0.0205 J	< 0.02	< 0.02	1.36	NT	0.76	NT	0.71	0.234 J	0.209 J	0.32 J
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	**0.36**	NT	**0.217 J**	NT	*0.184 J*	< 0.167	< 0.167	< 0.167
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	< 0.016	< 0.016	0.016	< 0.016	< 0.016	**0.85**	NT	**0.32 J**	NT	**0.275**	< 0.16	< 0.16	*0.192 J*
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142	0.142 J	NT	< 0.142	NT	< 0.071	< 0.142	< 0.142	< 0.142
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	< 0.0146	< 0.0146	< 0.0146	< 0.0146	< 0.0146	0.306	NT	0.147 J	NT	0.101 J	< 0.146	< 0.146	< 0.146
Chrysene	µg/L	NS	NS	0.2	0.02	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	**1.06**	NT	**0.43 J**	NT	**0.43**	*0.165 J*	< 0.157	**0.37 J**
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0865	NT	< 0.173	NT	< 0.0865	< 0.173	< 0.173	< 0.173
Fluoranthene	µg/L	NS	NS	400	80	< 0.0088	0.0095 J	0.0112 J	< 0.0088	0.0098 J	7.00	NT	4.50	NT	6.1	3.30	4.6	1.82
Fluorene	µg/L	NS	NS	400	80	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	11.1	NT	6.90	NT	6.3	4.60	5.6	0.51
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	< 0.0121	< 0.0121	0.013 J	< 0.0121	< 0.0121	0.099 J	NT	< 0.121	NT	< 0.0605	< 0.121	< 0.121	< 0.121
Naphthalene	µg/L	NS	NS	100	10	< 0.026	0.062 J	0.087 J	< 0.03	< 0.03	0.57	NT	1.03	NT	0.94	< 0.3	< 0.3	< 0.3
Phenanthrene	µg/L	NS	NS	NS	NS	< 0.0143	0.0188 J	0.0148 J	< 0.0143	< 0.0143	0.61	NT	0.244 J	NT	0.277	< 0.143	< 0.143	< 0.143
Pyrene	µg/L	NS	NS	250	50	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	4.80	NT	2.05	NT	3.3	0.98	0.97	0.7

Notes:

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6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
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   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	PZ-10						MW-A							
Date:						4/4/13	10/9/19	1/3/20	4/7/20	7/8/20	10/9/20	9/30/10	4/4/13	10/9/19	1/3/20	4/3/20	7/14/20	DUP #5 7/14/20	
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33	
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32	
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48	
Toluene	µg/L	343.0	68.6	1,000	200	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	5.2	2.95	4.60	3.3	5.40	4	<0.51	<0.021	0.037	< 0.0094	< 0.0094	< 0.0094	0.285	
Acenaphthylene	µg/L	NS	NS	NS	NS	0.095	0.071	0.063	0.0297 J	0.052	0.042 J	<1	<0.02	< 0.0156	< 0.0156	< 0.0156	< 0.0156	< 0.0156	
Anthracene	µg/L	NS	NS	3,000	600	0.31	0.236	0.175	0.138	0.217	0.158	<0.021	0.025 J	0.0231 J	0.0224 J	0.0231 J	0.032 J	0.0208 J	
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	0.128	0.075	< 0.02	0.0264 J	< 0.02	0.035 J	<0.01	<0.025	0.0146 J	< 0.02	< 0.02	< 0.02	< 0.02	
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	*0.07*	*0.06*	< 0.0167	< 0.0167	< 0.0167	< 0.0167	<0.01	<0.018	< 0.0167	< 0.0167	< 0.0167	< 0.0167	< 0.0167	
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	*0.169*	*0.151*	< 0.016	0.018 J	< 0.016	*0.027 J*	<0.0082	<0.02	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	0.108	0.14	< 0.0142	< 0.0142	< 0.0142	< 0.0142	<0.062	<0.023	< 0.0142	< 0.0142	< 0.0142	< 0.0142	< 0.0142	
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	0.064 J	0.046 J	< 0.0146	< 0.0146	< 0.0146	< 0.0146	<0.0082	<0.027	< 0.0146	< 0.0146	< 0.0146	< 0.0146	0.0177 J	
Chrysene	µg/L	NS	NS	0.2	0.02	*0.132*	*0.083*	< 0.0157	< 0.0157	< 0.0157	*0.0247 J*	<0.062	<0.018	< 0.0157	< 0.0157	< 0.0157	< 0.0157	< 0.0157	
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	< 0.0173	
Fluoranthene	µg/L	NS	NS	400	80	0.41	0.179	0.05	0.075	0.075	0.101	<0.021	<0.026	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0088	
Fluorene	µg/L	NS	NS	400	80	0.92	0.43	1.12	0.87	1.22	0.88	<0.1	<0.02	0.0125 J	< 0.0079	< 0.0079	0.0127 J	0.108	
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	0.071 J	0.082	< 0.0121	< 0.0121	< 0.0121	< 0.0121	<0.041	<0.027	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	
Naphthalene	µg/L	NS	NS	100	10	0.32	2.71	0.059 J	0.033 J	0.0302 J	0.039 J	<1	<0.023	0.74	0.046 J	0.045 J	0.068 J	4.7	
Phenanthrene	µg/L	NS	NS	NS	NS	1.36	0.072	0.125	0.1	0.09	0.068	<0.041	0.026 J	< 0.0143	< 0.0143	< 0.0143	0.032 J	0.04 J	
Pyrene	µg/L	NS	NS	250	50	0.299	0.154	0.0311 J	0.053	0.04	0.077	<0.1	0.025	< 0.0121	< 0.0121	< 0.0121	< 0.0121	< 0.0121	

abandoned October 2020

Notes:

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6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
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   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-B								MW-C				MW-D	
Date:						9/27/10	4/5/13	1/10/20	DUP #5 1/10/20	4/8/20	DUP #5 4/8/20	7/15/20		9/27/10	4/5/13	4/8/20		9/27/10	4/5/13
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.22	< 0.33	< 0.33	< 0.33		<0.2	<0.27	< 0.33		<0.2	<0.27
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.26	< 0.32	< 0.32	< 0.32		<0.2	<0.82	< 0.32		<0.2	<0.82
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 0.72	< 1.48	< 1.48	< 1.48		<0.6	<2.41	< 1.48		<0.6	<2.41
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26		<0.2	<0.8	< 0.26		<0.2	<0.8
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	<0.53	<0.021	0.046	NT	< 0.0094	< 0.0094	< 0.0094		<0.54	<0.021	< 0.0094		<0.55	<0.021
Acenaphthylene	µg/L	NS	NS	NS	NS	<1.1	<0.02	< 0.0156	NT	< 0.0156	< 0.0156	< 0.0156		<1.1	<0.02	< 0.0156		<1.1	<0.02
Anthracene	µg/L	NS	NS	3,000	600	<0.021	<0.02	< 0.015	NT	< 0.015	< 0.015	0.0224 J		<0.022	<0.02	< 0.015		<0.022	<0.02
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.011	<0.025	< 0.02	NT	0.0217 J	< 0.02	< 0.02		<0.011	<0.025	< 0.02		<0.011	<0.025
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.011	<0.018	< 0.0167	NT	< 0.0167	< 0.0167	0.0193 J		<0.0111	<0.018	< 0.0167		<0.011	<0.018
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0086	<0.02	< 0.016	NT	0.0171 J	< 0.016	*0.0213 J*		<0.0087	*0.039 J*	< 0.016		<0.0088	<0.02
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.064	<0.023	< 0.0142	NT	0.0185 J	< 0.0142	< 0.0142		<0.065	0.026 J	0.0168 J		<0.066	0.038 J
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0086	<0.027	< 0.0146	NT	< 0.0146	< 0.0146	0.0191 J		<0.0087	<0.027	< 0.0146		<0.0088	<0.027
Chrysene	µg/L	NS	NS	0.2	0.02	<0.064	<0.018	< 0.0157	NT	< 0.0157	< 0.0157	*0.02 J*		<0.065	*0.028 J*	< 0.0157		<0.066	*0.02 J*
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.021	<0.023	< 0.0173	NT	< 0.0173	< 0.0173	< 0.0173		<0.022	<0.023	< 0.0173		<0.022	<0.023
Fluoranthene	µg/L	NS	NS	400	80	<0.021	<0.026	< 0.0088	NT	0.0101 J	< 0.0088	0.010 J		<0.022	0.052 J	0.0134 J		<0.022	<0.026
Fluorene	µg/L	NS	NS	400	80	<0.11	<0.02	0.0245 J	NT	< 0.0079	< 0.0079	0.0081 J		<0.11	<0.02	< 0.0079		<0.11	<0.02
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.043	<0.027	< 0.0121	NT	0.0147 J	< 0.0121	< 0.0121		<0.043	<0.027	0.0128 J		<0.044	<0.027
Naphthalene	µg/L	NS	NS	100	10	<1.1	0.034 J	0.40	NT	< 0.03	< 0.03	0.052 J		<1.1	<0.023	< 0.03		<1.1	<0.023
Phenanthrene	µg/L	NS	NS	NS	NS	<0.043	0.037 J	0.0218 J	NT	< 0.0143	< 0.0143	0.0238 J		<0.043	0.044 J	< 0.0143		<0.044	<0.018
Pyrene	µg/L	NS	NS	250	50	<0.11	0.025	< 0.0121	NT	< 0.0121	< 0.0121	< 0.0121		<0.11	0.046 J	< 0.0121		<0.11	<0.025

abandoned October 2020

abandoned October 2020

Notes:

