Mcpherson, Benjamin J (DEC)

From: Mcpherson, Benjamin J (DEC)
Sent: Friday, October 21, 2022 4:28 PM
To: Rick L. Dubisz
Cc: Mike A. Lesakowski
Subject: RE: Semi Annual GWM Report 170 Jamison Road Site BCP Site C915315

Rick,

Thank you for the submission. I do not need revisions at this time, but I had some thoughts regarding the data for consideration in the annual report:

1) Based on the soil data near MW-24 it seems unlikely that there would be significant desorption of DCA from the soil into the groundwater. Additional information would need to be provided to support this hypothesis;
2) It is curious that the Fe+ is ND in all sampling events at MW-24. If the ZVI that is part of the BOS product is working there should be at least some Fe2+ in the groundwater downgradient to the PRB. Not sure if this is a problem with the BOS, sampling/analytical procedures, or geochemical; and
3) The relative lack of DCA treatment is concerning considering the results of the bench scale testing.

Please let me know if you have any questions.

Thanks,
Ben

Benjamin McPherson, P.E.
(he/him/his)
Professional Engineer 1 (Environmental), Division of Environmental Remediation

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From: Rick L. Dubisz <RDubisz@bm-tk.com>
Sent: Tuesday, October 18, 2022 10:07 AM
To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Cc: Mike A. Lesakowski <MLesakowski@bm-tk.com>
Subject: Semi Annual GWM Report 170 Jamison Road Site BCP Site C915315

Good Morning Ben,
Attached for your use is a copy of the Semi Annual Groundwater Monitoring Report for 170 Jamison Road BCP Site # C915315 (Moog Facility).

Please contact Mike Lesakowski or myself or you have any questions.

Thanks,
Rick

Rick Dubisz
Senior Project Scientist
rdubisz@bm-tk.com

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October 7, 2022

Mr. Benjamin McPherson
Project Manager
New York State Department of Environmental Conservation
Department of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo NY 14203-2915

Re: **170 Jamison Road Site**
BCP Site #C915315
Post-Remedial Semi-Annual Groundwater Monitoring Report 2022

Dear Mr. McPherson:

On behalf of Moog, Inc. (Moog), Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) has prepared this letter report to transmit the results of the post-remedial quarterly groundwater monitoring events at the 170 Jamison Road Site (BCP Site# C915315) in Elma, New York (See Figure 1). The work was performed in accordance with the approved September 2021 Site Management Plan (SMP). The SMP describes the Institutional and Engineering Controls (ICs and ECs) implemented at the Site which include a Permeable Reactive Barrier (PRB) and two impermeable slurry walls in the northwest corner of the Site to direct groundwater flow towards the PRB and remediate chlorinated volatile organic compounds (CVOCs) impacted groundwater. The groundwater parameter monitoring requirements and schedule as per the SMP are presented in Table 1 of this report.

FIELD SAMPLING PROCEDURE

On March 9th & 10th, and on June 15th & 16th, 2022, Benchmark staff performed groundwater sampling which included collecting a round of static water level measurements from the site monitoring wells as shown on Figure 2. A summary of the static water level measurements and groundwater elevations are presented on Tables 2 and 3 of this report.

The monitoring wells were sampled using a Mini-Typhoon® submersible pump and dedicated tubing following low-flow groundwater purging and sampling procedures, except for MW-21 and MW-23D (March event) which were purged and sampled using a dedicated bailer due to slow well volume recovery. Field measurements for dissolved oxygen, pH, Eh, specific conductance, temperature, turbidity, and visual/ olfactory observations were recorded and monitored during purging. Purging was considered complete when pH, specific conductivity, and temperature stabilized; and the turbidity measured below or stabilized above 50 NTU. Stability is defined as the variation between field measurements of

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10 percent or less with no overall upward or downward trend in the measurements. Once the field parameters stabilized, groundwater samples were collected in laboratory-supplied pre-preserved sample bottles. Immediately following groundwater sample collection, field measurements were also recorded. The submersible pump was decontaminated using Alconox and water following sample collection activities at each well.

Attachment 1 includes sample collection logs. All water samples were cooled to 4°C in the field and transported, under chain-of-custody command, to Eurofins/Test America Laboratories, Inc. in Amherst, NY for analysis per Table 1.

ANALYTICAL RESULTS

Attachment 2 includes the analytical data package for the March and June 2022 sampling events. A summary of the analytical results is presented on Table 4 of this report.

Results from the quarterly monitoring generally show the following:

- a trending decrease of CVOCs Freon-113, 1,1-DCA, chloromethane, and cis 1,2-DCE in wells MW-7 and MW-8R (i.e., the wells immediate up-gradient of the PRB) and the downgradient well MW-24 compared to pre-remediation concentrations;
- a trending decrease of CVOCs in PRB-downgradient well MW-24 compared to PRB-upgradient wells MW-7 and MW-8R. Of particular note, Freon-113 was not detected in MW-24 in March or June 2022.
- Monitoring wells MW-21 and MW- 22R were non-detect for CVOCs during both monitoring events exempt for a slight detection of 1,1,-DCA in MW-22R during the June 2022 event;
- Concentrations of 1,4-dioxane appear consistent with pre-remediation concentrations, at relative low concentrations (i.e., 13-17 ug/L) during both the March & June 2022 monitoring events; and,
- Reducing conditions that facilitate breakdown of CVOCs are present at MW-7, MW-8R and MW-24 as evidenced by low dissolved oxygen (DO) and negative oxidation-reduction potential (ORP)

DATA QUALITY

Site-specific quality control (QC) sampling during this event included the collection of one blind duplicate sample collected from MW-7 (March 2022) and MW-8R (June 2022), and one matrix spike/matrix spike duplicate (MS/MSD) sample collected from MW-8R (March 2022) and MW-9R (June 2022) for VOCs and 1,4-dioxane analyses. The blind duplicate data was consistent with primary sample data, and the MS/MSD laboratory recoveries were within acceptable limits.

GROUNDWATER ELEVATION DATA

Isopotential maps representing the shallow groundwater were prepared from the March and June 2022 depth-to-groundwater measurements and are presented as Figures 3 & 4. Based on those measurements, groundwater flow continues to be directed towards the PRB and slurry wall system, with the slurry wall legs directing water through the PRB. Groundwater elevations also indicate a slight mounding of groundwater on the inside of the slurry wall. However, based on the groundwater contours, the mounding does not appear to be affecting or changing groundwater flow direction.

CONCLUSIONS

Results from the first two quarterly monitoring events indicate a overall decrease in CVOCs, particularly in monitoring wells MW-7 and MW-8R, which are immediately upgradient of the PRB and MW-24, which is downgradient of the PRB. Residual VOC concentrations at MW-24 may reflect desorption from the saturated soil downgradient of the PRB. Results for the September and December 2022 monitoring events will be submitted in the annual groundwater monitoring report.

Sincerely,
Benchmark Civil/Environmental Engineering & Geology, PLLC

Rick Dubisz
Sr. Project Scientist

Mike A. Leaskowski
Principal

Att.

ec: T. Forbes (Benchmark)
R. Young (Moog)

TABLES

Table 1

Post Remediation Sampling Requirements and Schedule

Sampling Location	Water Level Monitoring	Analytical Parameters		Additional Groundwater Quality Parameters [1]	Schedule
		VOCs (EPA Method 8260)	1,4-Dioxane (EPA Method 8270 SIM)		
PZ-3	X				Quarterly for one year, semi-annually for three years, and annually thereafter
PZ-4	X				
PZ-5	X				
PZ-6	X				
PZ-7	X				
MW-7	X	X	X	X	
MW-8R	X	X	X	X	
MW-9R	X	X	X	X	
MW-9D	X	X	X	X	
MW-11	X				
MW-11D	X				
MW-12	X				
MW-13	X				
MW-13D	X				
MW-14	X				
MW-16	X				
MW-17	X				
MW-17D	X				
MW-18	X				
MW-19	X				
MW-20	X	X	X	X	
MW-20D	X	X	X	X	
MW-21[2]	X	X	X	X	
MW-22R	X	X	X	X	
MW-22D	X				
MW-23[2]	X	X	X	X	
MW-23D	X	X	X	X	
MW-24	X	X	X	X	

Notes:

1) Additional groundwater quality parameters may include ethene, ethane, methane, dissolved oxygen, oxygen-reduction potential, pH, Fe^{2+}, C^{-}, & dissolved H_2.

2) MW-21 and MW-23 will be included in the post remediation compliance well sampling schedule for a minimum of one year of quarterly sampling. The NYSDEC will be consulted with after one year to assess whether MW-21 and MW-23 will remain a part of the sampling schedule or be removed.

TABLE 2
GROUNDWATER ELEVATION MEASUREMENTS
170 JAMISON ROAD SITE
BCP SITE NO. C915315
ELMA, NEW YORK

March 10, 2022

Well Identification	Well Elevations			
Well Number	TOR Elevation (feet)	Ground Elevation (feet)	Depth to Water (fbTOR)	Top of Water Elevation
PZ-3	899.36	899.61	3.33	896.0
PZ-4	898.16	898.45	3.00	895.2
PZ-5	899.83	900.14	3.65	896.2
PZ-6	897.12	897.58	2.39	894.7
PZ-7	901.72	901.97	6.00	895.7
MW-7	900.45	900.67	4.70	895.8
MW-8R	903.95	904.24	7.67	896.3
MW-9R	902.66	902.96	5.98	896.7
MW-9D	901.96	902.36	7.66	894.3
MW-11	907.89	908.33	5.71	902.2
MW-11D	907.93	908.20	6.77	901.2
MW-12	908.34	908.87	8.20	900.1
MW-13	908.61	909.31	6.58	902.0
MW-13D	909.03	909.78	(2)	(2)
MW-14	909.42	909.69	5.62	903.8
MW-16	908.56	909.03	5.25	903.3
MW-17	910.26	910.69	5.31	905.0
MW-17D	910.37	910.79	6.27	904.1
MW-18	910.06	910.06	5.61	904.5
MW-19	906.99	907.45	(1)	(1)
MW-20	901.45	901.95	6.60	894.9
MW-20D	900.93	901.33	7.07	893.9
MW-21	898.38	899.01	5.74	892.6
MW-22R	901.98	902.23	5.51	896.5
MW-22D	901.80	901.99	6.77	895.0
MW-23	893.58	893.89	0.83	892.8
MW-23D	893.45	893.77	1.16	892.3
MW-24	897.80	898.08	2.16	895.6

Notes: (1) Monitoring well not located

(2) Vehicle parked over monitoring well.

Abbreviations:

DTW = depth to water

fbTOR = feet below top of riser

TOR = top of riser

TABLE 3
GROUNDWATER ELEVATION MEASUREMENTS
170 JAMISON ROAD SITE
BCP SITE NO. C915315
ELMA, NEW YORK

JUNE 16, 2022

Well Identification	Well Elevations			
Well Number	TOR Elevation (feet)	Ground Elevation (feet)	Depth to Water (fbTOR)	Top of Water Elevation
PZ-3	899.36	899.61	4.07	895.3
PZ-4	898.16	898.45	3.62	894.5
PZ-5	899.83	900.14	4.41	895.4
PZ-6	897.12	897.58	2.92	894.2
PZ-7	901.72	901.97	6.52	895.2
MW-7	900.45	900.67	5.36	895.1
MW-8R	903.95	904.24	8.27	895.7
MW-9R	902.66	902.96	7.19	895.5
MW-9D	901.96	902.36	8.39	893.6
MW-11	907.89	908.33	6.18	901.7
MW-11D	907.93	908.20	7.89	900.0
MW-12	908.34	908.87	8.81	899.5
MW-13	908.61	909.31	7.31	901.3
MW-13D	909.03	909.78	6.26	902.8
MW-14	909.42	909.69	4.41	905.0
MW-16	908.56	909.03	5.33	903.2
MW-17	910.26	910.69	5.77	904.5
MW-17D	910.37	910.79	7.31	903.1
MW-18	910.06	910.06	5.95	904.1
MW-19	906.99	907.45	(1)	(1)
MW-20	901.45	901.95	6.30	895.2
MW-20D	900.93	901.33	7.95	893.0
MW-21	898.38	899.01	5.45	892.9
MW-22R	901.98	902.23	6.33	895.7
MW-22D	901.80	901.99	7.52	894.3
MW-23	893.58	893.89	1.15	892.4
MW-23D	893.45	893.77	1.50	892.0
MW-24	897.80	898.08	2.77	895.0

Notes: (1) Monitoring well not located .