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3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-E						MW-F						MW-G	
Date:						9/30/10	4/5/13	1/10/20	4/8/20	7/15/20		9/30/10	4/5/13	1/10/20	4/8/20	7/15/20		9/30/10	4/5/13
BTEX																			
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.33	< 0.33		<0.2	<0.27	< 0.22	< 0.33	< 0.33		<0.2	<0.27
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.32	< 0.32		<0.2	<0.82	< 0.26	< 0.32	< 0.32		<0.2	<0.82
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 1.48	< 1.48		<0.6	<2.41	< 0.72	< 1.48	< 1.48		<0.6	<2.41
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.26	< 0.26		<0.2	<0.8	< 0.19	< 0.26	< 0.26		<0.2	<0.8
PAHs																			
Acenaphthene	µg/L	NS	NS	NS	NS	<0.56	<0.021	< 0.0094	< 0.0094	< 0.0094		<0.51	<0.021	< 0.0094	< 0.0094	0.03		<0.51	<0.021
Acenaphthylene	µg/L	NS	NS	NS	NS	<1.1	<0.02	< 0.0156	< 0.0156	< 0.0156		<1	<0.02	< 0.0156	< 0.0156	< 0.0156		<1	<0.02
Anthracene	µg/L	NS	NS	3,000	600	<0.022	<0.02	< 0.015	< 0.015	< 0.015		<0.021	<0.02	< 0.015	< 0.015	< 0.015		<0.02	<0.02
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.011	<0.025	< 0.02	< 0.02	< 0.02		<0.01	0.03 J	< 0.02	< 0.02	< 0.02		<0.01	<0.025
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	*0.02 J*	*0.038 J*	< 0.0167	< 0.0167	0.0189 J		<0.01	*0.039 J*	< 0.0167	< 0.0167	< 0.0167		<0.01	<0.018
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.009	*0.063*	< 0.016	*0.0291 J*	0.0192 J		<0.0082	*0.065*	< 0.016	< 0.016	< 0.016		<0.0082	<0.02
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	0.12 J	0.44	< 0.0142	0.208	< 0.0142		<0.062	0.188	0.0282 J	0.04 J	< 0.0142		<0.061	0.047 J
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.009	<0.027	< 0.0146	< 0.0146	0.0207 J		<0.0082	<0.027	< 0.0146	< 0.0146	< 0.0146		<0.0082	<0.027
Chrysene	µg/L	NS	NS	0.2	0.02	<0.067	<0.018	< 0.0157	< 0.0157	< 0.0157		<0.062	*0.06*	< 0.0157	< 0.0157	< 0.0157		<0.061	<0.018
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.022	<0.023	< 0.0173	0.0228 J	< 0.0173		<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173		<0.02	<0.023
Fluoranthene	µg/L	NS	NS	400	80	<0.022	<0.026	< 0.0088	0.0159 J	< 0.0088		<0.021	0.087	0.0088 J	0.0131 J	< 0.0088		<0.02	<0.026
Fluorene	µg/L	NS	NS	400	80	<0.11	<0.02	< 0.0079	< 0.0079	< 0.0079		<0.1	<0.02	< 0.0079	< 0.0079	0.0101 J		<0.1	<0.02
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.045	0.094	< 0.0121	0.043	< 0.0121		<0.041	0.04 J	< 0.0121	< 0.0121	< 0.0121		<0.041	<0.027
Naphthalene	µg/L	NS	NS	100	10	<1.1	<0.023	< 0.03	< 0.03	0.046 J		<1	0.027 J	0.04 J	< 0.03	0.75		<1	<0.023
Phenanthrene	µg/L	NS	NS	NS	NS	<0.045	0.018 J	< 0.0143	0.0145 J	0.0146 J		<0.041	0.062	< 0.0143	0.0152 J	< 0.0143		<0.041	0.02 J
Pyrene	µg/L	NS	NS	250	50	<0.11	0.034 J	< 0.0121	0.0245 J	< 0.0121		<0.1	0.127	0.0166 J	0.0229 J	< 0.0121		<0.1	0.033 J

abandoned October 2020

abandoned October 2020

Notes:

1. EPA ROD ES = Enforcement Standard within the EPA's 1990 Record of Decision for Moss America
2. EPA ROD PAL = Preventive Action Limit within the EPA's 1990 Record of Decision for Moss America
3. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
4. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
5. NS = no standard
6. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
8. NT = not tested
9. Exceedances:
   - **BOLD** = Concentration exceeds NR 140 ES
   - *ITALICS* = Concentration exceeds NR 140 PAL
   - **BOLD** = Concentration exceeds EPA ROD ES
   - *ITALICS* = Concentration exceeds EPA ROD PAL

Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

Table 4
Groundwater Analytical Results
Former Moss American Facility
Sigma Project No. 18687

Well Location:		EPA ROD ES	EPA ROD PAL	NR 140 ES	NR 140 PAL	MW-H						MW-I		MW-J						MW-K
Date:						9/28/10	4/5/13	1/10/20	4/8/20	7/14/20	10/9/20	9/28/10	4/5/13	9/28/10	4/5/13	1/10/20	4/8/20	7/14/20		9/28/10
BTEX																				
Benzene	µg/L	0.67	0.067	5	0.5	<0.2	<0.27	< 0.22	< 0.33	< 0.33	< 0.33	<0.2	<0.27	<0.2	<0.27	< 0.22	< 0.33	< 0.33		<0.2
Ethylbenzene	µg/L	1360.0	272.0	700	140	<0.2	<0.82	< 0.26	< 0.32	< 0.32	< 0.32	<0.2	<0.82	<0.2	<0.82	< 0.26	< 0.32	< 0.32		<0.2
Xylenes, Total	µg/L	620.0	124.0	10,000	1,000	<0.6	<2.41	< 0.72	< 1.48	< 1.48	< 1.48	<0.6	<2.41	<0.6	<2.41	< 0.72	< 1.48	< 1.48		<0.6
Toluene	µg/L	343.0	68.6	1,000	200	<0.2	<0.8	< 0.19	< 0.26	< 0.26	0.61 J	<0.2	<0.8	<0.2	<0.8	< 0.19	< 0.26	< 0.26		<0.2
PAHs																				
Acenaphthene	µg/L	NS	NS	NS	NS	<0.52	<0.021	< 0.0094	< 0.0094	0.0216 J	0.0155 J	<0.52	<0.021	<0.54	<0.021	0.0126 J	< 0.0094	0.0167 J		<0.53
Acenaphthylene	µg/L	NS	NS	NS	NS	<1	<0.02	< 0.0156	< 0.0156	< 0.0156	< 0.0156	<1	<0.02	<1.1	<0.02	< 0.0156	< 0.0156	< 0.0156		<1.1
Anthracene	µg/L	NS	NS	3,000	600	<0.021	<0.02	< 0.015	< 0.015	< 0.015	< 0.015	<0.021	<0.02	<0.021	<0.02	< 0.015	< 0.015	< 0.015		0.022 J
Benzo(a)anthracene	µg/L	NS	NS	NS	NS	<0.01	0.053 J	0.0264 J	0.046 J	< 0.02	< 0.02	<0.01	0.055 J	<0.011	0.026 J	< 0.02	< 0.02	< 0.02		<0.011
Benzo(a)pyrene	µg/L	NS	NS	0.2	0.02	<0.01	*0.049 J*	0.0192 J	*0.036 J*	< 0.0167	< 0.0167	<0.01	*0.093*	<0.011	*0.025 J*	< 0.0167	< 0.0167	< 0.0167		<0.011
Benzo(b)fluoranthene	µg/L	NS	NS	0.2	0.02	<0.0083	*0.107*	*0.036 J*	*0.057*	< 0.016	< 0.016	<0.0084	**0.222**	<0.0086	*0.055 J*	< 0.016	< 0.016	< 0.016		<0.0085
Benzo(ghi)perylene	µg/L	NS	NS	NS	NS	<0.062	0.107	0.0235 J	0.079	< 0.0142	< 0.0142	<0.063	0.152	<0.064	0.054 J	< 0.0142	0.025 J	< 0.0142		<0.064
Benzo(k)fluoranthene	µg/L	NS	NS	NS	NS	<0.0083	<0.027	< 0.0146	0.027 J	< 0.0146	< 0.0146	<0.0084	0.071 J	<0.0086	<0.027	< 0.0146	< 0.0146	0.0155 J		<0.0085
Chrysene	µg/L	NS	NS	0.2	0.02	<0.062	*0.082*	0.0187 J	*0.053*	< 0.0157	< 0.0157	<0.063	*0.111*	<0.064	*0.038 J*	< 0.0157	< 0.0157	< 0.0157		<0.064
Dibenzo(a,h)anthracene	µg/L	NS	NS	NS	NS	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173	< 0.0173	<0.021	<0.023	<0.021	<0.023	< 0.0173	< 0.0173	< 0.0173		<0.021
Fluoranthene	µg/L	NS	NS	400	80	<0.021	0.153	0.034	0.09	0.0157 J	< 0.0088	<0.021	0.196	<0.021	0.061 J	0.0104 J	< 0.0088	< 0.0088		<0.021
Fluorene	µg/L	NS	NS	400	80	<0.1	<0.02	< 0.0079	< 0.0079	< 0.0079	0.0121 J	<0.1	<0.02	<0.11	<0.02	< 0.0079	< 0.0079	0.0081 J		<0.11
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS	NS	<0.042	0.041 J	0.0172 J	0.035 J	< 0.0121	< 0.0121	<0.042	0.093	<0.043	<0.027	< 0.0121	0.0148 J	< 0.0121		<0.043
Naphthalene	µg/L	NS	NS	100	10	<1	<0.023	0.128	< 0.03	0.49	< 0.03	<1	<0.023	<1.1	0.032 J	0.163	< 0.03	0.34		<1.1
Phenanthrene	µg/L	NS	NS	NS	NS	<0.042	0.044 J	0.0205 J	0.0241 J	< 0.0143	< 0.0143	<0.042	0.087	<0.043	0.047 J	0.0157 J	< 0.0143	< 0.0143		<0.043
Pyrene	µg/L	NS	NS	250	50	<0.1	0.15	0.0294 J	0.094	< 0.0121	< 0.0121	<0.1	0.16	<0.11	0.058 J	< 0.0121	< 0.0121	< 0.0121		<0.11

abandoned October 2020

Notes:

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   - **BOLD** = Concentration exceeds EPA ROD ES
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Trip blank 12/31/19, 1/10/20 BTEX less than LOD
Trip blank 4/3/20, 4/8/20 BTEX less than LOD
Trip blank 7/10/2020, 7/14/2020 BTEX less than LOD
Equip blank 7/10/2020 BTEX less than LOD

ATTACHMENT 1

INVESTIGATIVE WASTE MANIFESTS

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WID039042626	1	(877) 818-0087	001971878 VES

GENERATOR

5. Generator's Name and Mailing Address
TOM WENTLAND (DNR)
WISCONSIN DNR - MOSS-AMERICA CO
1155 PILGRIM ROAD
PLYMOUTH, WI 53073
Generator's Phone: 920 893-8528

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: NID080631362

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

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
HIGHWAY 73
3.5 MILES W. OF TAYLORS BAYOU
PORT ARTHUR, TX 77640
Facility's Phone: 409 736 2821
U.S. EPA ID Number: TXD000838896

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers 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	5	D M	2030	P	F034		
						K001	OLI36190	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ER Service Contracted by VEOLIA + Contract retained by generator confirms agency authority on behalf transporter to add or substitute additional transporters on generator's behalf.**STATE WASTE*** + ID
W:657967 A:PTA657967L OLI36190

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/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Samuel Thompson on behalf of		10	16	20

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Samuel Thompson		10	16	20
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

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

Land Disposal Restriction Notification Form

Generator Name **WISCONSIN DNR - MOSS-AMERICA CO**

EPA ID Number **WID039052626** Manifest **001971878VES**

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: **V8-3589967000-001 (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:	

I hearby 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 EST Date 10-16-20

PACKING SUMMARY

SL Accnt Id (Gen Num): 48145 (639076)
WISCONSIN DNR - MOSS-AMERICA CO
8716 GRANVILLE RD
MILWAUKEE, WI 53224
Attn: TOM WENTLAND (DNR)
EPA ID: WID039052626

Manifest Number: 001971878VES
Field System ID: V8
Work Order Number: 3589967000
Date Shipped: 10/16/2020

Container#: V8-3589967000-001 Waste Area: Manifest Page/Line: 01 / 1

WIP: 657967 DisposalCode: PTA657967L PHY State: L

Date Accumulated: 10/16/2020 Gen Drum ID:

Shipping Name: NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (K001, F034), 9, III, RQ

No. of Commons: 05 Outer Container: 551A2-DM Inner Container:

Primary Waste Codes: F034,K001 PCB Serial #: OOS Date: / /

Total Cmns Wt: 2000 SIC: 9999 Source: G49 Form: W219 System: H040 Cubic Ft.: 7.50

Individual Common Weights: 400, 400, 400, 400, 400 (POUNDS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		WATER [100%]	F034, K001

Activity Report

JOB NO: **3589967000** WO NO: **3589967000**
BILL DOC NO: **V801016134** EPA ID: **WID039052626**

BT Acnt ID (Cust#) **7134 (534640)** SL Acnt ID (Gen#): **48145 (639076)**

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

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

CONTACT: **TOM WENTLAND (DNR)**

CONTACT: **TOM WENTLAND (DNR)**

MANIFEST NUMBER(S):
001971878VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		10/16/2020	**W38**

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001971878VES WIP 657967 / Approval PTA657967L GROUNDWATER		551A2-DM		P	1 / 1	

Total Hours: **0**

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

Activity Report

JOB NO: **3589967000** WO NO: **3589967000**
BILL DOC NO: **V801016134** EPA ID: **WID039052626**
BT Acnt ID (Cust#) **7134 (534640)** SL Acnt ID (Gen#): **48145 (639076)**

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

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

CONTACT: **TOM WENTLAND (DNR)**

CONTACT: **TOM WENTLAND (DNR)**

MANIFEST NUMBER(S):
Non-Disposals

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		10/16/2020	**W38**

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
10/16/2020 Manpwr.- FIELD SUPERVISOR		125	1@1.5	HOUR	/	
10/16/2020 Manpwr.- FIELD TECHNICIAN		3175	1@1.5	HOUR	/	
10/16/2020 Misc. - EPA E-MANIFEST FEE		6776	1	EACH	/	
10/16/2020 Misc. - LTL STOP CHARGE 000-050 MILES		3939	1	EACH	/	
10/16/2020 Mtrl. - 239-1 55 Gallon Metal Open Head Container (EACH) (EACH)		3354	5	EACH	/	
Material provided for manifest 001971878VES						

Total Hours: **3**

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

Activity Report

JOB NO: **3589967000** WO NO: **3589967000**
BILL DOC NO: **V801016134** EPA ID: **WID039052626**
BT Acnt ID (Cust#) **7134 (534640)** SL Acnt ID (Gen#): **48145 (639076)**

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

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

CONTACT: **TOM WENTLAND (DNR)**

CONTACT: **TOM WENTLAND (DNR)**

MANIFEST NUMBER(S):
Non-Disposals

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		10/16/2020	W38

Comments:

Signature: Sm of Thr on behalf of

Print Name: Samuel Thimmesch

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.

ATTACHMENT 2

WELL ABANDONMENT FORMS

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee	___ ___ ___ ___ ___	TG2-1

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1762 N	☒ DD	☐ GPS008
-88.0396 W	☐ DDM	☒ SCR002 ☐ OTH001

¼ / ¼ NE	¼ NW	Section	Township	Range
or Gov't Lot #		08	08 N	21 ☒ E ☐ W

Well Street Address: 9633 W. Brown Deer Road

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable ___ ___

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
11.17	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	11.17

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	2.98

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Register of Deeds

Present Well Owner: same

Mailing Address of Present Owner: 901 N. 9th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☒ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	11.17	1 sack	

6. Comments

Monitoring well was buried during adjacent backfilling; casing was located and pulled.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification
Andrea Lorenz, P.E.	n/a	Received (mm/dd/yyyy) 07/20/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233	Andrea Slorenz	07/20/2020

DNR Use Only

Date	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-27S

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1762 N	☒ DD	☐ GPS008
-88.0396 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ NE	¼ NW	Section	Township	Range
or Gov't Lot #		08	08 N	21 ☒ E ☐ W

Well Street Address: 9633 W. Brown Deer Road

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Register of Deeds

Present Well Owner: same

Mailing Address of Present Owner: 901 N. 9th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/29/1994

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.86	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	14.86

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	unknown

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	0.5		
well obstructed				

6. Comments

Monitoring well obstructed at 0.5 feet bgs

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murphy	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

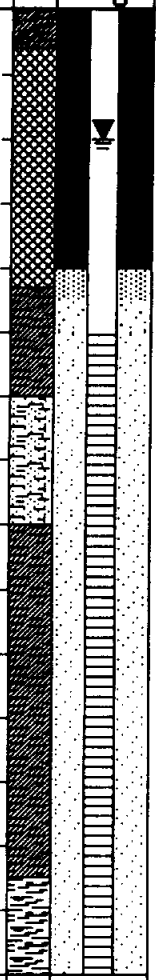
GEOLOGIC DRILL LOG

PROJECT NAME AND LOCATION	PAGE NO.	HOLE NO.
Kerr-McGee Moss-American Site, Milwaukee, WI	1 of 1	MW-27S

START	FINISH	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH
8/29/94	8/29/94	MES	4.25" ID HSA	8"	2"	15.00'

LOGGER	TOP of CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED
B. Sedgwick			2.00'/' 8/31/94

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV	DEPTH	CLASS-IFICATION	DESCRIPTION	Hnu readings (in units)
							BZ: Breathing Zone BH: Borehole SP: Sample HS: Headspace	
1	SS	12	5 2 9 8		1	ml	**CLAYEY SILT**: loam topsoil; some organics; moderate plasticity; moist; black	
							Slag-like material; hard; pumice texture; oxidized; wet; brown-black	SP = 2.9
2	SS	3	5 2 4 5		2	fill	Slag as above	SP = 2
3	SS	14	5 2 3 4		4		As above	SP = 2.8
					5	ch	**SILTY CLAY**: moderate plasticity; moderately stiff, Cu = 0.75tsf; wet; gray	
4	SS	8	2 4 3 3		6	sp	More soft; some medium sand; some medium pebbles; saturated; lighter gray	SP = 0.8
					7		**SILTY SAND**: fine to medium sand; moderately well sorted; loose; saturated; brown	
5	SS	20	2 4 3 5		8	ch	**SILTY CLAY**: moderate plasticity; gummy; soft, Cu = 0.5tsf; saturated; gray	SP = 0
					9			
6	SS	18	3 3 3 5		10	ch	As above; more stiff, Cu = 1.5tsf	SP = 0
					11		Cu = 2.25tsf	
7	SS	20	10 5 5 12		12	ch	As above; less stiff, Cu = 0.5tsf	SP = 0
					13			
					14	ml	**SILT**: very low plasticity; stiff; varved; Cu = 1.25tsf; saturated; gray	SP = 0
					15		End of Boring at 15'.	



*ASTM D1586
SS = SPLIT SPOON ST = SHELBY TUBE
D = DENNISON C = CORE CS = CONTINUOUS SAMPLER
CT = CUTTINGS BA = BUCKET AUG.

Kerr-McGee Moss-American Site
Milwaukee, WI

PAGE NO. 1 of 1 HOLE NO. MW-27S

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-34S-N

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1762 N	☒ DD	☐ GPS008
-88.0396 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ NE	¼ NW	Section	Township	Range
or Gov't Lot #		08	08 N	21 ☒ E ☐ W

Well Street Address: 9633 W. Brown Deer Road

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/28/2013

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.49	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	15.49

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	unknown

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Register of Deeds

Present Well Owner: same

Mailing Address of Present Owner: 901 N. 9th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☑ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	4.00		
well obstructed				

6. Comments

Monitoring well obstructed at 4.0 feet bgs

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
8716 N. Grandville Road	-	MW-34S-N

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Brian GESTRA	3/28/2013	3/28/2013	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN622		MW-34S-N	Feet MSL	Feet MSL	8.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 8, T 8 N, R 21 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 11	3 2 1 1	1	TOPSOIL and grass, dk brown, very dense, moist, partially frozen	ML									
				SILT, lt and dk brown, soft, moist to wet	ML			0						
2 SS	24 0	1 WOH	2											
			3											
3 SS	24 4	1 WOH	4											
			5	SILT with slight CLAY, med grey/brown, very soft, wet	CL-MI			0						
4 SS	24 7	4 3 4 5	6	Water at approx. 5-7'				0						
			7	SILT with trace small gravel, med grey, slightly dense, wet										
5 SS	24 20	3 4 WOH	8	lt brown/grey				0						
			9		ML									
6 SS	24 16	3 4 4 8	10	lt grey				0						
			11	no gravel										
7 SS	24 19	3 3 6 10	12					0						
			13	COARSE SAND, loose, wet	SP									
				SILT with trace small gravel, med grey/brown/red, med dense, wet	ML									
			14	End of boring at 14'. Monitoring well MW-34S-N installed with bottom of casing at 13'.										

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

Signature	Firm	Tel: 414-643-4200
S Oszuscik	Sigma Environmental Services, Inc. 1300 W. Canal St Milwaukee, WI 53233	Fax: 414-643-4210

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

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: 8716 N. Grandville Road	Local Grid Location of Well: ☐ N. ☐ S. ____ ft. ☐ E. ☐ W. ____ ft.	Well Name: MW-34S-N
Facility License, Permit or Monitoring No.: -	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VN622 / DNR Well Number:
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 03/28/2013
Type of Well: Well Code 11/mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 8, T. 8 N, R. 21 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): Brian GESTRA
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or 1.0 ft.

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

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
____ Other ☐ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top ____ ft. MSL or 0.0 ft.

F. Fine sand, top ____ ft. MSL or 1.0 ft.

G. Filter pack, top ____ ft. MSL or 2.0 ft.

H. Screen joint, top ____ ft. MSL or 3.0 ft.

I. Well bottom ____ ft. MSL or 13.0 ft.

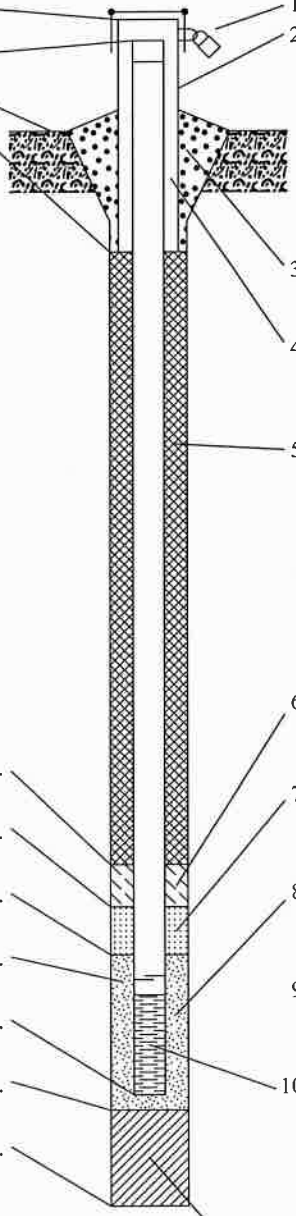
J. Filter pack, bottom ____ ft. MSL or 13.0 ft.