Abbreviations:

DTW = depth to water

fbTOR = feet below top of riser

TOR = top of riser

BENCHMARK

Table 4
SUMMARY OF PRE- AND POST REMEDIAL GROUNDWATER RESULTS
BCP NO.C9153 15
ELMA, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS[2]	MW-7 6/30/17	MW-7 4/17/19	MW-7 6/17/21	MW-7 7/14/21	MW-7 8/13/21	MW-7 3/10/22	MW-7 6/15/22	MW-8 6/30/17	MW-8 4/19/19	MW-8R 6/17/21	MW-8R 7/14/21	MW-8R 8/13/21	MW-8R 3/10/22	MW-8R 6/15/22	MW-9 7/05/17	MW-9 4/17/19	MW-9R 6/17/21	MW-9R 7/14/21	MW-9R 8/13/21	MW-9R 3/9/22	MW-9R 6/15/22	MW-9D 9/25/17	MW-9D 4/17/19	MW-9D 3/9/22	MW-9D 6/15/22
Volatile Organic Compounds - ug/L																										
1,1,1-Trichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	1.6	1.7	0.98	1.1	**26**	**26**	ND	**5.1 DL**
1,1,2-Trichloro-1,2,2,-trifluoroethane (Freon-113)	**5**	**680**	**530**	**730**	**650**	**650**	**540**	**460**	**130**	**59**	**110**	**78**	**81**	**49**	**45**	ND	0.57 J	ND	ND	0.48 J	ND	ND	ND	**61**	0.32 J	**8.1 DL**
1,1-Dichloroethane	**5**	**1000**	**720 F1**	**880**	**720**	**970 F1**	**880**	**790**	**240**	**110**	**500**	**310**	**540**	**510**	**490**	**450**	**44**	**160**	ND	**36**	ND	ND	**450**	**580**	**35**	**220 DL**
1,1-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.4 NJ**	ND	ND	ND
Bromodichloromethane	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.73 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	**5**	ND	ND	ND	ND	ND	**7.8 J**	ND	ND	ND	**10**	**8.3 J**	**13**	**13**	**11**	ND	ND	**5.7**	ND	1.9	ND	ND	**9.9 J**	**8.7 J**	1.5	**13 DL**
Chloroform	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.62 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**5**	**72**	**55**	**87**	**66**	**89**	**75**	**71**	**27**	**15**	**40**	**24**	**38**	**37**	**39**	**22**	3	**10**	ND	2.2	ND	ND	**12**	**18**	0.98 J	**7.7 DL**
Dichlorodifluoromethane (Freon-12)	**5**	ND	ND	ND	ND	**160 F1**	ND	ND	ND	ND	ND	ND	**110**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32	6.5 J	0.33 J	4.4 DL
Methylcyclohexane	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	5.9 J	0.16 J	2.1 J DL
Ethylbenzene	**4.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**2.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**0.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND	**2.4**	**2**	**1.4**	**1.7**	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	**0.4**	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9.3 J**	ND	ND	ND
Vinyl chloride	**2**	**77**	**48**	**59**	**65**	**63**	**61**	**73**	**25**	**16**	**27**	**18**	**24**	**28**	**37**	**36**	1.2	**7.3**	ND	1.5	ND	ND	**14**	**25**	1.6	**11 DL**
Total Xylenes	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**30**	ND	ND	ND
Semi-Volatile Organic Compound *(Method 8270D SIM ID) - ug/L*																										
1,4-Dioxane	**1**	NA	**22E**	**17**	**18E**	**17**	**15**	**17**	NA	**8.2E**	**13E**	**8.5E**	**14**	**13**	**13**	NA	**1.5E**	**3.7**	ND	**1.3**	0.1 J	ND	NA	NA	**4.1**	**11**
Dissolved Gasses - ug/L																										
Ethane	**--**	NA	NA	12	12	ND	ND	ND	NA	NA	ND	13	18	ND	11	NA	NA	7.8	ND	ND	ND	ND	NA	NA	34	ND
Ethene	**--**	NA	NA	22	23	ND	ND	ND	NA	NA	ND	8.6	13	ND	17	NA	NA	1.5 J	ND	ND	ND	ND	NA	NA	4.6 J	ND
Methane	**--**	NA	NA	4800	5600	5000	5300	3500	NA	NA	3400	2100	3100	3500	2500	NA	NA	1100	ND	270	ND	ND	NA	NA	9700	9300 DL
General Chemistry - mg/L																										
Chloride	**--**	NA	NA	1470	1180	2280	1480	1970	NA	NA	1380	784	1620	1360	2370	NA	NA	247	128	136	328	144	NA	NA	138	644
Ferrous Iron	**--**	NA	NA	ND	ND	ND	ND	ND	NA	NA	ND	ND	0.075 J HF	ND	ND	NA	NA	ND	ND	ND	ND	ND	NA	NA	0.1 HF	0.39 HF
Field Paramaters																										
Dissolved Oxygen (mg/L)	**--**	NA	NA	1	1.09	1.17	1.91	1.19	NA	NA	1.94	1.5	1.05	2.11	1.17	NA	NA	2.03	6.12	1.33	9.56	6.03	NA	NA	3.06	1.22
Oxidation-Reduction Potential (mV)	**--**	NA	NA	-12	-49	-12	-12	-81	NA	NA	0	85	21	26	-48	NA	NA	1	118	76	182	136	NA	NA	48	-34
pH	**--**	NA	NA	6.9	6.79	6.78	6.9	6.83	NA	NA	6.95	6.87	6.87	7.05	6.91	NA	NA	7.77	6.69	6.88	6.52	6.71	NA	NA	7.11	7.1

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).

Definitions:

ND = Parameter not detected above laboratory detection limit.

NA = Not Analyzed

"--" = No GWQS available.

B = Compound was found in the blank and sample

DL = Concentration of analyte was quantified from diluted analysis.

E = Result exceeds calibration range.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

J+ = Estimated value; result is less than the sample quantitation limit but greater than zero and may be biased high.

J- = Estimated value; result is less than the sample quantitation limit but greater than zero and may be biased low

F1 = MS and/or MSD Recovery is outside acceptance Limits

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

NJ = The detection is tenative in identificaton and estimated in value; result should be used with caution as a potential false positive and/or elevated quantitive value.

ug/L = micrograms per liter

Exceeds NYSDEC Class GA GWQS

BENCHMARK

TABLE 4 (cont'd)
SUMMARY OF PRE- AND POST REMEDIAL GROUNDWATER RESULTS
BCP NO.C9153 15
ELMA, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS[2]	MW-20 10/02/17	MW-20 4/17/19	MW-20 6/17/21	MW-20 7/14/21	MW-20 8/13/21	MW-20 3/9/22	MW-20 6/15/22	MW-20D 10/26/17	MW-20D 4/17/19	MW-20D 03/9/22	MW-20D 06/15/22	MW-21 10/02/17	MW-21 4/18/19	MW-21 3/10/22	MW-21 6/15/22	MW-22 10/02/17	MW-22 10/26/17	MW-22R 4/17/19	MW-22R 6/17/21	MW-22R 7/14/21	MW-22R 8/13/21	MW-22R 3/10/22	MW-22R 6/15/22
Volatile Organic Compounds - ug/L																								
1,1,1-Trichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2,-trifluoroethane (Freon-113)	**5**	ND	ND	ND	ND	ND	ND	ND	1.4 J+	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**5**	ND	0.46 J	**7.8**	**5.2**	**6.5**	**5.8**	**7.6**	2.3 J+	0.63 J	**6.5**	3.0	ND	ND	ND	ND	**5.7**	1.2 J-	ND	0.58 J	0.55 J	0.47 J	ND	0.48 J
1,1-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**50**	5.80 J	4.10 J	ND	ND	ND	ND	ND	3.6 J+	ND	ND	ND	ND	ND	ND	ND	14	32 J-	ND	ND	ND	ND	ND	ND
Benzene	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	`	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	**60**	0.35 J	ND	ND	ND	ND	ND	ND	0.63 J+	ND	ND	ND	ND	ND	ND	ND	0.79 J	1.1 J-	ND	ND	ND	ND	ND	ND
Chloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	0.92 J	ND	1.2	ND	ND	ND	ND	4.1	1.8 J-	ND	ND	ND	0.33 J	ND	ND
Chloroform	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**5**	ND	ND	1.9	1.2	1.5	1.3	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon-12)	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	**--**	0.39 J	ND	ND	ND	ND	ND	ND	5.5 J+	ND	0.6 J	0.4 J	ND	ND	ND	ND	1.5	0.86 J-	ND	ND	ND	ND	ND	ND
Methylcyclohexane	**--**	0.68 J	ND	ND	ND	ND	ND	ND	8.5 J+	0.38 J	0.67 J	ND	ND	ND	ND	ND	2.4	0.86 J-	ND	ND	ND	ND	ND	ND
Ethylbenzene	**4.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**2.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**0.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	**0.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	**2**	**52**	**73**	1.6	1.3	**6.9**	**7.5**	**4.5**	**19 J**	**52**	**41**	**56**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	**5**	ND	ND	ND	ND	ND	ND	ND	1.4 J+	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compound ***(Method 8270D SIM ID) - ug/L***																								
1,4-Dioxane	**1**	NA	**34E**	**4.9E**	**3.9E**	**10E**	**8.8**	**7**	NA	NA	**45E**	**51E**	NA	0.32	0.75	**1.4**	NA	NA	**7.8E**	**32**	**19E**	**28E**	**1.6**	**27E**
Dissolved Gasses - ug/L																								
Ethane	**--**	NA	NA	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND
Ethene	**--**	NA	NA	ND	ND	ND	ND	ND	NA	NA	13	12	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND
Methane	**--**	NA	NA	6.5	3.7 J	42	67	16	NA	NA	4300	2600	NA	NA	38	84	NA	NA	NA	1000	580	650	22	340
General Chemistry - mg/L																								
Chloride	**--**	NA	NA	385	305	507	370	734	NA	NA	457	474	NA	NA	1000	1290	NA	NA	NA	628	325	522	77.9	501
Ferrous Iron	**--**	NA	NA	0.83 HF	ND	ND	ND	0.41 HF	NA	NA	0.22 HF	ND	NA	NA	ND	0.32 HF	NA	NA	NA	ND	ND	ND	ND	ND
Field Paramaters																								
Dissolved Oxygen (mg/L)	**--**	NA	NA	7.4	2.06	2.66	4.87	1.85	NA	NA	1.59	1.42	NA	NA	5	1.74	NA	NA	NA	1.11	6.77	1.08	3.45	1.17
Oxidation-Reduction Potential (mV)	**--**	NA	NA	219	41	-29	62	-43	NA	NA	13	-59	NA	NA	72	-20	NA	NA	NA	-103	-81	-42	123	-77
pH	**--**	NA	NA	7.79	6.99	6.95	7.01	6.92	NA	NA	6.89	6.92	NA	NA	7.06	7.02	NA	NA	NA	7.18	7.02	6.37	6.94	7.07

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.

2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).

Definitions:

ND = Parameter not detected above laboratory detection limit.

NA = Not Analyzed

"--" = No GWQS available.

B = Compound was found in the blank and sample

E = Result exceeds calibration range.

DL = Concentration of analyte was quantified from diluted analysis.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

J+ = Estimated value; result is less than the sample quantitation limit but greater than zero and may be biased high.

J- = Estimated value; result is less than the sample quantitation limit but greater than zero and may be biased low

F1 = MS and/or MSD Recovery is outside acceptance Limits

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

NJ = The detection is tenative in identificaton and estimated in value; result should be used with caution as a potential false positive and/or elevated quantitive value.

ug/L = micrograms per liter

Exceeds NYSDEC Class GA GWQS

BENCHMARK

TABLE 4 (cont'd)
SUMMARY OF PRE- AND POST REMEDIAL GROUNDWATER RESULTS
BCP NO.C9153 15
ELMA, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS[2]	MW-23 11/18/17	MW-23 4/18/19	MW-23 03/9/22	MW-23 6/15/22	MW-23D 11/18/17	MW-23D 4/18/19	MW-23D 3/10/22	MW-23D 6/15/22	MW-24 6/17/21	MW-24 7/14/21	MW-24 8/13/21	MW-24 3/09/22	MW-24 6/15/22
Volatile Organic Compounds - ug/L														
1,1,1-Trichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2,-trifluoroethane (Freon-113)	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12**	**8.2 J**	ND	ND
1,1-Dichloroethane	**5**	4.5	**5.8**	**7.2**	**7.9**	1.4	ND	ND	ND	**610**	**630**	**800**	**840**	**630**
1,1-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**50**	ND	ND	ND	ND	ND	ND	ND	18 J	ND	ND	ND	ND	ND
Benzene	**1**	ND	ND	ND	ND	**21**	**25**	**3.2 J**	**14**	ND	ND	ND	ND	ND
Bromodichloromethane	**50**	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	**60**	0.54	0.37	ND	ND	0.64	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	**5**	2.6	**5.5**	**9.5**	**12**	ND	ND	ND	3.9 J	ND	3.2 J	ND	4.8 J	ND
Chloroform	**7**	ND	ND	ND	ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	**17**	**20**	**22**	**29**	**20**
Dichlorodifluoromethane (Freon-12)	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	**--**	2.2	ND	ND	ND	180	170	47	28	ND	ND	ND	ND	ND
Methylcyclohexane	**--**	5.6	ND	ND	ND	190	110	56	9.4	ND	ND	ND	ND	ND
Ethylbenzene	**4.5**	ND	ND	ND	ND	**28**	**22**	3.1 J	**11**	ND	ND	ND	ND	ND
Isopropylbenzene	**2.6**	ND	ND	ND	ND	**4.6**	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**0.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	**0.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND
Trichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	**150**	**47**	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	**2**	**2.5**	**2.3**	**2.9**	**3.4**	ND	ND	ND	ND	**39**	**63**	**68**	**52**	**51**
Total Xylenes	**5**	0.8	ND	ND	ND	**290**	**100**	**26**	**28**	ND	ND	ND	ND	ND
Semi-Volatile Organic Compound *(Method 8270D SIM ID) - ug/L*														
1,4-Dioxane	**1**	NA	**40E**	**38E**	**33E**	NA	NA	**26E**	**24E**	**14E**	**19E**	**20**	**13**	**17**
Dissolved Gasses - ug/L														
Ethane	**--**	NA	NA	ND	ND	NA	NA	110	190	19	15	17	0.71	10
Ethene	**--**	NA	NA	ND	ND	NA	NA	ND	ND	16	22	27	0.95	20
Methane	**--**	NA	NA	3100	2400	NA	NA	3600	4700	3900	5000	5300	2700	3200
General Chemistry - mg/L														
Chloride	**--**	NA	NA	461	545	NA	NA	381	386	1090	1040	1210 F1	1010	ND
Ferrous Iron	**--**	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND
Field Paramaters														
Dissolved Oxygen (mg/L)	**--**	NA	NA	2.30	1.27	NA	NA	2.26	1.34	0.96	1.02	1.22	1.64	1.43
Oxidation-Reduction Potential (mV)	**--**	NA	NA	-153	-161	NA	NA	20	-173	-120	-130	-88	-66	-84
pH	**--**	NA	NA	7.29	7.2	NA	NA	7.13	7.2	7.14	6.85	6.85	6.95	6.91

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.