K. Borehole, bottom ____ ft. MSL or 14.0 ft.

L. Borehole, diameter 8.3 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 4.0 ft.
c. Material: Steel ☒ 0 4
____ Other ☐ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0
Concrete ☐ 0 1
____ Other ☐ __
4. Material between well casing and protective pipe:
Bentonite ☒ 3 0
____ Other ☐ __
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. #4000 __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #5 __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ __

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

Signature	Firm	
S Oswald	Sigma Environmental Services, Inc. 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 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.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee	_ _ _ _ _	PZ-07

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1762 N	☒ DD	☐ GPS008
-88.0396 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ NW or Gov't Lot #	¼ NW	Section	Township	Range
		08	08 N	21 ☒ E ☐ W

Well Street Address: 8716 N. Granville Road

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable _ _

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
unknown	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	unknown

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	unknown

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: C&NW Transportation Co, c/o Union Pacific Railroad Company

Present Well Owner: same

Mailing Address of Present Owner: 1400 Douglas Street, Stop 1640

City of Present Owner	State	ZIP Code
Omaha	NE	68179

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	1.2		
well obstructed				

6. Comments

Monitoring well obstructed at 1.2 feet bgs

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-A

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1762 N	☒ DD	☐ GPS008
-88.0396 W	☐ DDM	☒ SCR002 ☐ OTH001

¼ / ¼ NE	¼ NW	Section	Township	Range
or Gov't Lot #		08	08 N	21 ☒ E ☐ W

Well Street Address: 9633 W. Brown Deer Road

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable ___ ___

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
11.95	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	11.95

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	1.28

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Register of Deeds

Present Well Owner: same

Mailing Address of Present Owner: 901 N. 9th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	12.00		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-B

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1685 N	☒ DD	☐ GPS008
-88.0253 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	08 N	21 ☒ E ☐ W

Well Street Address: 8001 N. 91st St.

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Register of Deeds

Present Well Owner: same

Mailing Address of Present Owner: 901 N. 9th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
11.84	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	11.84

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	1.60

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	12.00		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-C

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1654 N	☒ DD	☐ GPS008
-88.0251 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ SE	¼ SE	Section	Township	Range
or Gov't Lot #		08	08 N	21 ☒ E ☐ W

Well Street Address: 8001 N. 91st St.

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable ___ ___

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Register of Deeds

Present Well Owner: same

Mailing Address of Present Owner: 901 N. 9th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
11.67	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	11.67

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	0

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	12.00		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma- Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-E

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1575 N	☒ DD	☐ GPS008
-88.0273 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ SE	¼ NE	Section	Township	Range
or Gov't Lot #		17	08 N	21 ☒ E ☐ W

Well Street Address: 9100 W. Calumet Road

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
19.79	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	19.79

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	2.73

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Register of Deeds

Present Well Owner: same

Mailing Address of Present Owner: 901 N. 9th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	20.00		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee	_ _ _ _ _ _	MW-F

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1548 N	☒ DD	☐ GPS008
-88.0264 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ NE / ¼ SE or Gov't Lot #	Section	Township	Range
	17	08 N	21 ☒ E ☐ W

Well Street Address: 7401 N. 91st St.

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable _ _

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
18.98	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	18.98

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	1.78

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County

Present Well Owner: same

Mailing Address of Present Owner: 907 N. 10th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	19.00		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-G

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1518 N	☒ DD	☐ GPS008
-88.0258 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		17	08 N	21 ☒ E ☐ W

Well Street Address: 7401 N. 91st St.

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable ___ ___

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County

Present Well Owner: same

Mailing Address of Present Owner: 907 N. 10th Street

City of Present Owner	State	ZIP Code
Milwaukee	WI	53233

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.29	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	14.29

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	2.01 as measured in 2013

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	15.00		

6. Comments

Monitoring well flush mount cover was destroyed prior to abandonment.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Millwaukee		MW-J

Latitude / Longitude (see instructions)	Format Code	Method Code
43.1439 N	☒ DD	☐ GPS008
-88.0287 W	☐ DDM	☒ SCR002
		☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	NE	20	08 N	21 ☒ E ☐ W
or Gov't Lot #				

Well Street Address: 9201 W. Good Hope Road

Well City, Village or Town	Well ZIP Code
Milwaukee	53224

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
No longer needed	not applicable

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): unknown

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.73	1.5

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.25	14.73

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
not applicable	0.23

2. Facility / Owner Information

Facility Name: Moss American Kerr McGee

Facility ID (FID or PWS): 241378280

License/Permit/Monitoring #: BRRTS # 02-41-529585, EPA Cerlis ID WID 039052626

Original Well Owner: Milwaukee County Parks

Present Well Owner: same

Mailing Address of Present Owner: 9480 Watertown Plank Road

City of Present Owner	State	ZIP Code
Wauwatosa	WI	53226

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ 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
Bentonite	Surface	15.00		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Sigma - Michael Murray	n/a	10/13/2020

Street or Route	Telephone Number
The Sigma Group, Inc., 1300 W. Canal Street	(414) 643-4200

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53233		10/13/2020

DNR Use Only

Date Received	Noted By

Comments:

ATTACHMENT 3

LABORATORY REPORTS

Synergy Environmental Lab, INC

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

ANDREA LORENZ
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *21-Oct-20*

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621A
Sample ID PZ-04
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	0.0166 "J"	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	0.019 "J"	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	0.041 "J"	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621B
Sample ID PZ-05
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	0.0244 "J"	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	0.0249 "J"	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	0.0081 "J"	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	0.0208 "J"	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	0.047 "J"	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	0.0236 "J"	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	0.0174 "J"	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621C
Sample ID MW-9S
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.022 "J"	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.0128 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.0093 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.0146 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621D
Sample ID MW-37S
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	0.033 "J"	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621E
Sample ID TG5-1
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	2.67	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.061	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.0124 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.0084 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.0125 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621F
Sample ID TG5-2
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	0.051	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	0.062	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	0.176	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.037 "J"	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	0.05 "J"	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	0.074	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	0.075	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	0.0216 "J"	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	0.032 "J"	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	0.0181 "J"	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	0.146	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	0.0094 "J"	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	0.04	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	0.0245 "J"	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	0.042 "J"	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	0.0259 "J"	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	0.143	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621G
Sample ID TG5-3
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.074	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.0224 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.0257 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621H
Sample ID TG6-1
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	0.52	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.034 "J"	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.0194 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.033	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.0155 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621I
Sample ID TG6-2
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	0.0172 "J"	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.051	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.0258 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	0.019 "J"	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.088	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.0098 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	0.0299 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.088	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621J
Sample ID TG6-3
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.048 "J"	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.053	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.042	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621K
Sample ID PZ-01
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/19/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/19/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/19/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/19/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/19/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.0104 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	0.0144 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621L
Sample ID MW-35S
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	3.70	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	0.051	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	0.169	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.048 "J"	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	0.0209 "J"	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	0.0235 "J"	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	0.40	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	0.234	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	0.0205 "J"	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	0.0196 "J"	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	0.059 "J"	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	0.0242 "J"	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	0.264	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621M
Sample ID TG3-1
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	0.291	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	0.0176 "J"	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.111	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.0205 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.045	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.061	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	0.017 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.037 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621N
Sample ID TG3-2
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	0.188	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	0.0164 "J"	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.083	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	0.0202 "J"	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	0.0315 "J"	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	0.017 "J"	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	0.0177 "J"	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.052	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.0149 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	0.0166 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.046	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621O
Sample ID TG3-3
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	0.38	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	0.0196 "J"	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.13	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.0257 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	0.0225 "J"	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	0.04 "J"	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	0.0229 "J"	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	0.0242 "J"	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.102	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.0283	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	0.0141 "J"	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	0.126	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.083	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621P
Sample ID TG4-1
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	0.104	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	0.0097 "J"	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	0.034 "J"	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621Q
Sample ID TG4-2
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	0.223	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	0.14	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.04 "J"	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	0.034 "J"	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	0.0267 "J"	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	0.164	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	0.011 "J"	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	0.063	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	0.138	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621R
Sample ID TG4-3
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.098	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.0185 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.0185 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621S
Sample ID PZ-06
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.0221 "J"	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.0098 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621T
Sample ID PZ-09R
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/16/2020	CJR	1
Toluene	0.55 "J"	ug/l	0.26	0.83	1	8260B		10/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/16/2020	CJR	1
PAH SIM										
Acenaphthene	18.5	ug/l	0.094	0.3	10	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	0.52	ug/l	0.156	0.495	10	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.3 "J"	ug/l	0.15	0.478	10	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.32 "J"	ug/l	0.2	0.67	10	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.167	ug/l	0.167	0.531	10	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	0.192 "J"	ug/l	0.16	0.509	10	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.142	ug/l	0.142	0.451	10	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.146	ug/l	0.146	0.463	10	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	0.37 "J"	ug/l	0.157	0.499	10	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.173	ug/l	0.173	0.549	10	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	1.82	ug/l	0.088	0.281	10	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.51	ug/l	0.079	0.251	10	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.121	ug/l	0.121	0.385	10	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.191	ug/l	0.191	0.609	10	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.186	ug/l	0.186	0.59	10	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.3	ug/l	0.3	1	10	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.143	ug/l	0.143	0.456	10	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.70	ug/l	0.121	0.386	10	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621U
Sample ID PZ10
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	4.00	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	0.042 "J"	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	0.158	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	0.035 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	0.027 "J"	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	0.0247 "J"	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	0.101	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	0.88	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	0.088	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	0.039 "J"	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	0.039 "J"	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	0.068	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	0.077	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621V
Sample ID MW-30S
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/16/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	0.147	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	0.0145 "J"	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	0.0167 "J"	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	0.0155 "J"	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621W
Sample ID MW-31SR
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/16/2020	CJR	1
Toluene	0.49 "J"	ug/l	0.26	0.83	1	8260B		10/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/16/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/16/2020	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/16/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621X
Sample ID TG2-2
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/16/2020	CJR	1
PAH SIM										
Acenaphthene	0.094	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.075	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	0.0212 "J"	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.044	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.0177 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.041	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621Y
Sample ID TG2-3
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/16/2020	CJR	1
PAH SIM										
Acenaphthene	0.0097 "J"	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.033 "J"	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.0192 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.0161 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 5038621Z
Sample ID TG1-1R
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/16/2020	CJR	1
PAH SIM										
Acenaphthene	0.52	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.124	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.0205 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.42	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.054	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	0.0253 "J"	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	0.065	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.253	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621AA
Sample ID TG1-2
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/16/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/16/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/16/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/16/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/16/2020	CJR	1
PAH SIM										
Acenaphthene	26.2	ug/l	0.047	0.15	5	M8270C	10/16/2020	10/19/2020	NJC	1
Acenaphthylene	0.194 "J"	ug/l	0.078	0.2475	5	M8270C	10/16/2020	10/19/2020	NJC	1
Anthracene	0.301	ug/l	0.075	0.239	5	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)anthracene	0.129 "J"	ug/l	0.1	0.335	5	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)pyrene	< 0.0835	ug/l	0.0835	0.2655	5	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(b)fluoranthene	< 0.08	ug/l	0.08	0.2545	5	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(g,h,i)perylene	< 0.071	ug/l	0.071	0.2255	5	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(k)fluoranthene	< 0.073	ug/l	0.073	0.2315	5	M8270C	10/16/2020	10/19/2020	NJC	1
Chrysene	0.089 "J"	ug/l	0.0785	0.2495	5	M8270C	10/16/2020	10/19/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0865	ug/l	0.0865	0.2745	5	M8270C	10/16/2020	10/19/2020	NJC	1
Fluoranthene	1.10	ug/l	0.044	0.1405	5	M8270C	10/16/2020	10/19/2020	NJC	1
Fluorene	4.40	ug/l	0.0395	0.1255	5	M8270C	10/16/2020	10/19/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0605	ug/l	0.0605	0.1925	5	M8270C	10/16/2020	10/19/2020	NJC	1
1-Methyl naphthalene	0.163 "J"	ug/l	0.0955	0.3045	5	M8270C	10/16/2020	10/19/2020	NJC	1
2-Methyl naphthalene	< 0.093	ug/l	0.093	0.295	5	M8270C	10/16/2020	10/19/2020	NJC	1
Naphthalene	< 0.15	ug/l	0.15	0.5	5	M8270C	10/16/2020	10/19/2020	NJC	1
Phenanthrene	0.084 "J"	ug/l	0.0715	0.228	5	M8270C	10/16/2020	10/19/2020	NJC	1
Pyrene	0.68	ug/l	0.0605	0.193	5	M8270C	10/16/2020	10/19/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621BB
Sample ID TG1-3
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	2.21	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	0.0178 "J"	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.074	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.081	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.145	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	0.018 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.053	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621CC
Sample ID PZ-02
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	169	ug/l	0.188	0.6	20	M8270C	10/16/2020	10/19/2020	NJC	1
Acenaphthylene	6.10	ug/l	0.312	0.99	20	M8270C	10/16/2020	10/19/2020	NJC	1
Anthracene	1.20	ug/l	0.3	0.956	20	M8270C	10/16/2020	10/19/2020	NJC	3 64
Benzo(a)anthracene	0.89 "J"	ug/l	0.4	1.34	20	M8270C	10/16/2020	10/19/2020	NJC	3 64
Benzo(a)pyrene	0.37 "J"	ug/l	0.334	1.062	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(b)fluoranthene	0.69 "J"	ug/l	0.32	1.018	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(g,h,i)perylene	< 0.284	ug/l	0.284	0.902	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(k)fluoranthene	< 0.292	ug/l	0.292	0.926	20	M8270C	10/16/2020	10/19/2020	NJC	3 64
Chrysene	0.63 "J"	ug/l	0.314	0.998	20	M8270C	10/16/2020	10/19/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.346	ug/l	0.346	1.098	20	M8270C	10/16/2020	10/19/2020	NJC	1
Fluoranthene	1.62	ug/l	0.176	0.562	20	M8270C	10/16/2020	10/19/2020	NJC	1
Fluorene	48.0	ug/l	0.158	0.502	20	M8270C	10/16/2020	10/19/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.242	ug/l	0.242	0.77	20	M8270C	10/16/2020	10/19/2020	NJC	1
1-Methyl naphthalene	33.0	ug/l	0.382	1.218	20	M8270C	10/16/2020	10/19/2020	NJC	2 3 75
2-Methyl naphthalene	35.0	ug/l	0.372	1.18	20	M8270C	10/16/2020	10/19/2020	NJC	2 3 75
Naphthalene	20.5	ug/l	0.6	2	20	M8270C	10/16/2020	10/19/2020	NJC	2 75
Phenanthrene	6.00	ug/l	0.286	0.912	20	M8270C	10/16/2020	10/19/2020	NJC	1
Pyrene	2.23	ug/l	0.242	0.772	20	M8270C	10/16/2020	10/19/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621DD
Sample ID PZ-03
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	1.27	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	1.53	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	0.47 "J"	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	8.2	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	12.2	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	131	ug/l	0.188	0.6	20	M8270C	10/16/2020	10/19/2020	NJC	1
Acenaphthylene	5.70	ug/l	0.312	0.99	20	M8270C	10/16/2020	10/19/2020	NJC	1
Anthracene	0.64 "J"	ug/l	0.3	0.956	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)anthracene	1.28 "J"	ug/l	0.4	1.34	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)pyrene	0.38 "J"	ug/l	0.334	1.062	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(b)fluoranthene	1.22	ug/l	0.32	1.018	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(g,h,i)perylene	0.49 "J"	ug/l	0.284	0.902	20	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(k)fluoranthene	0.70 "J"	ug/l	0.292	0.926	20	M8270C	10/16/2020	10/19/2020	NJC	1
Chrysene	0.85 "J"	ug/l	0.314	0.998	20	M8270C	10/16/2020	10/19/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.346	ug/l	0.346	1.098	20	M8270C	10/16/2020	10/19/2020	NJC	1
Fluoranthene	1.64	ug/l	0.176	0.562	20	M8270C	10/16/2020	10/19/2020	NJC	1
Fluorene	34.0	ug/l	0.158	0.502	20	M8270C	10/16/2020	10/19/2020	NJC	1
Indeno(1,2,3-cd)pyrene	0.48 "J"	ug/l	0.242	0.77	20	M8270C	10/16/2020	10/19/2020	NJC	1
1-Methyl naphthalene	21.6	ug/l	0.382	1.218	20	M8270C	10/16/2020	10/19/2020	NJC	1
2-Methyl naphthalene	11.2	ug/l	0.372	1.18	20	M8270C	10/16/2020	10/19/2020	NJC	1
Naphthalene	4.90	ug/l	0.6	2	20	M8270C	10/16/2020	10/19/2020	NJC	1
Phenanthrene	3.70	ug/l	0.286	0.912	20	M8270C	10/16/2020	10/19/2020	NJC	1
Pyrene	1.90	ug/l	0.242	0.772	20	M8270C	10/16/2020	10/19/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621EE
Sample ID MW-5S
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	10/15/2020	10/16/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/15/2020	10/16/2020	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/15/2020	10/16/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/15/2020	10/16/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/15/2020	10/16/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	10/15/2020	10/16/2020	NJC	1
Fluorene	< 0.0079	ug/l	0.0079	0.0251	1	M8270C	10/15/2020	10/16/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/15/2020	10/16/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/15/2020	10/16/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/15/2020	10/16/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/15/2020	10/16/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/15/2020	10/16/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/15/2020	10/16/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621FF
Sample ID MW-7S
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	2.64	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	0.085	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.13	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.096	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	0.065	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	0.023 "J"	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	0.047	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	0.048 "J"	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	0.0223 "J"	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.046	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.174	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	0.0211 "J"	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	2.09	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	0.033 "J"	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	0.141	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	0.042 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.047	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621GG
Sample ID MW-7S-WR
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	0.069	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.072	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.056 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	0.055	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	0.033 "J"	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	0.04 "J"	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	0.05	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	0.0205 "J"	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.163	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.0116 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	0.029 "J"	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	0.034 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.177	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621HH
Sample ID MW-32SR
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	0.175	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.071	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.0187 "J"	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.052	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.0141 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621II
Sample ID MW-33S
Sample Matrix Water
Sample Date 10/8/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	0.34 "J"	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	1.33 "J"	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	1.13 "J"	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	107	ug/l	0.47	1.5	50	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	1.12 "J"	ug/l	0.78	2.475	50	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	1.99 "J"	ug/l	0.75	2.39	50	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	< 1.00	ug/l	1	3.35	50	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.835	ug/l	0.835	2.655	50	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.80	ug/l	0.8	2.545	50	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.71	ug/l	0.71	2.255	50	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.73	ug/l	0.73	2.315	50	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.785	ug/l	0.785	2.495	50	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.865	ug/l	0.865	2.745	50	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	< 0.44	ug/l	0.44	1.405	50	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	53.0	ug/l	0.395	1.255	50	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.605	ug/l	0.605	1.925	50	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	27.3	ug/l	0.955	3.045	50	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	16.2	ug/l	0.93	2.95	50	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	199	ug/l	1.5	5	50	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	14.3	ug/l	0.715	2.28	50	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	< 0.605	ug/l	0.605	1.93	50	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621JJ
Sample ID MW-34SR
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	4.80	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	0.036 "J"	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.41	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.034 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	0.0226 "J"	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	0.0229 "J"	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.227	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	3.40	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	1.94	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	1.01	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	2.80	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.123	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621KK
Sample ID MW-38S
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	0.36 "J"	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	3.20	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	0.104	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.141	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.0213 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.019 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	2.97	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	0.231	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	0.0293 "J"	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621LL
Sample ID MW-39S
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	35.0	ug/l	0.094	0.3	10	M8270C	10/16/2020	10/19/2020	NJC	1
Acenaphthylene	0.16 "J"	ug/l	0.156	0.495	10	M8270C	10/16/2020	10/19/2020	NJC	1
Anthracene	< 0.15	ug/l	0.15	0.478	10	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)anthracene	< 0.20	ug/l	0.2	0.67	10	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)pyrene	< 0.167	ug/l	0.167	0.531	10	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(b)fluoranthene	< 0.16	ug/l	0.16	0.509	10	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(g,h,i)perylene	< 0.142	ug/l	0.142	0.451	10	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(k)fluoranthene	< 0.146	ug/l	0.146	0.463	10	M8270C	10/16/2020	10/19/2020	NJC	1
Chrysene	< 0.157	ug/l	0.157	0.499	10	M8270C	10/16/2020	10/19/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.173	ug/l	0.173	0.549	10	M8270C	10/16/2020	10/19/2020	NJC	1
Fluoranthene	0.121 "J"	ug/l	0.088	0.281	10	M8270C	10/16/2020	10/19/2020	NJC	1
Fluorene	1.83	ug/l	0.079	0.251	10	M8270C	10/16/2020	10/19/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.121	ug/l	0.121	0.385	10	M8270C	10/16/2020	10/19/2020	NJC	1
1-Methyl naphthalene	< 0.191	ug/l	0.191	0.609	10	M8270C	10/16/2020	10/19/2020	NJC	1
2-Methyl naphthalene	< 0.186	ug/l	0.186	0.59	10	M8270C	10/16/2020	10/19/2020	NJC	1
Naphthalene	< 0.30	ug/l	0.3	1	10	M8270C	10/16/2020	10/19/2020	NJC	1
Phenanthrene	< 0.143	ug/l	0.143	0.456	10	M8270C	10/16/2020	10/19/2020	NJC	1
Pyrene	< 0.121	ug/l	0.121	0.386	10	M8270C	10/16/2020	10/19/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621MM
Sample ID MW-H
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	0.61 "J"	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	0.0155 "J"	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	< 0.0088	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.0121 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	< 0.0121	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621NN
Sample ID DUP-1
Sample Matrix Water
Sample Date 10/6/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/17/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/17/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/17/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/17/2020	CJR	1
PAH SIM										
Acenaphthene	0.102	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	0.05	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.16	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.076	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	0.117	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	0.178	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	0.115	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	0.049	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	0.085	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	0.0311 "J"	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.205	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.033	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	0.073	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	0.082	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.195	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621OO
Sample ID DUP-2
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	0.244	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	0.0161 "J"	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.132	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.0232 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	0.0212 "J"	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	0.0179 "J"	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	0.0164 "J"	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.044	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.049	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	0.0157 "J"	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.036 "J"	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621PP
Sample ID DUP-3
Sample Matrix Water
Sample Date 10/7/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1
PAH SIM										
Acenaphthene	0.0222 "J"	ug/l	0.0094	0.03	1	M8270C	10/16/2020	10/17/2020	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	10/16/2020	10/17/2020	NJC	1
Anthracene	0.062	ug/l	0.015	0.0478	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)anthracene	0.0201 "J"	ug/l	0.02	0.067	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	10/16/2020	10/17/2020	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	10/16/2020	10/17/2020	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	10/16/2020	10/17/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluoranthene	0.062	ug/l	0.0088	0.0281	1	M8270C	10/16/2020	10/17/2020	NJC	1
Fluorene	0.0155 "J"	ug/l	0.0079	0.0251	1	M8270C	10/16/2020	10/17/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	10/16/2020	10/17/2020	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	10/16/2020	10/17/2020	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	10/16/2020	10/17/2020	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	10/16/2020	10/17/2020	NJC	1
Phenanthrene	< 0.0143	ug/l	0.0143	0.0456	1	M8270C	10/16/2020	10/17/2020	NJC	1
Pyrene	0.069	ug/l	0.0121	0.0386	1	M8270C	10/16/2020	10/17/2020	NJC	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621QQ
Sample ID DUP-4
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	1.11	ug/l	0.33	1	1	8260B		10/21/2020	CJR	1
Ethylbenzene	1.39	ug/l	0.32	1	1	8260B		10/21/2020	CJR	1
Toluene	0.61 "J"	ug/l	0.26	0.83	1	8260B		10/21/2020	CJR	1
m&p-Xylene	7.8	ug/l	1.1	3.3	1	8260B		10/21/2020	CJR	1
o-Xylene	11.9	ug/l	0.38	1.2	1	8260B		10/21/2020	CJR	1
PAH SIM										
Acenaphthene	171	ug/l	0.47	1.5	50	M8270C	10/16/2020	10/19/2020	NJC	1
Acenaphthylene	7.10	ug/l	0.78	2.475	50	M8270C	10/16/2020	10/19/2020	NJC	1
Anthracene	< 0.75	ug/l	0.75	2.39	50	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)anthracene	< 1.00	ug/l	1	3.35	50	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(a)pyrene	< 0.835	ug/l	0.835	2.655	50	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(b)fluoranthene	< 0.8	ug/l	0.8	2.545	50	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(g,h,i)perylene	< 0.71	ug/l	0.71	2.255	50	M8270C	10/16/2020	10/19/2020	NJC	1
Benzo(k)fluoranthene	< 0.73	ug/l	0.73	2.315	50	M8270C	10/16/2020	10/19/2020	NJC	1
Chrysene	< 0.785	ug/l	0.785	2.495	50	M8270C	10/16/2020	10/19/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.865	ug/l	0.865	2.745	50	M8270C	10/16/2020	10/19/2020	NJC	1
Fluoranthene	< 0.44	ug/l	0.44	1.405	50	M8270C	10/16/2020	10/19/2020	NJC	1
Fluorene	48.0	ug/l	0.395	1.255	50	M8270C	10/16/2020	10/19/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.605	ug/l	0.605	1.925	50	M8270C	10/16/2020	10/19/2020	NJC	1
1-Methyl naphthalene	26.9	ug/l	0.955	3.045	50	M8270C	10/16/2020	10/19/2020	NJC	1
2-Methyl naphthalene	1.88 "J"	ug/l	0.93	2.95	50	M8270C	10/16/2020	10/19/2020	NJC	1
Naphthalene	9.40	ug/l	1.5	5	50	M8270C	10/16/2020	10/19/2020	NJC	1
Phenanthrene	0.90 "J"	ug/l	0.715	2.28	50	M8270C	10/16/2020	10/19/2020	NJC	1
Pyrene	< 0.605	ug/l	0.605	1.93	50	M8270C	10/16/2020	10/19/2020	NJC	1