2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).

Definitions:

ND = Parameter not detected above laboratory detection limit.

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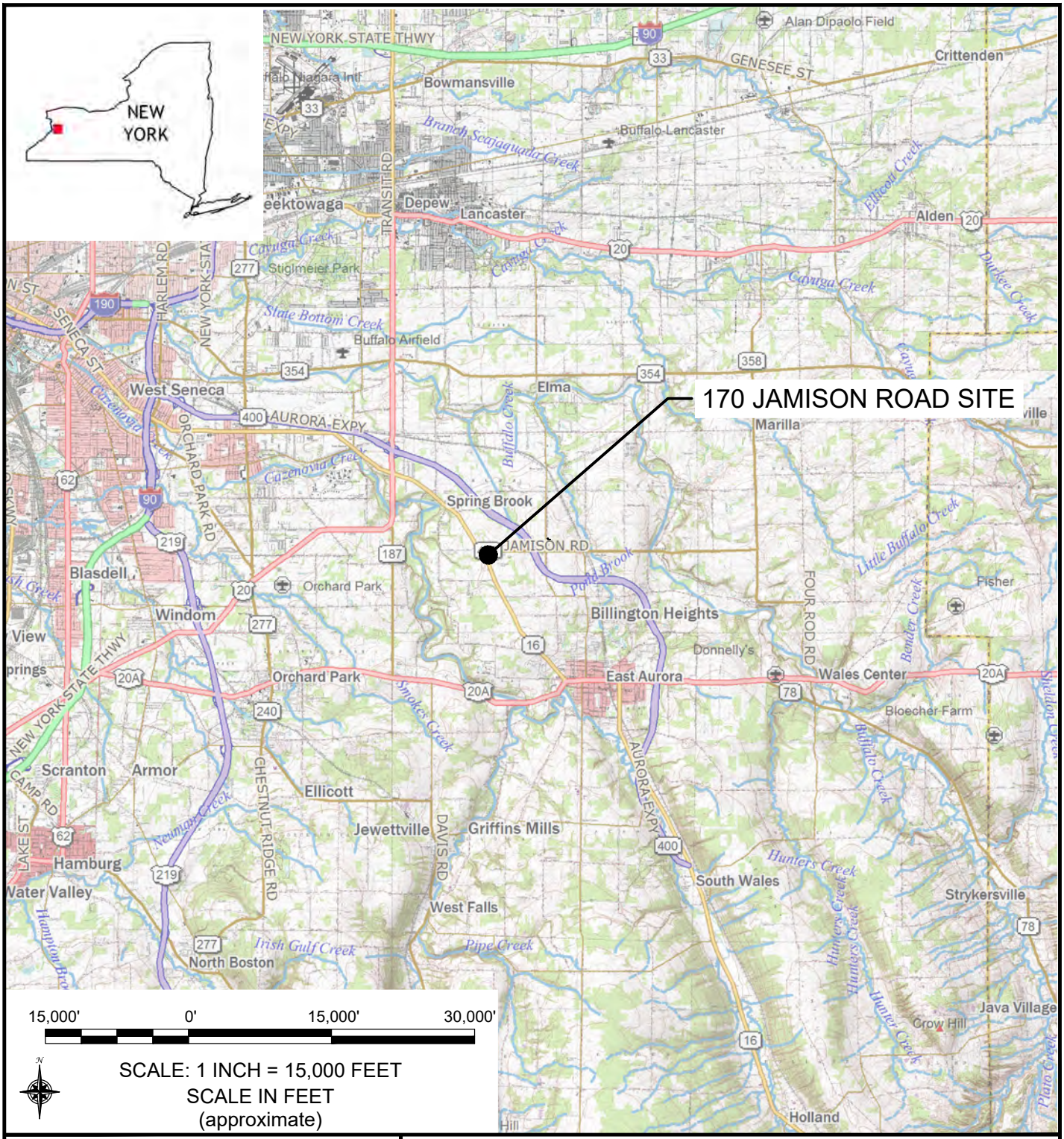
F1 = MS and/or MSD Recovery is outside acceptance Limits
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
NJ = The detection is tenative in identificaton and estimated in value; result should be used with caution as a potential false positive and/or elevated quantitive value.
ug/L = micrograms per liter

Exceeds NYSDEC Class GA GWQS

FIGURES

FIGURE 1



BENCHMARK
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0400-022-001

DATE: SEPTEMBER 2022

DRAFTED BY: RFL

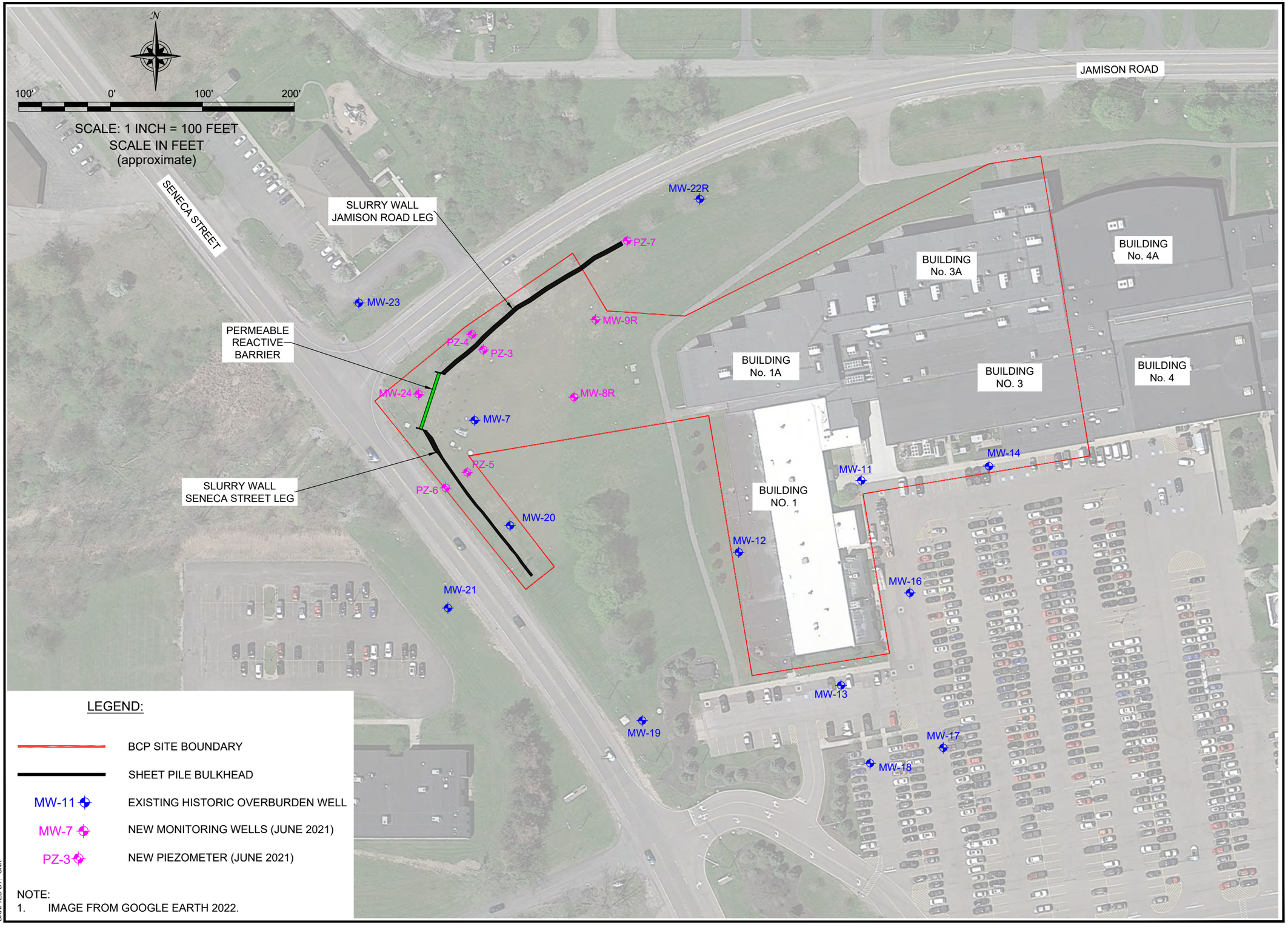
SITE LOCATION & VICINITY MAP

POST-REMEDIAL SEMI-ANNUAL GROUNDWATER MONITORING REPORT 2022

170 JAMISON ROAD SITE
BCP SITE NO. C915315
ELMA, NEW YORK

PREPARED FOR

MOOG INC.



LEGEND:

- BCP SITE BOUNDARY
- SHEET PILE BULKHEAD
- MW-11 — EXISTING HISTORIC OVERBURDEN WELL
- MW-7 — NEW MONITORING WELLS (JUNE 2021)
- PZ-3 — NEW PIEZOMETER (JUNE 2021)

NOTE:
1. IMAGE FROM GOOGLE EARTH 2022.

DATE: SEPTEMBER 2022
DRAFTED BY: CNK

BENCHMARK
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0400-022-001

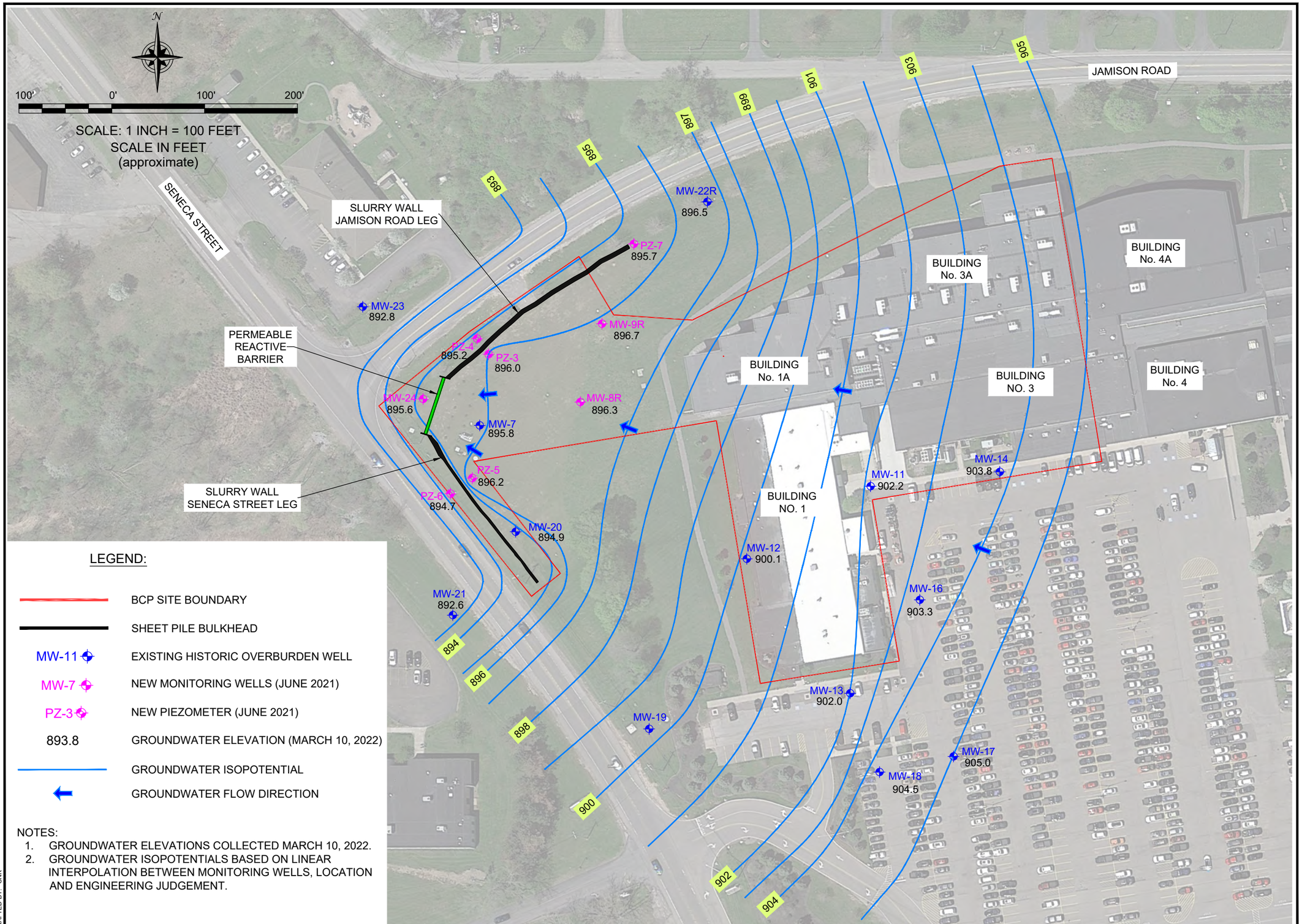
SITE PLAN

POST-REMEDIAL SEMI-ANNUAL GROUNDWATER
MONITORING REPORT 2022

170 JAMISON ROAD SITE
BCP SITE NO. C915315
ELMA, NEW YORK

PREPARED FOR
MOOG INC.