Lab Code 538621RR
Sample ID EQUIP BLK
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	CJR	1

Project Name MOSS AMERICAN **Invoice #** E38621
Project # 18687

Lab Code 538621SS
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 10/9/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
BTEX										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		10/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		10/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		10/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		10/20/2020	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.
2	Relative percent difference failed for laboratory spiked samples.
3	The matrix spike not within established limits.
64	Spike recovery failed due to matrix interference.
75	RPD failed due to matrix interference.

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

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 38996

Page 1 of 4

Sample Handling Request
___ Rush Analysis Date Required: ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
QUOTE # :
Project #: 18687
Sampler: (signature)
Project (Name / Location): Moss-American Milwaukee, WI

Reports To: Andrea Lorenz	Invoice To:
Company The Sigma Group	Company
Address 1300 W. Canal St.	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4200	Phone
Email alorenz@thesigmagroup.com	Email

SAME

Lab I.D.	Sample I.D.	Collection Date	Collection Time	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)	VOC AIR (TO - 15)	8-RCRA METALS	BTEX						PID/ FID
503862 A	PZ-04	10/8	0830	N	4	GW	HCl						X										X						
B	PZ-05	10/8	0830	N	4	GW	HCl						X										X						
C	MW-9S	10/7	1000	N	4	GW	HCl						X										X						
D	MW-37S	10/8	0845	N	4	GW	HCl						X										X						
E	TG5-1	10/7	1015	N	4	GW	HCl						X										X						
F	TG5-2	10/8	1000	N	4	GW	HCl						X										X						
G	TG5-3	10/7	1015	N	4	GW	HCl						X										X						
H	TG6-1	10/7	0915	N	4	GW	HCl						X										X						
I	TG6-2	10/7	0930	N	4	GW	HCl						X										X						
J	TG6-3	10/7	0930	N	4	GW	HCl						X										X						
K	PZ-01	10/9	0930	N	4	GW	HCl						X										X						
L	MW-35S	10/8	0900	N	4	GW	HCl						X										X						

Analysis Requested | Other Analysis

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: Courier
Temp. of Temp. Blank: ____ °C On Ice: A
Cooler seal intact upon receipt: A Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1145	10/9			

Received in Laboratory By: Time: 1040 Date: 10/14/20

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 38997

Sample Handling Request
___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
QUOTE # :
Project #: 18687
Sampler: (signature)

Project (Name / Location): Moss-American Milwaukee, WI

Reports To: Andrea Lorenz	Invoice To:
Company The Sigma Group	Company
Address 300 W. Canal St.	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4200	Phone
Email alorenz@thesigmagroup.com	Email

SAME

Lab I.D.	Sample I.D.	Collection Date	Collection Time	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)	VOC AIR (TO - 15)	8-RCRA METALS	BTEX	PID/ FID
5038621 M	TG3-1	10/7	0845	N	4	GW	HCl						X										X	
N	TG3-2	10/7	0845	N	4	GW	HCl						X										X	
O	TG3-3	10/7	0900	N	4	GW	HCl						X										X	
P	TG4-1	10/8	0915	N	4	GW	HCl						X										X	
Q	TG4-2	10/8	0915	N	4	GW	HCl						X										X	
R	TG4-3	10/7	1000	N	4	GW	HCl						X										X	
S	PZ-06	10/9	0945	N	4	GW	HCl						X										X	
T	PZ-09R	10/6	0940	N	4	GW	HCl						X										X	
U	PZ10	10/9	0830	N	4	GW	HCl						X										X	
V	MW-30S	10/8	0840	N	4	GW	HCl						X										X	
W	MW-31SR	10/9	0945	N	4	GW	HCl						X										X	
X	TG2-2	10/6	1000	N	4	GW	HCl						X										X	

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: Courier
Temp. of Temp. Blank: ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1145	10/9			

Received in Laboratory By: Time: 10:00 Date: 10/14/20

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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1990 Prospect Ct. • Appleton, WI 54914
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Chain # No 38998

Page 3 of 4

Sample Handling Request

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

Lab I.D. #

QUOTE # :

Project #: 18687

Sampler: (signature)

Project (Name / Location): Moss-American Milwaukee, WI

Reports To: Andrea Lorenz	Invoice To:
Company The Sigma Grap	Company
Address 1300 W. Canal St.	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4200	Phone
Email alorenz@thesigmagroup.com	Email

SAME

Lab I.D.	Sample I.D.	Collection Date	Collection Time	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)	VOC AIR (TO - 15)	8-RCRA METALS	BTEX	PID/ FID
50386Z	TG2-3	10/6	1000	N	4	GW	HCl						X										X	
Z	TG1-1R	10/6	0940	N	4	GW	HCl						X										X	
AA	TG1-2	10/6	0926	N	4	GW	HCl						X										X	
BB	TG1-3	10/6	0920	N	4	GW	HCl						X										X	
CC	PZ-02	10/9	0900	N	4	GW	HCl						X										X	
DD	PZ-03	10/9	0900	N	4	GW	HCl						X										X	
EE	MW-5S	10/8	1000	N	4	GW	HCl						X										X	
FF	MW-7S	10/9	0915	N	4	GW	HCl						X										X	
GG	MW-7S-WR	10/6	0840	N	4	GW	HCl						X										X	
HH	MW-32SR	10/6	0840	N	4	GW	HCl						X										X	
II	MW-33S	10/8	0945	N	4	GW	HCl						X										X	
JJ	MW-34SR	10/6	0900	N	4	GW	HCl						X										X	

Analysis Requested | Other Analysis

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: Courier

Temp. of Temp. Blank: _____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1145	10/9			

Received in Laboratory By: Time: 10:00 Date: 10/14/20

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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Chain # No 38999

Page 4 of 4

Sample Handling Request
___ Rush Analysis Date Required: ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
QUOTE # :
Project #: 18687
Sampler: (signature)

Project (Name / Location): Moss-American Milwaukee, WI

Reports To: Andrea Lorenz	Invoice To:
Company The Sigma Group	Company
Address 1300 W. Canal St.	Address
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4200	Phone
Email alorenz@thesigmagroup.com	Email

SAME

Lab I.D.	Sample I.D.	Collection Date	Collection Time	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)	VOC AIR (TO - 15)	8-RCRA METALS	BTEX	PID/ FID
538621 KK	MW-38S	10/9	0915	N	4	GW	HCl						X										X	
LL	MW-39S	10/6	0900	N	4	GW	HCl						X										X	
MM	MW-H	10/9	1000	N	4	GW	HCl						X										X	
NN	Dup-1	10/6	—	N	4	GW	HCl						X										X	
OO	Dup-2	10/7	—	N	4	GW	HCl						X										X	
PP	Dup-3	10/7	—	N	4	GW	HCl						X										X	
QQ	Dup-4	10/9	—	N	4	GW	HCl						X										X	
RR	Equipment Blank	—	—	N	8*	—	HCl																X	
SS	Trip Blank	—	—	—	2	—	HCl																X	
	Matrix Spike	10/9	—	N	2	GW	—						X											

Analysis Requested **Other Analysis**

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

* 4 sets of 2 Equipment Blanks (8 total)

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1145	10/9			

Received in Laboratory By: Time: 10:00 Date: 10/14/2

Synergy Environmental Lab, INC

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

ANDREA LORENZ
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *04-Nov-20*

Project Name MOSS-AMERICAN **Invoice #** E38702
Project # 18687

Lab Code 5038702A
Sample ID PZ-02
Sample Matrix Water
Sample Date 10/29/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	142	ug/l	0.47	1.5	50	M8270C	11/2/2020	11/3/2020	NJC	1
Acenaphthylene	1.56 "J"	ug/l	0.78	2.475	50	M8270C	11/2/2020	11/3/2020	NJC	1
Anthracene	< 0.75	ug/l	0.75	2.39	50	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(a)anthracene	< 1.00	ug/l	1	3.35	50	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(a)pyrene	< 0.835	ug/l	0.835	2.655	50	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(b)fluoranthene	< 0.80	ug/l	0.8	2.545	50	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(g,h,i)perylene	< 0.71	ug/l	0.71	2.255	50	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(k)fluoranthene	< 0.73	ug/l	0.73	2.315	50	M8270C	11/2/2020	11/3/2020	NJC	1
Chrysene	< 0.785	ug/l	0.785	2.495	50	M8270C	11/2/2020	11/3/2020	NJC	1
Dibenzo(a,h)anthracene	< 0.865	ug/l	0.865	2.745	50	M8270C	11/2/2020	11/3/2020	NJC	1
Fluoranthene	< 0.44	ug/l	0.44	1.405	50	M8270C	11/2/2020	11/3/2020	NJC	1
Fluorene	50.0	ug/l	0.395	1.255	50	M8270C	11/2/2020	11/3/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.605	ug/l	0.605	1.925	50	M8270C	11/2/2020	11/3/2020	NJC	1
1-Methyl naphthalene	3.30	ug/l	0.955	3.045	50	M8270C	11/2/2020	11/3/2020	NJC	1
2-Methyl naphthalene	< 0.93	ug/l	0.93	2.95	50	M8270C	11/2/2020	11/3/2020	NJC	1
Naphthalene	28.8	ug/l	1.5	5	50	M8270C	11/2/2020	11/3/2020	NJC	1
Phenanthrene	< 0.715	ug/l	0.715	2.28	50	M8270C	11/2/2020	11/3/2020	NJC	1
Pyrene	< 0.605	ug/l	0.605	1.93	50	M8270C	11/2/2020	11/3/2020	NJC	1

Project Name MOSS-AMERICAN **Invoice #** E38702
Project # 18687

Lab Code 5038702B
Sample ID PZ-03
Sample Matrix Water
Sample Date 10/29/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	191	ug/l	4.7	15	500	M8270C	11/2/2020	11/3/2020	NJC	1
Acenaphthylene	< 7.80	ug/l	7.8	24.75	500	M8270C	11/2/2020	11/3/2020	NJC	1
Anthracene	< 7.50	ug/l	7.5	23.9	500	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(a)anthracene	< 10.0	ug/l	10	33.5	500	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(a)pyrene	< 8.35	ug/l	8.35	26.55	500	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(b)fluoranthene	< 8.00	ug/l	8	25.45	500	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(g,h,i)perylene	< 7.10	ug/l	7.1	22.55	500	M8270C	11/2/2020	11/3/2020	NJC	1
Benzo(k)fluoranthene	< 7.30	ug/l	7.3	23.15	500	M8270C	11/2/2020	11/3/2020	NJC	1
Chrysene	< 7.85	ug/l	7.85	24.95	500	M8270C	11/2/2020	11/3/2020	NJC	1
Dibenzo(a,h)anthracene	< 8.65	ug/l	8.65	27.45	500	M8270C	11/2/2020	11/3/2020	NJC	1
Fluoranthene	< 4.40	ug/l	4.4	14.05	500	M8270C	11/2/2020	11/3/2020	NJC	1
Fluorene	62.0	ug/l	3.95	12.55	500	M8270C	11/2/2020	11/3/2020	NJC	1
Indeno(1,2,3-cd)pyrene	< 6.05	ug/l	6.05	19.25	500	M8270C	11/2/2020	11/3/2020	NJC	1
1-Methyl naphthalene	116	ug/l	9.55	30.45	500	M8270C	11/2/2020	11/3/2020	NJC	1
2-Methyl naphthalene	28.7 "J"	ug/l	9.3	29.5	500	M8270C	11/2/2020	11/3/2020	NJC	1
Naphthalene	1680	ug/l	15	50	500	M8270C	11/2/2020	11/3/2020	NJC	1
Phenanthrene	19.3 "J"	ug/l	7.15	22.8	500	M8270C	11/2/2020	11/3/2020	NJC	1
Pyrene	< 6.05	ug/l	6.05	19.3	500	M8270C	11/2/2020	11/3/2020	NJC	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

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # Nº 3503

Page 1 of 1

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #: 18687

Sampler: (signature)

Project (Name / Location): Moss-American Milwaukee, WI

Reports To: Andrea Lorenz	Invoice To:
Company The Sigma Group	Company
Address 1300 W. Canal St.	Address SAME
City State Zip Milwaukee, WI 53233	City State Zip
Phone 414-643-4200	Phone
FAX alorenz@thesigmagrp.com	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	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)	8-RCRA METALS	PID/ FID
5038702A	PZ-02	10/29	1000		X	N	1	GW	X						X									
B	PZ-03	10/29	0945		X	N	1	GW	X						X									

Analysis Requested — Other Analysis

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: GC

Temp. of Temp. Blank ___ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1400	10/29			

Received in Laboratory By: Time: 10:00 Date: 10/31/20

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 09, 2020

Andrea Lorenz
The Sigma Group
1300 W Canal St
Milwaukee, WI 53233

RE: Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Dear Andrea Lorenz:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40217676001	**PZ-02**	Water	10/29/20 10:00	11/04/20 11:10
40217676002	**PZ-03**	Water	10/29/20 09:45	11/04/20 11:10