FIGURE 2



LEGEND:

- BCP SITE BOUNDARY
- SHEET PILE BULKHEAD
- MW-11 — EXISTING HISTORIC OVERBURDEN WELL
- MW-7 — NEW MONITORING WELLS (JUNE 2021)
- PZ-3 — NEW PIEZOMETER (JUNE 2021)
- 893.8 — GROUNDWATER ELEVATION (MARCH 10, 2022)
- GROUNDWATER ISOPOTENTIAL
- GROUNDWATER FLOW DIRECTION

NOTES:

1. GROUNDWATER ELEVATIONS COLLECTED MARCH 10, 2022.
2. GROUNDWATER ISOPOTENTIALS BASED ON LINEAR INTERPOLATION BETWEEN MONITORING WELLS, LOCATION AND ENGINEERING JUDGEMENT.

DATE: SEPTEMBER 2022
DRAFTED BY: CNK

BENCHMARK
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0400-022-001

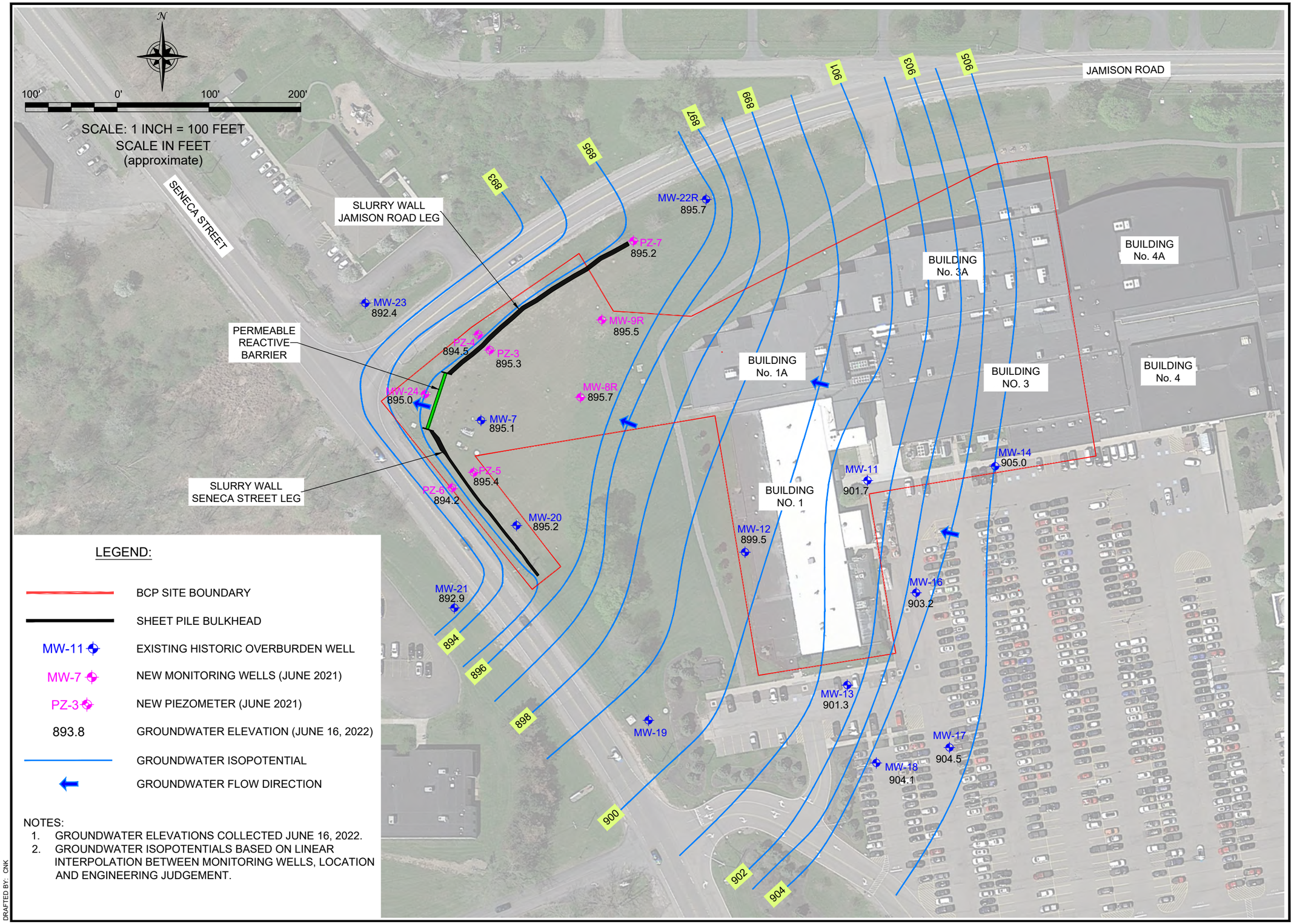
GROUNDWATER CONTOUR MAP MARCH 2022

POST-REMEDIAL SEMI-ANNUAL GROUNDWATER
MONITORING REPORT 2022

170 JAMISON ROAD SITE
BCP SITE NO. C915315
ELMA, NEW YORK

PREPARED FOR
MOOG INC.

FIGURE 3



LEGEND:

- BCP SITE BOUNDARY
- SHEET PILE BULKHEAD
- MW-11 — EXISTING HISTORIC OVERBURDEN WELL
- MW-7 — NEW MONITORING WELLS (JUNE 2021)
- PZ-3 — NEW PIEZOMETER (JUNE 2021)
- 893.8 — GROUNDWATER ELEVATION (JUNE 16, 2022)
- GROUNDWATER ISOPOTENTIAL
- GROUNDWATER FLOW DIRECTION

NOTES:
1. GROUNDWATER ELEVATIONS COLLECTED JUNE 16, 2022.
2. GROUNDWATER ISOPOTENTIALS BASED ON LINEAR INTERPOLATION BETWEEN MONITORING WELLS, LOCATION AND ENGINEERING JUDGEMENT.

DATE: SEPTEMBER 2022
DRAFTED BY: CNK

F:\CAD\Benchmark\Moog\170 Jamison Road\17-Post-Remedial Groundwater Monitoring\2022\Figure 4; Groundwater Contour Map June 2022.dwg, 9/27/2022 11:00:10 AM, DWG To PDF.pc3

BENCHMARK
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0400-022-001

GROUNDWATER CONTOUR MAP JUNE 2022

POST-REMEDIAL SEMI-ANNUAL GROUNDWATER
MONITORING REPORT 2022

170 JAMISON ROAD SITE
BCP SITE NO. C915315
ELMA, NEW YORK

PREPARED FOR
MOOG INC.

FIGURE 4

ATTACHMENT 1

SAMPLE COLLECTION LOGS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 3/10/22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team: TAB / RLD

Well No. MW-7			Diameter (inches): 2			Sample Date / Time: 3/10/22			
Product Depth (fbTOR): -			Water Column (ft): 9.65			DTW when sampled:			
DTW (static) (fbTOR): 4.70			One Well Volume (gal): 0.92			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 12.38			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
944	0 Initial	0	6.95	8.0	4566	4985	2.40	-31	grey sl silty
952	1 4.95	1.0	6.88	8.8	5030	53.0	2.46	-29	3L Tubd "
957	2 4.00	1.75	6.89	9.2	5030	18.5	2.67	-20	" Clear
1001	3 5.05	2.50	6.87	9.1	5012	17.9	2.31	-17	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information: Blind Dup collected 1100									
1005	S1 5.06	3.0	6.87	9.0	4429	15.9	1.91	-20	"
1021	S2 5.03	5.5	6.90	9.6	4866	16.9	1.81	-12	"

Well No. MW-8R			Diameter (inches): 2			Sample Date / Time: 3/10/22			
Product Depth (fbTOR): -			Water Column (ft): 6.1			DTW when sampled:			
DTW (static) (fbTOR): 7.67			One Well Volume (gal): 0.99			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 13.77			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
847	0 Initial	0	6.23	6.1	4675	>1000	2.35	111	grey sl Turbid
852	1 7.76	1	6.77	8.2	4704	45.4	1.96	40	clear Noted cr
856	2 7.76	1.5	6.86	8.7	4722	16.1	2.48	19	"
900	3 7.85	2.5	6.88	9.1	4717	17.5	1.95	11	"
903	4 7.80	3.0	6.89	9.1	4721	7.62	1.82	7	"
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information: MS/MSD									
905	S1 7.80	8.5	6.90	9.2	4731	5.34	2.17	2	"
929	S2 7.80	7.0	7.05	8.3	4793	4.53	2.11	26	"

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 3/9/22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph 001 Field Team: TAJ / RLD

Well No.	**MW-9R**	Diameter (inches):	2	Sample Date / Time:	3/8/22
Product Depth (fbTOR):	-	Water Column (ft):	11.3	DTW when sampled:	
DTW (static) (fbTOR):	5.98	One Well Volume (gal):	1.84	Purpose: ☐ Development ☐ Sample ☐ Purge & Sample	
Total Depth (fbTOR):	17.28	Total Volume Purged (gal):		Purge Method:	

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
845	0	Initial	0	6.65	6.7	1344	620	9.28	169	SL Turb. I No od.
848	1	6.20	1.0	6.46	6.3	1336	25.3	9.86	177	"
852	2	6.16	1.5	6.50	6.4	1343	9.91	9.74	183	Clear "
855	3	6.16	2.0	6.48	6.5	1345	4.86	9.46	190	Clear
859	4	6.20	2.5	6.53	6.4	1366	8.59	9.62	166	"
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
902	S1	6.20	3.0	6.51	6.2	1339	3.96	9.54	173	"
910	S2	6.20	3.5	6.52	5.8	1340	3.93	9.56	182	"

Well No.	**MW-9D**	Diameter (inches):	2	Sample Date / Time:	
Product Depth (fbTOR):	~~1.66~~	Water Column (ft):	15.67	DTW when sampled:	
DTW (static) (fbTOR):	1.66	One Well Volume (gal):	2.55	Purpose: ☐ Development ☐ Sample ☐ Purge & Sample	
Total Depth (fbTOR):	23.33	Total Volume Purged (gal):		Purge Method:	

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:25	0	Initial	0	~~6.05~~	6.0	531.4	156	11.04	177	SL Turb I No odr
9:28	1	1.20	1.0	7.31	8.3	521.7	739	12.03	174	Turb.I "
9:36	2	DRY	2.5	7.41	8.4	526.9	<1000	10.80	1310	"
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1342	S1	11.06	-	7.52	8.8	967.3	178	3.06	56	"
1354	S2	15.11	-	7.11	9.3	1084	184	3.67	48	

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 3/9/22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team:

Well No. MW-20			Diameter (inches): 2			Sample Date / Time: 3/9/22			
Product Depth (fbTOR): -			Water Column (ft): 4.09			DTW when sampled:			
DTW (static) (fbTOR): 6.60			One Well Volume (gal): 0.66			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 10.69			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1204	0 Initial	0	7.68	7.8	2038	7.77	3.26	40	Turbd No odor
1206	1 6.47	0.50	7.09	7.6	1999	11.7	2.67	27	sl Turbd "
1208	2 8.66	1.25	7.02	8.0	2012	15.9	2.62	44	clear "
1212	3 TOP	1.50	6.96	8.0	2005	4.16	2.10	43	Turbd "
1214	4 TOP	2.0	6.97	8.1	2008	21.2	1.94	55	clear "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information: TOP = 8.93									
1215	S1 TOP	2.25	6.99	8.1	2030	7.39	2.68	59	"
1239	S2 TOP	2.50	7.01	8.1	2053	<1000	4.87	62	

Well No. MW-20D			Diameter (inches): 2			Sample Date / Time:			
Product Depth (fbTOR): -			Water Column (ft): 15.91			DTW when sampled:			
DTW (static) (fbTOR): 7.07			One Well Volume (gal): 2.59			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 22.98			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1236	0 Initial	0	7.24	9.0	1957	14.8	5.82	72	Turbd No odor
1242	1 9.70	1.25	6.92	9.9	1827	4.33	3.19	29	"
1248	2 11.05	2.50	6.87	10.3	1973	2.15	2.37	21	"
1252	3 11.51	5.0	6.86	10.6	2153	50.4	1.52	21	clear "
1304	4 11.81	7.50	6.90	10.2	2168	38.0	1.49	18	" "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1307	S1 11.96	7.75	6.90	10.5	2154	33.4	1.93	16	"
1314	S2 1200	8.0	6.89	10.8	2155	37.0	1.59	13	"

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 3/10/22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team: TAB/RLD

Well No. MW-21			Diameter (inches): 2			Sample Date / Time: 3/10/22 1306			
Product Depth (fbTOR): –			Water Column (ft): 1.59			DTW when sampled: 5.41			
DTW (static) (fbTOR): 5.74			One Well Volume (gal): 0.25			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 7.33			Total Volume Purged (gal):			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1130	0 Initial	0	7.24	6.7	2456	8.89	4.88	67	clear No odor
1137	1 DRY	0.5	6.56	6.7	4607	9.15	3.94	66	"
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1306	S1 DRY	–	7.06	7.8	3915	472	5.47	72	Turb. 2 No odor
	S2								

Well No. MW-22R			Diameter (inches): 2			Sample Date / Time: 3/10/22			
Product Depth (fbTOR): –			Water Column (ft): 8.30			DTW when sampled:			
DTW (static) (fbTOR): 5.51			One Well Volume (gal): 1.35			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 13.81			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1152	0 Initial	0	7.34	8.0	513.9	342	8.57	55	Turb. 2 No odor
1156	1 6.99	1.25	6.95	7.6	525.9	46.3	8.19	100	sl Turb 2 "
1201	2 6.85	2.0	6.90	7.7	520.1	21.6	6.55	113	clear "
1204	3 7.01	2.75	6.89	7.6	534.3	12.9	5.70	119	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1212	S1 6.99	3.75	6.87	8.3	547.2	12.4	5.74	123	"
1227	S2 6.94	5.0	6.94	9.2	547.3	7.51	3.45	123	"

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 3/8/22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team:

Well No. MW-23			Diameter (inches): 2			Sample Date / Time: 3/8/22			
Product Depth (fbTOR): -			Water Column (ft): 12.05			DTW when sampled: 1.06			
DTW (static) (fbTOR): 0.83			One Well Volume (gal): 1.96			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 12.88			Total Volume Purged (gal):			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1025	0 Initial	0	7.25	8.1	1984	<1000	1.52	-123	Brown sed, Sl Petrodor
1032	1 1.07	2.75	7.26	8.8	1480	39.7	1.42	-143	clear "
1034	2 1.02	3.50	7.25	8.9	1988	16.3	1.50	-152	"
1037	3 1.06	4.0	7.22	8.6	1984	16.0	1.38	-152	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1039	S1 1.06	3.25	7.23	8.7	1986	6.85	1.87	-158	"
1048	S2 1.10	6.0	7.29	8.2	1988	6.23	2.30	-153	"

Well No. MW-23D			Diameter (inches): 2			Sample Date / Time: 3/10/22 1240			
Product Depth (fbTOR): -			Water Column (ft): 22.0			DTW when sampled: 1.16			
DTW (static) (fbTOR): 1.16			One Well Volume (gal): 3.58			Purpose: ☐ Development ☒ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 23.16			Total Volume Purged (gal):			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1058	0 Initial	0	7.66	8.5	511.2	26.2	1.80	-90	clear N. odor
1101	1 11.4	2.0	7.55	10.0	491.3	11.3	2.11	-81	"
1106	2 19.25	3.5	7.49	9.0	515.7	29.0	1.62	-78	
1108	3 DRY	4.0	pwell	went	DRY	Before	Readings		
	4			Could	be	collected			
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1240	S1 1.16	-	7.11	10.7	1813	28.4	2.03	38	clear N. odor
1250	S2 2.03	-	7.13	8.4	1816	28.2	2.26	20	" "

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: JAS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 3/10/22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph 001 Field Team:

Well No.	**MW-24**	Diameter (inches): 2		Sample Date / Time:
Product Depth (fbTOR):	–	Water Column (ft):	10.82	DTW when sampled:
DTW (static) (fbTOR):	2.16	One Well Volume (gal):	1.76	Purpose: ☐ Development ☐ Sample ☐ Purge & Sample
Total Depth (fbTOR):	12.98	Total Volume Purged (gal):		Purge Method:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1055	0	Initial	0	7.12	8.7	3539	410	1.67	-42	Turbid, no odor
1104	1	3.70	1.5	6.99	8.7	3674	80.3	2.18	-46	sl Turbid "
1109	2	3.05	3.0	6.97	9.0	3691	31.1	2.04	-52	clear "
1113	3	3.60	3.5	6.96	9.0	3622	16.8	2.07	-56	" "
~~1118~~	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1116	S1	3.40	4.5	6.98	9.2	3672	13.2	2.21	-48	" "
1128	S2	3.70	5.25	6.95	9.7	3627	15.5	1.64	-66	" "

Well No.		Diameter (inches):		Sample Date / Time:
Product Depth (fbTOR):		Water Column (ft):		DTW when sampled:
DTW (static) (fbTOR):		One Well Volume (gal):		Purpose: ☐ Development ☐ Sample ☐ Purge & Sample
Total Depth (fbTOR):		Total Volume Purged (gal):		Purge Method:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0	Initial								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
	S1									
	S2									

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 6-15-22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team: CEH + RFD

Well No. MW-7			Diameter (inches): 2			Sample Date / Time: 6-15-22 / 1045			
Product Depth (fbTOR):			Water Column (ft): 7.02			DTW when sampled: 6.15			
DTW (static) (fbTOR): 5.36			One Well Volume (gal): 1.14			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 12.38			Total Volume Purged (gal): 6.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1029	0 Initial	0.00	6.92	17.9	6211	>1000	0.66	-88	Turbid, no odor
1032	1 5.98	0.50	6.92	16.0	6257	140	0.92	-86	Sl turbid, no odor
1034	2 6.05	1.00	6.92	15.5	6193	40.0	1.08	-84	clear, no odor
1036	3 6.09	2.00	6.92	15.3	6140	36.5	0.96	-83	" " "
1038	4 6.15	2.75	6.92	15.5	6150	18.9	1.21	-81	" " "
1040	5 6.03	3.75	6.82	15.0	6175	9.97	1.03	-77	" " "
1042	6 6.10	4.75	6.83	15.4	6144	9.08	1.10	-77	" " "
	7								
	8								
	9								
	10								
Sample Information:									
1045	S1 6.15	5.50	6.83	15.6	6187	9.10	1.19	-87	Clear, no odor
1049	S2 6.10	6.50	6.80	15.9	6111	6.47	1.12	-81	" " "

Well No. MW-8R			Diameter (inches): 2			Sample Date / Time: 6-15-22 / 1000			
Product Depth (fbTOR):			Water Column (ft): 5.5			DTW when sampled: 8.48			
DTW (static) (fbTOR): 8.27			One Well Volume (gal): 0.90			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 13.77			Total Volume Purged (gal): 6.00			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0944	0 Initial	0.00	6.90	18.8	668.2	>1000	1.30	-12	Turbid, no odor
0946	1 8.48	0.50	6.91	16.1	658.7	253	1.19	-17	Sl turbid, no odor
0948	2 8.50	1.00	6.91	15.3	658.5	49.6	1.12	-31	clear, no odor
0950	3 8.48	1.50	6.92	15.3	663.0	63.1	1.12	-35	" " "
0952	4 8.45	2.00	6.91	15.1	6647	36.2	1.27	-40	" " "
0955	5 8.48	2.50	6.92	15.1	6656	21.8	1.29	-43	" " "
0957	6 8.48	3.00	6.91	14.9	6674	15.6	1.21	-42	" " "
0959	7 8.50	3.50	6.90	15.6	6680	14.1	1.18	-44	" " "
	8								
	9								
	10								
Sample Information:									
1000	S1 8.48	4.00	6.91	15.5	6676	9.78	1.17	-48	Clear, no odor
1012	S2 8.49	6.00	6.93	18.3	6717	8.29	1.16	-40	" " "

REMARKS: Blind Dup @ 0800 with MW-8R

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 6-15-22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph 001 Field Team: CEH + RFD

Well No. MW-9R			Diameter (inches): 2			Sample Date / Time: 6/15/22 / 0910			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled: 7.53			
DTW (static) (fbTOR): 7.19			One Well Volume (gal): 1.71			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 17.28			Total Volume Purged (gal): 5.50			Purge Method: pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0856	0 Initial	0.00	6.89	15.6	824.0	81.4	5.83	133	clear, no odor
0901	1 7.35	0.50	6.92	14.7	802.7	45.0	5.80	90	" " "
0904	2 7.45	1.00	6.79	14.8	804.9	20.8	5.91	114	" " "
0906	3 7.45	1.50	6.73	14.2	803.5	9.28	5.93	133	" " "
0908	4 7.59	2.50	6.80	14.3	803.4	6.71	6.07	138	" " "
0909	5 7.61	3.00	6.72	13.8	805.6	6.30	6.03	134	" " "
	6								
	7								
	8								
	9								
	10								
Sample Information:									
0910	S1 7.53	3.50	6.71	13.8	807.1	4.68	6.03	136	clear, no odor
0923	S2 7.75	5.50	6.80	16.4	803.1	4.43	6.03	167	" " "

Well No. MW-9D			Diameter (inches): 2			Sample Date / Time: 6/15/22 / 1145			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled: 14.17			
DTW (static) (fbTOR): 8.39			One Well Volume (gal): 2.53			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 23.33			Total Volume Purged (gal): 2.50			Purge Method: BAIL			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0853	0 Initial	0.00	6.72	15.4	383.7	113	1.99	183	SL turbid, no odor
0858	1 Dry	2.50	6.84	13.7	813.7	>1000	2.37	64	Turbid, no odor
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1145	S1 14.17	2.50	7.10	15.4	2043	437	1.22	-34	Turbid, no odor
	S2								

REMARKS: TOOIC MS/MSD with MW-9R

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date:

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team:

Well No. MW-20	Diameter (inches): 2	Sample Date / Time: 6-15-22 / 1415
Product Depth (fbTOR):	Water Column (ft): 4.39	DTW when sampled: 8.59
DTW (static) (fbTOR): 6.30	One Well Volume (gal): 0.72	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 10.69	Total Volume Purged (gal): 1.00	Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1400	0	Initial	1.00	6.92	14.7	2898	>1000	1.65	-73	Turbid, no odor
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1415	S1	8.59	1.00	6.92	15.6	2791	>1000	1.85	-43	Turbid, no odor
	S2		Dry							

Well No. MW-20D	Diameter (inches): 2	Sample Date / Time: 6-15-22 / 1425
Product Depth (fbTOR):	Water Column (ft): 15.03	DTW when sampled: 11.46
DTW (static) (fbTOR): 7.95	One Well Volume (gal): 2.45	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 22.98	Total Volume Purged (gal): 7.50	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1356	0	Initial	0.00	6.92	19.1	1195	>1000	1.24	-118	Turbid, no odor
1358	1	10.35	0.50	6.92	15.9	1117	>1000	1.28	-118	" " "
1404	2	11.52	2.00	6.92	15.7	1946	271	1.27	-81	" " "
1407	3	11.42	2.50	6.92	16.5	2024	272	1.24	-81	" " "
1409	4	11.48	3.00	6.92	16.3	2060	104	1.28	-75	SL Turbid, no odor
1411	5	11.45	3.50	6.92	16.3	2078	85.9	1.23	-72	" " " "
1420	6	11.45	5.50	6.92	16.2	2079	66.3	1.42	-50	clear, no odor
1422	7	11.45	6.00	6.92	16.9	2064	37.0	1.22	-57	" " "
	8									
	9									
	10									
Sample Information:										
1425	S1	11.46	6.50	6.92	16.2	2083	27.4	1.42	-59	clear, no odor
1431	S2	11.60	7.50	6.92	16.8	2104	30.1	1.37	-55	" " "

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 6-16-22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team:

Well No. MW-21			Diameter (inches): 2			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft): 1.88			DTW when sampled:			
DTW (static) (fbTOR): 5.45			One Well Volume (gal): 0.31			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 7.33			Total Volume Purged (gal):			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1000	0 Initial	0.00	7.02	20.4	4727	621	1.74	-20	Turbid, no odor
1002	1 Dry	0.31							
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1120	S1 5.83	0.31							
	S2								

Well No. MW-22R			Diameter (inches): 2			Sample Date / Time: 6-15-22 / 1130			
Product Depth (fbTOR):			Water Column (ft): 7.48			DTW when sampled: 8.08			
DTW (static) (fbTOR): 6.33			One Well Volume (gal): 1.22			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 13.81			Total Volume Purged (gal): 6.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1107	0 Initial	0.00	7.50	17.0	791.9	>1000	2.30	-24	Turbid, no odor
1110	1 7.65	0.50	7.27	14.5	719.3	150	2.13	-5	SL Turbid, no odor
1112	2 7.70	1.00	7.14	14.1	829.1	82.9	1.68	15	clear, no odor
1114	3 7.75	1.50	7.03	14.0	1167	71.0	1.47	28	" " "
1116	4 7.80	2.00	7.03	13.7	1402	122	1.32	25	" " "
1118	5 7.85	2.50	7.00	13.5	1556	73.6	1.35	-9	" " "
1120	6 7.90	3.00	7.00	13.3	1646	62.8	1.31	-38	" " "
1128	7 8.05	4.50	7.01	15.8	1842	48.5	1.07	-76	" " "
	8								
	9								
	10								
Sample Information:									
1130	S1 8.08	5.50	7.07	13.8	1542	171	1.17	-77	SL Turbid, no odor
1134	S2 8.12	6.50	7.05	14.1	1930	55.2	1.10	-86	clear, no odor

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 6-16-22

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph Field Team: RFD + CEH

Well No. MW-23			Diameter (inches): 2			Sample Date / Time: 6-16-22 / 0900			
Product Depth (fbTOR):			Water Column (ft): 11.73			DTW when sampled: 1.25			
DTW (static) (fbTOR): 1.15			One Well Volume (gal): 1.91			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 12.88			Total Volume Purged (gal): 3.00			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0847	0 Initial	0.00	6.73	18.7	2126	372	1.09	-128	Turbid, no odor
0850	1 1.28	0.50	7.09	17.7	2132	109	1.22	-155	SL Turbid, no odor
0852	2 1.25	1.00	7.16	17.2	2133	44.2	1.25	-158	Clear, no odor
0854	3 1.28	1.50	7.17	17.3	2129	33.8	1.26	-159	" " "
0856	4 1.25	2.00	7.18	17.4	2129	16.3	1.21	-161	" " "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
0900	S1 1.25	2.50	7.20	17.3	2126	9.58	1.27	-161	Clear, no odor
0905	S2 1.26	3.00	7.21	17.1	2124	10.7	1.26	-162	" " "

Well No. MW-23D			Diameter (inches): 2			Sample Date / Time: 6-16-22 / 0930			
Product Depth (fbTOR):			Water Column (ft): 21.66			DTW when sampled: 10.15			
DTW (static) (fbTOR): 1.50			One Well Volume (gal): 3.53			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 23.16			Total Volume Purged (gal): 2.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0920	0 Initial	0.00	7.34	21.2	1409	7.16	1.60	-157	Clear, no odor
0923	1 1.80	0.25	7.26	16.5	1733	13.0	1.74	-158	" " "
0925	2 5.90	0.50	7.20	17.7	1730	5.45	1.61	-174	" " "
0927	3 8.85	1.00	7.20	17.2	1731	6.43	1.42	-176	" " "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
0930	S1 10.15	1.50	7.20	16.2	1720	4.95	1.34	-173	Clear, no odor
0936	S2 14.75	2.50	7.22	16.3	1468	5.55	1.17	-166	" " "

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: **Moog -Post GWM** Date: 6-15-22 / 1325

Location: **170 Jamison Road Site** Project No.: B0400-022-001 Tsk-001/Ph 001 Field Team: CEH

Well No. MW-24			Diameter (inches): 2			Sample Date / Time: 6-15-22 / 1325			
Product Depth (fbTOR):			Water Column (ft): 10.21			DTW when sampled: 6.08			
DTW (static) (fbTOR): 2.77			One Well Volume (gal): 1.66			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 12.98			Total Volume Purged (gal): 4.00			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1309	0 Initial	0.00	6.92	19.5	4644	71000	3.09	-62	Turbid, no odor
1311	1 5.85	0.50	6.92	16.7	4749	422	1.91	-76	" " "
1313	2 6.08	1.00	6.92	16.2	4888	157	1.87	-78	SL Turbid, no odor
1316	3 6.05	1.50	6.92	16.5	4966	78	1.67	-80	clear, no odor
1318	4 6.03	2.00	6.92	15.7	4968	46.7	1.56	-82	" " "
1320	5 6.02	2.50	6.91	15.5	4974	37.5	1.45	-83	" " "
1323	6 6.08	3.00	6.88	16.2	4979	29.0	1.37	-83	" " "
	7								
	8								
	9								
	10								
Sample Information:									
1325	S1 6.08	3.50	6.91	15.7	5008	34.5	1.43	-84	clear, no odor
1330	S2 6.35	4.00	6.92	16.5	5021	35.6	1.27	-82	" " "

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

ATTACHMENT 2

EUROFINS/TEST AMERICA LABORATORIES, INC.
SAMPLE DATA SUMMARY PACKAGE
MARCH 2022/JUNE 2022

BENCHMARK

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-195682-1
Client Project/Site: (Moog) Jamison Road Site- Elma, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Michael Lesakowski

Authorized for release by:
3/24/2022 12:29:22 PM
Rebecca Jones, Project Management Assistant I
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Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-195682-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-195682-1

Comments
No additional comments.

Receipt
The samples were received on 3/10/2022 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-617835 recovered outside acceptance criteria, low biased, for Cyclohexane and Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated sample is impacted: MW-9R (480-195682-1).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-618015 recovered above the upper control limit for Carbon tetrachloride and trans-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-9D (480-195682-2).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-618015 recovered outside control limits for the following analyte: trans-1,3-Dichloropropene. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data have been reported. The associated sample is impacted: MW-9D (480-195682-2).

Method 8260C: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): MW-9D (480-195682-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for samples MW-20D (480-195682-4) and MW-23 (480-195682-5) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-9R (480-195682-1), MW-9D (480-195682-2), MW-20 (480-195682-3), MW-20D (480-195682-4) and MW-23 (480-195682-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-23 (480-195682-5). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-20D (480-195682-4).

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-9D (480-195682-2) and MW-20D (480-195682-4). Elevated reporting limits (RLs) are provided.

Job ID: 480-195682-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

Method RSK-175: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-20D (480-195682-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-9R (480-195682-1), MW-9D (480-195682-2), MW-20 (480-195682-3), MW-20D (480-195682-4) and MW-23 (480-195682-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: MW-9R — Lab Sample ID: 480-195682-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.98	J	1.0	0.82	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.4		1.0	0.36	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.10	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Chloride	328		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: MW-9D — Lab Sample ID: 480-195682-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.32	J	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	35		1.0	0.38	ug/L	1		8260C	Total/NA
Chloroethane	1.5		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.98	J	1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.33	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.16	J	1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	1.6		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	4.1		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Ethane	34		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	4.6	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	9700		440	110	ug/L	110		RSK-175	Total/NA
Chloride	138		2.5	1.4	mg/L	5		300.0	Total/NA
Ferrous Iron	0.10	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 480-195682-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.8		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	7.5		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	8.8		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	67		4.0	1.0	ug/L	1		RSK-175	Total/NA
Chloride	370		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: MW-20D — Lab Sample ID: 480-195682-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.5		1.0	0.38	ug/L	1		8260C	Total/NA
Cyclohexane	0.60	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.67	J	1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	41		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	45	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Ethene	13		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	4300		88	22	ug/L	22		RSK-175	Total/NA
Chloride	457		2.5	1.4	mg/L	5		300.0	Total/NA
Ferrous Iron	0.22	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 480-195682-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	7.2		1.0	0.38	ug/L	1		8260C	Total/NA
Chloroethane	9.5		1.0	0.32	ug/L	1		8260C	Total/NA
Vinyl chloride	2.9		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	38	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	3100		44	11	ug/L	11		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: MW-23 (Continued)
Lab Sample ID: 480-195682-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	461		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-195682-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.43	J	1.0	0.34	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-9R
Date Collected: 03/09/22 09:02
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.98**	**J**	1.0	0.82	ug/L			03/15/22 13:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/15/22 13:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/15/22 13:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/15/22 13:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/15/22 13:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/15/22 13:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/15/22 13:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/15/22 13:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/15/22 13:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/15/22 13:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/15/22 13:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/15/22 13:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/15/22 13:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/15/22 13:06	1
2-Hexanone	ND		5.0	1.2	ug/L			03/15/22 13:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/15/22 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/15/22 13:06	1
Acetone	ND		10	3.0	ug/L			03/15/22 13:06	1
Benzene	ND		1.0	0.41	ug/L			03/15/22 13:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/15/22 13:06	1
Bromoform	ND		1.0	0.26	ug/L			03/15/22 13:06	1
Bromomethane	ND		1.0	0.69	ug/L			03/15/22 13:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/15/22 13:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/15/22 13:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/15/22 13:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/15/22 13:06	1
Chloroethane	ND		1.0	0.32	ug/L			03/15/22 13:06	1
Chloroform	ND		1.0	0.34	ug/L			03/15/22 13:06	1
1,4-Dioxane	ND		40	9.3	ug/L			03/15/22 13:06	1
Chloromethane	ND		1.0	0.35	ug/L			03/15/22 13:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/15/22 13:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/15/22 13:06	1
Cyclohexane	ND		1.0	0.18	ug/L			03/15/22 13:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/15/22 13:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/15/22 13:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/15/22 13:06	1
Methyl acetate	ND		2.5	1.3	ug/L			03/15/22 13:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/15/22 13:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/15/22 13:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/15/22 13:06	1
Styrene	ND		1.0	0.73	ug/L			03/15/22 13:06	1
Tetrachloroethene	**1.4**		1.0	0.36	ug/L			03/15/22 13:06	1
Toluene	ND		1.0	0.51	ug/L			03/15/22 13:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/15/22 13:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/15/22 13:06	1
Trichloroethene	ND		1.0	0.46	ug/L			03/15/22 13:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/15/22 13:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/15/22 13:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/15/22 13:06	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-9R

Date Collected: 03/09/22 09:02
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		03/15/22 13:06	1
Toluene-d8 (Surr)	99		80 - 120		03/15/22 13:06	1
4-Bromofluorobenzene (Surr)	100		73 - 120		03/15/22 13:06	1
Dibromofluoromethane (Surr)	100		75 - 123		03/15/22 13:06	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.10	J	0.20	0.10	ug/L		03/11/22 10:10	03/14/22 18:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110	03/11/22 10:10	03/14/22 18:54	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/14/22 15:22	1
Ethane	ND		7.5	1.5	ug/L			03/14/22 15:22	1
Ethene	ND		7.0	1.5	ug/L			03/14/22 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		2.5	1.4	mg/L			03/18/22 23:13	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-9D
Date Collected: 03/09/22 13:42
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/16/22 18:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/16/22 18:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/16/22 18:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.32**	**J**	1.0	0.31	ug/L			03/16/22 18:29	1
1,1-Dichloroethane	**35**		1.0	0.38	ug/L			03/16/22 18:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/16/22 18:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/16/22 18:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/16/22 18:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/16/22 18:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/16/22 18:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/16/22 18:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/16/22 18:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/16/22 18:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/16/22 18:29	1
2-Hexanone	ND		5.0	1.2	ug/L			03/16/22 18:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/16/22 18:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/16/22 18:29	1
Acetone	ND		10	3.0	ug/L			03/16/22 18:29	1
Benzene	ND		1.0	0.41	ug/L			03/16/22 18:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/16/22 18:29	1
Bromoform	ND		1.0	0.26	ug/L			03/16/22 18:29	1
Bromomethane	ND		1.0	0.69	ug/L			03/16/22 18:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/16/22 18:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/16/22 18:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/16/22 18:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/16/22 18:29	1
Chloroethane	**1.5**		1.0	0.32	ug/L			03/16/22 18:29	1
Chloroform	ND		1.0	0.34	ug/L			03/16/22 18:29	1
1,4-Dioxane	ND		40	9.3	ug/L			03/16/22 18:29	1
Chloromethane	ND		1.0	0.35	ug/L			03/16/22 18:29	1
cis-1,2-Dichloroethene	**0.98**	**J**	1.0	0.81	ug/L			03/16/22 18:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/16/22 18:29	1
Cyclohexane	**0.33**	**J**	1.0	0.18	ug/L			03/16/22 18:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/16/22 18:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/16/22 18:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/16/22 18:29	1
Methyl acetate	ND		2.5	1.3	ug/L			03/16/22 18:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/16/22 18:29	1
Methylcyclohexane	**0.16**	**J**	1.0	0.16	ug/L			03/16/22 18:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/16/22 18:29	1
Styrene	ND		1.0	0.73	ug/L			03/16/22 18:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/16/22 18:29	1
Toluene	ND		1.0	0.51	ug/L			03/16/22 18:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/16/22 18:29	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.37	ug/L			03/16/22 18:29	1
Trichloroethene	ND		1.0	0.46	ug/L			03/16/22 18:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/16/22 18:29	1
Vinyl chloride	**1.6**		1.0	0.90	ug/L			03/16/22 18:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/16/22 18:29	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-9D

Date Collected: 03/09/22 13:42
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*03/16/22 18:29*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/16/22 18:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/16/22 18:29*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*03/16/22 18:29*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.1**		0.20	0.10	ug/L		03/11/22 10:10	03/14/22 19:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*03/11/22 10:10*	*03/14/22 19:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**34**		7.5	1.5	ug/L			03/14/22 15:41	1
Ethene	**4.6**	**J**	7.0	1.5	ug/L			03/14/22 15:41	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**9700**		440	110	ug/L			03/15/22 17:23	110

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**138**		2.5	1.4	mg/L			03/19/22 01:05	5
Ferrous Iron	**0.10**	**HF**	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-20

Date Collected: 03/09/22 12:15
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/14/22 19:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/14/22 19:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/14/22 19:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/14/22 19:47	1
1,1-Dichloroethane	**5.8**		1.0	0.38	ug/L			03/14/22 19:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/14/22 19:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/14/22 19:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/14/22 19:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/14/22 19:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/14/22 19:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/14/22 19:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/14/22 19:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/14/22 19:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/14/22 19:47	1
2-Hexanone	ND		5.0	1.2	ug/L			03/14/22 19:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/14/22 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/14/22 19:47	1
Acetone	ND		10	3.0	ug/L			03/14/22 19:47	1
Benzene	ND		1.0	0.41	ug/L			03/14/22 19:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/14/22 19:47	1
Bromoform	ND		1.0	0.26	ug/L			03/14/22 19:47	1
Bromomethane	ND		1.0	0.69	ug/L			03/14/22 19:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/14/22 19:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/14/22 19:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/14/22 19:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/14/22 19:47	1
Chloroethane	ND		1.0	0.32	ug/L			03/14/22 19:47	1
Chloroform	ND		1.0	0.34	ug/L			03/14/22 19:47	1
1,4-Dioxane	ND		40	9.3	ug/L			03/14/22 19:47	1
Chloromethane	ND		1.0	0.35	ug/L			03/14/22 19:47	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.81	ug/L			03/14/22 19:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/14/22 19:47	1
Cyclohexane	ND		1.0	0.18	ug/L			03/14/22 19:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/14/22 19:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/14/22 19:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/14/22 19:47	1
Methyl acetate	ND		2.5	1.3	ug/L			03/14/22 19:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/14/22 19:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/14/22 19:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/14/22 19:47	1
Styrene	ND		1.0	0.73	ug/L			03/14/22 19:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/14/22 19:47	1
Toluene	ND		1.0	0.51	ug/L			03/14/22 19:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/14/22 19:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/14/22 19:47	1
Trichloroethene	ND		1.0	0.46	ug/L			03/14/22 19:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/14/22 19:47	1
Vinyl chloride	**7.5**		1.0	0.90	ug/L			03/14/22 19:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/14/22 19:47	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-20

Date Collected: 03/09/22 12:15
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/14/22 19:47	1
Toluene-d8 (Surr)	102		80 - 120		03/14/22 19:47	1
4-Bromofluorobenzene (Surr)	108		73 - 120		03/14/22 19:47	1
Dibromofluoromethane (Surr)	105		75 - 123		03/14/22 19:47	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.8		0.20	0.10	ug/L		03/11/22 10:10	03/14/22 19:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110	03/11/22 10:10	03/14/22 19:38	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	67		4.0	1.0	ug/L			03/15/22 17:42	1
Ethane	ND		7.5	1.5	ug/L			03/15/22 17:42	1
Ethene	ND		7.0	1.5	ug/L			03/15/22 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		2.5	1.4	mg/L			03/19/22 01:23	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-20D

Date Collected: 03/09/22 13:07
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/14/22 20:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/14/22 20:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/14/22 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/14/22 20:09	1
1,1-Dichloroethane	**6.5**		1.0	0.38	ug/L			03/14/22 20:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/14/22 20:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/14/22 20:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/14/22 20:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/14/22 20:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/14/22 20:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/14/22 20:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/14/22 20:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/14/22 20:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/14/22 20:09	1
2-Hexanone	ND		5.0	1.2	ug/L			03/14/22 20:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/14/22 20:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/14/22 20:09	1
Acetone	ND		10	3.0	ug/L			03/14/22 20:09	1
Benzene	ND		1.0	0.41	ug/L			03/14/22 20:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/14/22 20:09	1
Bromoform	ND		1.0	0.26	ug/L			03/14/22 20:09	1
Bromomethane	ND		1.0	0.69	ug/L			03/14/22 20:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/14/22 20:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/14/22 20:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/14/22 20:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/14/22 20:09	1
Chloroethane	ND		1.0	0.32	ug/L			03/14/22 20:09	1
Chloroform	ND		1.0	0.34	ug/L			03/14/22 20:09	1
1,4-Dioxane	ND		40	9.3	ug/L			03/14/22 20:09	1
Chloromethane	ND		1.0	0.35	ug/L			03/14/22 20:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/14/22 20:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/14/22 20:09	1
Cyclohexane	**0.60**	**J**	1.0	0.18	ug/L			03/14/22 20:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/14/22 20:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/14/22 20:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/14/22 20:09	1
Methyl acetate	ND		2.5	1.3	ug/L			03/14/22 20:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/14/22 20:09	1
Methylcyclohexane	**0.67**	**J**	1.0	0.16	ug/L			03/14/22 20:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/14/22 20:09	1
Styrene	ND		1.0	0.73	ug/L			03/14/22 20:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/14/22 20:09	1
Toluene	ND		1.0	0.51	ug/L			03/14/22 20:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/14/22 20:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/14/22 20:09	1
Trichloroethene	ND		1.0	0.46	ug/L			03/14/22 20:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/14/22 20:09	1
Vinyl chloride	**41**		1.0	0.90	ug/L			03/14/22 20:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/14/22 20:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-20D

Date Collected: 03/09/22 13:07
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/14/22 20:09	1
Toluene-d8 (Surr)	98		80 - 120		03/14/22 20:09	1
4-Bromofluorobenzene (Surr)	94		73 - 120		03/14/22 20:09	1
Dibromofluoromethane (Surr)	103		75 - 123		03/14/22 20:09	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**45**	**E**	0.20	0.10	ug/L		03/11/22 10:10	03/14/22 20:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110	03/11/22 10:10	03/14/22 20:01	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			03/14/22 16:18	1
Ethene	**13**		7.0	1.5	ug/L			03/14/22 16:18	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4300**		88	22	ug/L			03/15/22 18:01	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**457**		2.5	1.4	mg/L			03/19/22 01:42	5
Ferrous Iron	**0.22**	**HF**	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-23

Date Collected: 03/09/22 10:39
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/14/22 20:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/14/22 20:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/14/22 20:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/14/22 20:32	1
1,1-Dichloroethane	**7.2**		1.0	0.38	ug/L			03/14/22 20:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/14/22 20:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/14/22 20:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/14/22 20:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/14/22 20:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/14/22 20:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/14/22 20:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/14/22 20:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/14/22 20:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/14/22 20:32	1
2-Hexanone	ND		5.0	1.2	ug/L			03/14/22 20:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/14/22 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/14/22 20:32	1
Acetone	ND		10	3.0	ug/L			03/14/22 20:32	1
Benzene	ND		1.0	0.41	ug/L			03/14/22 20:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/14/22 20:32	1
Bromoform	ND		1.0	0.26	ug/L			03/14/22 20:32	1
Bromomethane	ND		1.0	0.69	ug/L			03/14/22 20:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/14/22 20:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/14/22 20:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/14/22 20:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/14/22 20:32	1
Chloroethane	**9.5**		1.0	0.32	ug/L			03/14/22 20:32	1
Chloroform	ND		1.0	0.34	ug/L			03/14/22 20:32	1
1,4-Dioxane	ND		40	9.3	ug/L			03/14/22 20:32	1
Chloromethane	ND		1.0	0.35	ug/L			03/14/22 20:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/14/22 20:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/14/22 20:32	1
Cyclohexane	ND		1.0	0.18	ug/L			03/14/22 20:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/14/22 20:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/14/22 20:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/14/22 20:32	1
Methyl acetate	ND		2.5	1.3	ug/L			03/14/22 20:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/14/22 20:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/14/22 20:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/14/22 20:32	1
Styrene	ND		1.0	0.73	ug/L			03/14/22 20:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/14/22 20:32	1
Toluene	ND		1.0	0.51	ug/L			03/14/22 20:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/14/22 20:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/14/22 20:32	1
Trichloroethene	ND		1.0	0.46	ug/L			03/14/22 20:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/14/22 20:32	1
Vinyl chloride	**2.9**		1.0	0.90	ug/L			03/14/22 20:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/14/22 20:32	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-23

Date Collected: 03/09/22 10:39
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*03/14/22 20:32*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/22 20:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/14/22 20:32*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*03/14/22 20:32*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**38**	**E**	0.20	0.10	ug/L		03/11/22 10:10	03/14/22 20:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*03/11/22 10:10*	*03/14/22 20:23*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3100**		44	11	ug/L			03/14/22 16:37	11
Ethane	ND		83	17	ug/L			03/14/22 16:37	11
Ethene	ND		77	17	ug/L			03/14/22 16:37	11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**461**		2.5	1.4	mg/L			03/19/22 02:01	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: TRIP BLANK

Date Collected: 03/09/22 14:30
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/14/22 20:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/14/22 20:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/14/22 20:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/14/22 20:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/14/22 20:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/14/22 20:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/14/22 20:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/14/22 20:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/14/22 20:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/14/22 20:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/14/22 20:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/14/22 20:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/14/22 20:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/14/22 20:55	1
2-Hexanone	ND		5.0	1.2	ug/L			03/14/22 20:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/14/22 20:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/14/22 20:55	1
Acetone	ND		10	3.0	ug/L			03/14/22 20:55	1
Benzene	ND		1.0	0.41	ug/L			03/14/22 20:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/14/22 20:55	1
Bromoform	ND		1.0	0.26	ug/L			03/14/22 20:55	1
Bromomethane	ND		1.0	0.69	ug/L			03/14/22 20:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/14/22 20:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/14/22 20:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/14/22 20:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/14/22 20:55	1
Chloroethane	ND		1.0	0.32	ug/L			03/14/22 20:55	1
Chloroform	**0.43**	**J**	1.0	0.34	ug/L			03/14/22 20:55	1
1,4-Dioxane	ND		40	9.3	ug/L			03/14/22 20:55	1
Chloromethane	ND		1.0	0.35	ug/L			03/14/22 20:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/14/22 20:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/14/22 20:55	1
Cyclohexane	ND		1.0	0.18	ug/L			03/14/22 20:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/14/22 20:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/14/22 20:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/14/22 20:55	1
Methyl acetate	ND		2.5	1.3	ug/L			03/14/22 20:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/14/22 20:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/14/22 20:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/14/22 20:55	1
Styrene	ND		1.0	0.73	ug/L			03/14/22 20:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/14/22 20:55	1
Toluene	ND		1.0	0.51	ug/L			03/14/22 20:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/14/22 20:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/14/22 20:55	1
Trichloroethene	ND		1.0	0.46	ug/L			03/14/22 20:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/14/22 20:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/14/22 20:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/14/22 20:55	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: TRIP BLANK
Date Collected: 03/09/22 14:30
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		03/14/22 20:55	1
Toluene-d8 (Surr)	102		80 - 120		03/14/22 20:55	1
4-Bromofluorobenzene (Surr)	97		73 - 120		03/14/22 20:55	1
Dibromofluoromethane (Surr)	105		75 - 123		03/14/22 20:55	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-195682-1	MW-9R	110	99	100	100
480-195682-2	MW-9D	100	96	101	97
480-195682-3	MW-20	107	102	108	105
480-195682-4	MW-20D	107	98	94	103
480-195682-5	MW-23	115	102	102	115
480-195682-6	TRIP BLANK	112	102	97	105
LCS 480-617741/5	Lab Control Sample	103	103	106	106
LCS 480-617835/5	Lab Control Sample	105	101	101	98
LCS 480-618015/6	Lab Control Sample	99	100	107	101
MB 480-617741/7	Method Blank	94	105	102	97
MB 480-617835/7	Method Blank	114	103	102	113
MB 480-618015/8	Method Blank	103	93	96	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (15-110)						
480-195682-1	MW-9R	28						
480-195682-2	MW-9D	30						
480-195682-3	MW-20	28						
480-195682-4	MW-20D	29						
480-195682-5	MW-23	28						
LCS 480-617547/2-A	Lab Control Sample	30						
MB 480-617547/1-A	Method Blank	31						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-617741/7
Matrix: Water
Analysis Batch: 617741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/14/22 14:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/14/22 14:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/14/22 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/14/22 14:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/14/22 14:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/14/22 14:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/14/22 14:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/14/22 14:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/14/22 14:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/14/22 14:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/14/22 14:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/14/22 14:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/14/22 14:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/14/22 14:35	1
2-Hexanone	ND		5.0	1.2	ug/L			03/14/22 14:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/14/22 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/14/22 14:35	1
Acetone	ND		10	3.0	ug/L			03/14/22 14:35	1
Benzene	ND		1.0	0.41	ug/L			03/14/22 14:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/14/22 14:35	1
Bromoform	ND		1.0	0.26	ug/L			03/14/22 14:35	1
Bromomethane	ND		1.0	0.69	ug/L			03/14/22 14:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/14/22 14:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/14/22 14:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/14/22 14:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/14/22 14:35	1
Chloroethane	ND		1.0	0.32	ug/L			03/14/22 14:35	1
Chloroform	ND		1.0	0.34	ug/L			03/14/22 14:35	1
1,4-Dioxane	ND		40	9.3	ug/L			03/14/22 14:35	1
Chloromethane	ND		1.0	0.35	ug/L			03/14/22 14:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/14/22 14:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/14/22 14:35	1
Cyclohexane	ND		1.0	0.18	ug/L			03/14/22 14:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/14/22 14:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/14/22 14:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/14/22 14:35	1
Methyl acetate	ND		2.5	1.3	ug/L			03/14/22 14:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/14/22 14:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/14/22 14:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/14/22 14:35	1
Styrene	ND		1.0	0.73	ug/L			03/14/22 14:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/14/22 14:35	1
Toluene	ND		1.0	0.51	ug/L			03/14/22 14:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/14/22 14:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/14/22 14:35	1
Trichloroethene	ND		1.0	0.46	ug/L			03/14/22 14:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/14/22 14:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/14/22 14:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-617741/7
Matrix: Water
Analysis Batch: 617741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			03/14/22 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*03/14/22 14:35*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/14/22 14:35*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/14/22 14:35*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*03/14/22 14:35*	*1*

Lab Sample ID: LCS 480-617741/5
Matrix: Water
Analysis Batch: 617741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	76 - 120
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.9		ug/L		88	61 - 148
1,1-Dichloroethane	25.0	24.4		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	21.8		ug/L		87	66 - 127
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.8		ug/L		111	56 - 134
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
1,2-Dichlorobenzene	25.0	25.4		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	26.1		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	24.4		ug/L		97	76 - 120
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	77 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 120
2-Hexanone	125	139		ug/L		111	65 - 127
2-Butanone (MEK)	125	157		ug/L		126	57 - 140
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	162		ug/L		130	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	26.5		ug/L		106	80 - 122
Bromoform	25.0	26.9		ug/L		108	61 - 132
Bromomethane	25.0	22.7		ug/L		91	55 - 144
Carbon disulfide	25.0	23.0		ug/L		92	59 - 134
Carbon tetrachloride	25.0	24.1		ug/L		96	72 - 134
Chlorobenzene	25.0	24.7		ug/L		99	80 - 120
Dibromochloromethane	25.0	24.6		ug/L		98	75 - 125
Chloroethane	25.0	24.3		ug/L		97	69 - 136
Chloroform	25.0	22.1		ug/L		88	73 - 127
1,4-Dioxane	500	515		ug/L		103	50 - 150
Chloromethane	25.0	23.8		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	74 - 124
Cyclohexane	25.0	21.0		ug/L		84	59 - 135
Dichlorodifluoromethane	25.0	25.0		ug/L		100	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-617741/5
Matrix: Water
Analysis Batch: 617741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	24.6		ug/L		99	77 - 122
Methyl acetate	50.0	53.8		ug/L		108	74 - 133
Methyl tert-butyl ether	25.0	25.1		ug/L		101	77 - 120
Methylcyclohexane	25.0	22.9		ug/L		92	68 - 134
Methylene Chloride	25.0	24.3		ug/L		97	75 - 124
Styrene	25.0	26.5		ug/L		106	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
Trichloroethene	25.0	25.1		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	24.6		ug/L		99	62 - 150
Vinyl chloride	25.0	23.7		ug/L		95	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*

Lab Sample ID: MB 480-617835/7
Matrix: Water
Analysis Batch: 617835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/15/22 10:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/15/22 10:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/15/22 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/15/22 10:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/15/22 10:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/15/22 10:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/15/22 10:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/15/22 10:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/15/22 10:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/15/22 10:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/15/22 10:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/15/22 10:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/15/22 10:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/15/22 10:48	1
2-Hexanone	ND		5.0	1.2	ug/L			03/15/22 10:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/15/22 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/15/22 10:48	1
Acetone	ND		10	3.0	ug/L			03/15/22 10:48	1
Benzene	ND		1.0	0.41	ug/L			03/15/22 10:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/15/22 10:48	1
Bromoform	ND		1.0	0.26	ug/L			03/15/22 10:48	1
Bromomethane	ND		1.0	0.69	ug/L			03/15/22 10:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/15/22 10:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/15/22 10:48	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-617835/7
Matrix: Water
Analysis Batch: 617835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			03/15/22 10:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/15/22 10:48	1
Chloroethane	ND		1.0	0.32	ug/L			03/15/22 10:48	1
Chloroform	ND		1.0	0.34	ug/L			03/15/22 10:48	1
1,4-Dioxane	ND		40	9.3	ug/L			03/15/22 10:48	1
Chloromethane	ND		1.0	0.35	ug/L			03/15/22 10:48	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/15/22 10:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/15/22 10:48	1
Cyclohexane	ND		1.0	0.18	ug/L			03/15/22 10:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/15/22 10:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/15/22 10:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/15/22 10:48	1
Methyl acetate	ND		2.5	1.3	ug/L			03/15/22 10:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/15/22 10:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/15/22 10:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/15/22 10:48	1
Styrene	ND		1.0	0.73	ug/L			03/15/22 10:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/15/22 10:48	1
Toluene	ND		1.0	0.51	ug/L			03/15/22 10:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/15/22 10:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/15/22 10:48	1
Trichloroethene	ND		1.0	0.46	ug/L			03/15/22 10:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/15/22 10:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/15/22 10:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/15/22 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*03/15/22 10:48*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/15/22 10:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/15/22 10:48*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*03/15/22 10:48*	*1*

Lab Sample ID: LCS 480-617835/5
Matrix: Water
Analysis Batch: 617835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.9		ug/L		92	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.5		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	22.7		ug/L		91	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	17.2		ug/L		69	61 - 148
1,1-Dichloroethane	25.0	21.6		ug/L		86	77 - 120
1,1-Dichloroethene	25.0	19.5		ug/L		78	66 - 127
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		95	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	56 - 134
1,2-Dibromoethane	25.0	22.2		ug/L		89	77 - 120
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	23.9		ug/L		95	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-617835/5
Matrix: Water
Analysis Batch: 617835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	21.8		ug/L		87	76 - 120
1,3-Dichlorobenzene	25.0	24.4		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Hexanone	125	121		ug/L		97	65 - 127
2-Butanone (MEK)	125	124		ug/L		99	57 - 140
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	145		ug/L		116	56 - 142
Benzene	25.0	21.2		ug/L		85	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		102	80 - 122
Bromoform	25.0	27.0		ug/L		108	61 - 132
Bromomethane	25.0	22.8		ug/L		91	55 - 144
Carbon disulfide	25.0	19.0		ug/L		76	59 - 134
Carbon tetrachloride	25.0	22.0		ug/L		88	72 - 134
Chlorobenzene	25.0	23.7		ug/L		95	80 - 120
Dibromochloromethane	25.0	24.6		ug/L		98	75 - 125
Chloroethane	25.0	20.5		ug/L		82	69 - 136
Chloroform	25.0	21.2		ug/L		85	73 - 127
1,4-Dioxane	500	572		ug/L		114	50 - 150
Chloromethane	25.0	20.1		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	21.5		ug/L		86	74 - 124
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	74 - 124
Cyclohexane	25.0	17.6		ug/L		70	59 - 135
Dichlorodifluoromethane	25.0	18.2		ug/L		73	59 - 135
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Isopropylbenzene	25.0	22.3		ug/L		89	77 - 122
Methyl acetate	50.0	39.5		ug/L		79	74 - 133
Methyl tert-butyl ether	25.0	23.2		ug/L		93	77 - 120
Methylcyclohexane	25.0	17.2		ug/L		69	68 - 134
Methylene Chloride	25.0	21.2		ug/L		85	75 - 124
Styrene	25.0	23.3		ug/L		93	80 - 120
Tetrachloroethene	25.0	22.8		ug/L		91	74 - 122
Toluene	25.0	21.4		ug/L		86	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
Trichloroethene	25.0	21.7		ug/L		87	74 - 123
Trichlorofluoromethane	25.0	22.2		ug/L		89	62 - 150
Vinyl chloride	25.0	18.3		ug/L		73	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-618015/8
Matrix: Water
Analysis Batch: 618015

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/16/22 13:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/16/22 13:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/16/22 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/16/22 13:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/16/22 13:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/16/22 13:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/16/22 13:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/16/22 13:36	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/16/22 13:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/16/22 13:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/16/22 13:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/16/22 13:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/16/22 13:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/16/22 13:36	1
2-Hexanone	ND		5.0	1.2	ug/L			03/16/22 13:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/16/22 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/16/22 13:36	1
Acetone	ND		10	3.0	ug/L			03/16/22 13:36	1
Benzene	ND		1.0	0.41	ug/L			03/16/22 13:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/16/22 13:36	1
Bromoform	ND		1.0	0.26	ug/L			03/16/22 13:36	1
Bromomethane	ND		1.0	0.69	ug/L			03/16/22 13:36	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/16/22 13:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/16/22 13:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/16/22 13:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/16/22 13:36	1
Chloroethane	ND		1.0	0.32	ug/L			03/16/22 13:36	1
Chloroform	ND		1.0	0.34	ug/L			03/16/22 13:36	1
1,4-Dioxane	ND		40	9.3	ug/L			03/16/22 13:36	1
Chloromethane	ND		1.0	0.35	ug/L			03/16/22 13:36	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/16/22 13:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/16/22 13:36	1
Cyclohexane	ND		1.0	0.18	ug/L			03/16/22 13:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/16/22 13:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/16/22 13:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/16/22 13:36	1
Methyl acetate	ND		2.5	1.3	ug/L			03/16/22 13:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/16/22 13:36	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/16/22 13:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/16/22 13:36	1
Styrene	ND		1.0	0.73	ug/L			03/16/22 13:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/16/22 13:36	1
Toluene	ND		1.0	0.51	ug/L			03/16/22 13:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/16/22 13:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/16/22 13:36	1
Trichloroethene	ND		1.0	0.46	ug/L			03/16/22 13:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/16/22 13:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/16/22 13:36	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-618015/8
Matrix: Water
Analysis Batch: 618015

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			03/16/22 13:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/16/22 13:36*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*03/16/22 13:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*03/16/22 13:36*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*03/16/22 13:36*	*1*

Lab Sample ID: LCS 480-618015/6
Matrix: Water
Analysis Batch: 618015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	30.3		ug/L		121	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6		ug/L		103	61 - 148
1,1-Dichloroethane	25.0	22.9		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	23.3		ug/L		93	66 - 127
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	31.6		ug/L		126	56 - 134
1,2-Dibromoethane	25.0	28.7		ug/L		115	77 - 120
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	24.2		ug/L		97	76 - 120
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 120
2-Hexanone	125	135		ug/L		108	65 - 127
2-Butanone (MEK)	125	117		ug/L		93	57 - 140
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	94.6		ug/L		76	56 - 142
Benzene	25.0	24.4		ug/L		98	71 - 124
Bromodichloromethane	25.0	27.2		ug/L		109	80 - 122
Bromoform	25.0	31.1		ug/L		124	61 - 132
Bromomethane	25.0	21.8		ug/L		87	55 - 144
Carbon disulfide	25.0	23.8		ug/L		95	59 - 134
Carbon tetrachloride	25.0	32.8		ug/L		131	72 - 134
Chlorobenzene	25.0	24.6		ug/L		98	80 - 120
Dibromochloromethane	25.0	29.9		ug/L		120	75 - 125
Chloroethane	25.0	22.3		ug/L		89	69 - 136
Chloroform	25.0	23.4		ug/L		94	73 - 127
1,4-Dioxane	500	468		ug/L		94	50 - 150
Chloromethane	25.0	26.1		ug/L		104	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	30.8		ug/L		123	74 - 124
Cyclohexane	25.0	26.5		ug/L		106	59 - 135
Dichlorodifluoromethane	25.0	31.0		ug/L		124	59 - 135
Ethylbenzene	25.0	25.7		ug/L		103	77 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-618015/6
Matrix: Water
Analysis Batch: 618015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	25.5		ug/L		102	77 - 122
Methyl acetate	50.0	47.4		ug/L		95	74 - 133
Methyl tert-butyl ether	25.0	24.5		ug/L		98	77 - 120
Methylcyclohexane	25.0	27.8		ug/L		111	68 - 134
Methylene Chloride	25.0	23.6		ug/L		95	75 - 124
Styrene	25.0	26.6		ug/L		106	80 - 120
Tetrachloroethene	25.0	26.3		ug/L		105	74 - 122
Toluene	25.0	24.3		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	73 - 127
Trichloroethene	25.0	25.5		ug/L		102	74 - 123
Trichlorofluoromethane	25.0	24.7		ug/L		99	62 - 150
Vinyl chloride	25.0	26.1		ug/L		104	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-617547/1-A
Matrix: Water
Analysis Batch: 617752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 617547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/11/22 10:10	03/14/22 14:30	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*03/11/22 10:10*	*03/14/22 14:30*	*1*

Lab Sample ID: LCS 480-617547/2-A
Matrix: Water
Analysis Batch: 617752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 617547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	2.14		ug/L		107	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*30*		*15 - 110*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-617747/3
Matrix: Water
Analysis Batch: 617747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/14/22 12:27	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 480-617747/3
Matrix: Water
Analysis Batch: 617747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			03/14/22 12:27	1
Ethene	ND		7.0	1.5	ug/L			03/14/22 12:27	1

Lab Sample ID: LCS 480-617747/4
Matrix: Water
Analysis Batch: 617747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.4	16.9		ug/L		87	85 - 120
Ethane	36.3	33.2		ug/L		91	79 - 120
Ethene	34.0	32.9		ug/L		97	85 - 120

Lab Sample ID: MB 480-617931/3
Matrix: Water
Analysis Batch: 617931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/15/22 14:13	1
Ethane	ND		7.5	1.5	ug/L			03/15/22 14:13	1
Ethene	ND		7.0	1.5	ug/L			03/15/22 14:13	1

Lab Sample ID: LCS 480-617931/4
Matrix: Water
Analysis Batch: 617931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.4	17.8		ug/L		92	85 - 120
Ethane	36.3	35.1		ug/L		97	79 - 120
Ethene	34.0	34.6		ug/L		102	85 - 120

Lab Sample ID: LCSD 480-617931/5
Matrix: Water
Analysis Batch: 617931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	19.4	17.5		ug/L		90	85 - 120	1	50
Ethane	36.3	34.6		ug/L		95	79 - 120	2	50
Ethene	34.0	34.6		ug/L		102	85 - 120	0	50

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-618360/28
Matrix: Water
Analysis Batch: 618360

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/19/22 00:28	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-618360/4
Matrix: Water
Analysis Batch: 618360

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/18/22 17:02	1

Lab Sample ID: LCS 480-618360/29
Matrix: Water
Analysis Batch: 618360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.47		mg/L		97	90 - 110

Lab Sample ID: LCS 480-618360/5
Matrix: Water
Analysis Batch: 618360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.43		mg/L		97	90 - 110

Lab Sample ID: 480-195682-1 MS
Matrix: Water
Analysis Batch: 618360

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	328		250	559.4		mg/L		93	81 - 120

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-618795/3
Matrix: Water
Analysis Batch: 618795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			03/22/22 18:00	1

Lab Sample ID: LCS 480-618795/4
Matrix: Water
Analysis Batch: 618795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.98		mg/L		99	90 - 110

Lab Sample ID: 480-195682-1 MS
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	1.01		mg/L		101	70 - 130

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 480-195682-1 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195682-2 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-9D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	0.10	HF		0.111		mg/L				6	20

Lab Sample ID: 480-195682-3 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195682-4 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-20D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	0.22	HF		0.221		mg/L				0	20

Lab Sample ID: 480-195682-5 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 617741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-3	MW-20	Total/NA	Water	8260C	
480-195682-4	MW-20D	Total/NA	Water	8260C	
480-195682-5	MW-23	Total/NA	Water	8260C	
480-195682-6	TRIP BLANK	Total/NA	Water	8260C	
MB 480-617741/7	Method Blank	Total/NA	Water	8260C	
LCS 480-617741/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 617835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-1	MW-9R	Total/NA	Water	8260C	
MB 480-617835/7	Method Blank	Total/NA	Water	8260C	
LCS 480-617835/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 