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SAMPLE ANALYTE COUNT

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40217676001	**PZ-02**	EPA 8270 by HVI	JJB	21	PASI-G
40217676002	**PZ-03**	EPA 8270 by HVI	JJB	21	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40217676001	**PZ-02**					
EPA 8270 by HVI	Acenaphthene	110	ug/L	0.30	11/06/20 09:44	
EPA 8270 by HVI	Acenaphthylene	0.97	ug/L	0.25	11/06/20 09:44	
EPA 8270 by HVI	Anthracene	0.26J	ug/L	0.52	11/06/20 09:44	
EPA 8270 by HVI	Fluorene	38.5	ug/L	0.40	11/06/20 09:44	
EPA 8270 by HVI	1-Methylnaphthalene	2.7	ug/L	0.30	11/06/20 09:44	
EPA 8270 by HVI	Naphthalene	18.2	ug/L	0.92	11/06/20 09:44	
EPA 8270 by HVI	Total PAHs	171	ug/L		11/06/20 09:44	
40217676002	**PZ-03**					
EPA 8270 by HVI	Acenaphthene	149	ug/L	6.1	11/06/20 10:03	
EPA 8270 by HVI	Acenaphthylene	1.2J	ug/L	5.0	11/06/20 10:03	
EPA 8270 by HVI	Fluorene	44.9	ug/L	8.0	11/06/20 10:03	
EPA 8270 by HVI	1-Methylnaphthalene	102	ug/L	5.9	11/06/20 10:03	
EPA 8270 by HVI	2-Methylnaphthalene	40.2	ug/L	4.9	11/06/20 10:03	
EPA 8270 by HVI	Naphthalene	1310	ug/L	18.3	11/06/20 10:03	
EPA 8270 by HVI	Phenanthrene	12.8J	ug/L	13.8	11/06/20 10:03	
EPA 8270 by HVI	Total PAHs	1670	ug/L		11/06/20 10:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Sample: PZ-02 **Lab ID: 40217676001** Collected: 10/29/20 10:00 Received: 11/04/20 11:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**110**	ug/L	0.30	0.061	10	11/05/20 08:48	11/06/20 09:44	83-32-9	
Acenaphthylene	**0.97**	ug/L	0.25	0.050	10	11/05/20 08:48	11/06/20 09:44	208-96-8	
Anthracene	**0.26J**	ug/L	0.52	0.10	10	11/05/20 08:48	11/06/20 09:44	120-12-7	
Benzo(a)anthracene	**<0.076**	ug/L	0.38	0.076	10	11/05/20 08:48	11/06/20 09:44	56-55-3	
Benzo(a)pyrene	**<0.11**	ug/L	0.53	0.11	10	11/05/20 08:48	11/06/20 09:44	50-32-8	
Benzo(b)fluoranthene	**<0.057**	ug/L	0.29	0.057	10	11/05/20 08:48	11/06/20 09:44	205-99-2	
Benzo(g,h,i)perylene	**<0.068**	ug/L	0.34	0.068	10	11/05/20 08:48	11/06/20 09:44	191-24-2	
Benzo(k)fluoranthene	**<0.076**	ug/L	0.38	0.076	10	11/05/20 08:48	11/06/20 09:44	207-08-9	
Chrysene	**<0.13**	ug/L	0.65	0.13	10	11/05/20 08:48	11/06/20 09:44	218-01-9	
Dibenz(a,h)anthracene	**<0.10**	ug/L	0.50	0.10	10	11/05/20 08:48	11/06/20 09:44	53-70-3	
Fluoranthene	**<0.11**	ug/L	0.53	0.11	10	11/05/20 08:48	11/06/20 09:44	206-44-0	
Fluorene	**38.5**	ug/L	0.40	0.080	10	11/05/20 08:48	11/06/20 09:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.18**	ug/L	0.88	0.18	10	11/05/20 08:48	11/06/20 09:44	193-39-5	
1-Methylnaphthalene	**2.7**	ug/L	0.30	0.059	10	11/05/20 08:48	11/06/20 09:44	90-12-0	
2-Methylnaphthalene	**<0.049**	ug/L	0.24	0.049	10	11/05/20 08:48	11/06/20 09:44	91-57-6	
Naphthalene	**18.2**	ug/L	0.92	0.18	10	11/05/20 08:48	11/06/20 09:44	91-20-3	
Phenanthrene	**<0.14**	ug/L	0.69	0.14	10	11/05/20 08:48	11/06/20 09:44	85-01-8	
Pyrene	**<0.076**	ug/L	0.38	0.076	10	11/05/20 08:48	11/06/20 09:44	129-00-0	
Total PAHs	**171**	ug/L			10	11/05/20 08:48	11/06/20 09:44		
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		10	11/05/20 08:48	11/06/20 09:44	321-60-8	
Terphenyl-d14 (S)	61	%	10-159		10	11/05/20 08:48	11/06/20 09:44	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Sample: PZ-03 **Lab ID: 40217676002** Collected: 10/29/20 09:45 Received: 11/04/20 11:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**149**	ug/L	6.1	1.2	200	11/05/20 08:48	11/06/20 10:03	83-32-9	
Acenaphthylene	**1.2J**	ug/L	5.0	1.0	200	11/05/20 08:48	11/06/20 10:03	208-96-8	
Anthracene	**<2.1**	ug/L	10.4	2.1	200	11/05/20 08:48	11/06/20 10:03	120-12-7	
Benzo(a)anthracene	**<1.5**	ug/L	7.6	1.5	200	11/05/20 08:48	11/06/20 10:03	56-55-3	
Benzo(a)pyrene	**<2.1**	ug/L	10.5	2.1	200	11/05/20 08:48	11/06/20 10:03	50-32-8	
Benzo(b)fluoranthene	**<1.1**	ug/L	5.7	1.1	200	11/05/20 08:48	11/06/20 10:03	205-99-2	
Benzo(g,h,i)perylene	**<1.4**	ug/L	6.8	1.4	200	11/05/20 08:48	11/06/20 10:03	191-24-2	
Benzo(k)fluoranthene	**<1.5**	ug/L	7.5	1.5	200	11/05/20 08:48	11/06/20 10:03	207-08-9	
Chrysene	**<2.6**	ug/L	13.0	2.6	200	11/05/20 08:48	11/06/20 10:03	218-01-9	
Dibenz(a,h)anthracene	**<2.0**	ug/L	10.0	2.0	200	11/05/20 08:48	11/06/20 10:03	53-70-3	
Fluoranthene	**<2.1**	ug/L	10.7	2.1	200	11/05/20 08:48	11/06/20 10:03	206-44-0	
Fluorene	**44.9**	ug/L	8.0	1.6	200	11/05/20 08:48	11/06/20 10:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**<3.5**	ug/L	17.6	3.5	200	11/05/20 08:48	11/06/20 10:03	193-39-5	
1-Methylnaphthalene	**102**	ug/L	5.9	1.2	200	11/05/20 08:48	11/06/20 10:03	90-12-0	
2-Methylnaphthalene	**40.2**	ug/L	4.9	0.98	200	11/05/20 08:48	11/06/20 10:03	91-57-6	
Naphthalene	**1310**	ug/L	18.3	3.7	200	11/05/20 08:48	11/06/20 10:03	91-20-3	
Phenanthrene	**12.8J**	ug/L	13.8	2.8	200	11/05/20 08:48	11/06/20 10:03	85-01-8	
Pyrene	**<1.5**	ug/L	7.7	1.5	200	11/05/20 08:48	11/06/20 10:03	129-00-0	
Total PAHs	**1670**	ug/L			200	11/05/20 08:48	11/06/20 10:03		
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-120		200	11/05/20 08:48	11/06/20 10:03	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-159		200	11/05/20 08:48	11/06/20 10:03	1718-51-0	S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

QC Batch: 370341
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40217676001, 40217676002

METHOD BLANK: 2140906 Matrix: Water
Associated Lab Samples: 40217676001, 40217676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	11/06/20 08:11	
2-Methylnaphthalene	ug/L	<0.0049	0.024	11/06/20 08:11	
Acenaphthene	ug/L	<0.0061	0.030	11/06/20 08:11	
Acenaphthylene	ug/L	<0.0050	0.025	11/06/20 08:11	
Anthracene	ug/L	<0.010	0.052	11/06/20 08:11	
Benzo(a)anthracene	ug/L	<0.0076	0.038	11/06/20 08:11	
Benzo(a)pyrene	ug/L	<0.011	0.053	11/06/20 08:11	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	11/06/20 08:11	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	11/06/20 08:11	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	11/06/20 08:11	
Chrysene	ug/L	<0.013	0.065	11/06/20 08:11	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	11/06/20 08:11	
Fluoranthene	ug/L	<0.011	0.053	11/06/20 08:11	
Fluorene	ug/L	<0.0080	0.040	11/06/20 08:11	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	11/06/20 08:11	
Naphthalene	ug/L	<0.018	0.092	11/06/20 08:11	
Phenanthrene	ug/L	<0.014	0.069	11/06/20 08:11	
Pyrene	ug/L	<0.0076	0.038	11/06/20 08:11	
Total PAHs	ug/L	0.0000000010		11/06/20 08:11	
2-Fluorobiphenyl (S)	%	60	39-120	11/06/20 08:11	
Terphenyl-d14 (S)	%	91	10-159	11/06/20 08:11	

LABORATORY CONTROL SAMPLE: 2140907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	59	37-120	
2-Methylnaphthalene	ug/L	2	1.3	63	38-120	
Acenaphthene	ug/L	2	1.4	68	49-120	
Acenaphthylene	ug/L	2	1.3	64	43-85	
Anthracene	ug/L	2	1.6	79	57-110	
Benzo(a)anthracene	ug/L	2	1.6	82	47-118	
Benzo(a)pyrene	ug/L	2	1.6	81	70-120	
Benzo(b)fluoranthene	ug/L	2	1.5	77	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.85	42	26-74	
Benzo(k)fluoranthene	ug/L	2	1.9	93	73-126	
Chrysene	ug/L	2	1.8	92	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.78	39	13-72	
Fluoranthene	ug/L	2	1.6	79	63-120	
Fluorene	ug/L	2	1.3	65	53-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

LABORATORY CONTROL SAMPLE: 2140907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	75	51-101	
Naphthalene	ug/L	2	1.2	62	41-120	
Phenanthrene	ug/L	2	1.3	67	47-100	
Pyrene	ug/L	2	1.6	79	70-128	
Total PAHs	ug/L		25.3			
2-Fluorobiphenyl (S)	%			65	39-120	
Terphenyl-d14 (S)	%			92	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2140908 2140909

Parameter	Units	40217687003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0058	2	1.9	0.99	0.99	51	51	16-120	1	28	
2-Methylnaphthalene	ug/L	<0.0049	2	1.9	1.0	1.1	53	55	29-120	3	31	
Acenaphthene	ug/L	<0.0060	2	1.9	1.1	1.1	56	58	33-120	2	30	
Acenaphthylene	ug/L	<0.0049	2	1.9	1.1	1.1	54	55	21-85	1	26	
Anthracene	ug/L	0.027J	2	1.9	1.3	1.3	63	66	16-114	4	36	
Benzo(a)anthracene	ug/L	0.0094J	2	1.9	1.2	1.2	59	60	10-118	0	35	
Benzo(a)pyrene	ug/L	<0.010	2	1.9	0.91	0.96	46	49	10-120	5	37	
Benzo(b)fluoranthene	ug/L	0.0082J	2	1.9	1.0	1.0	50	51	10-97	1	36	
Benzo(g,h,i)perylene	ug/L	<0.0067	2	1.9	0.49	0.54	25	28	10-74	10	45	
Benzo(k)fluoranthene	ug/L	<0.0075	2	1.9	1.0	1.1	53	59	10-126	10	41	
Chrysene	ug/L	<0.013	2	1.9	1.3	1.4	64	71	10-161	9	30	
Dibenz(a,h)anthracene	ug/L	<0.0099	2	1.9	0.46	0.51	24	26	10-72	11	50	
Fluoranthene	ug/L	0.018J	2	1.9	1.3	1.2	63	63	35-120	2	33	
Fluorene	ug/L	<0.0079	2	1.9	1.1	1.1	54	55	17-120	2	33	
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2	1.9	0.63	0.72	32	37	10-101	13	41	
Naphthalene	ug/L	<0.018	2	1.9	1.1	1.1	54	56	24-120	3	30	
Phenanthrene	ug/L	0.021J	2	1.9	1.1	1.1	55	55	15-100	1	30	
Pyrene	ug/L	0.022J	2	1.9	1.3	1.3	63	65	14-137	2	31	
Total PAHs	ug/L	0.12			18.1	18.7				3		
2-Fluorobiphenyl (S)	%						56	56	39-120			
Terphenyl-d14 (S)	%						67	70	10-159			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S4	Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18687 MOSS-AMERICAN
Pace Project No.: 40217676

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40217676001	**PZ-02**	EPA 3510	370341	EPA 8270 by HVI	370414
40217676002	**PZ-03**	EPA 3510	370341	EPA 8270 by HVI	370414

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UPPER MIDWEST REGION
MN: 612-607-1700 **WI:** 920-469-2436

CHAIN OF CUSTODY

4021676

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	The Sigma Group
Branch/Location:	Milwaukee, WI
Project Contact:	Andrea Lorenz
Phone:	414-643-4200
Project Number:	18687
Project Name:	Moss - American
Project State:	Wisconsin
Sampled By (Print):	Jackson Rock
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Andrea Lorenz
Mail To Company:	The Sigma Group
Mail To Address:	1300 W. Canal St. Milwaukee, WI 53233
Invoice To Contact:	Andrea Lorenze
Invoice To Company:	The Sigma Group
Invoice To Address:	1300 W. Canal St. Milwaukee, WI 53233
Invoice To Phone:	414-643-4200

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: PAH (EPA 8270)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter				
001	PZ-02	10/29	1000	GW	N	F	X			
002	PZ-03	10/29	0945	GW	N	F	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	10/29/20 1400		
Fedex	11/4/20 1110		11/4/20 1110

PACE Project No.: 4021676
Receipt Temp = 1.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: The Sigma Group Project # 60276676

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																										1							2.5 / 5 / 10
002																										1							2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
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Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	250 mL Amber glass unp.

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40217676

Client Name: The Sigma Group

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 3984 8093 9890

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 11/4/20 /Initials: MP

Labeled By Initials: SKW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☒Yes ☐No	6.
Rush Turn Around Time Requested:	☒Yes ☐No 11/4/20 MP	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi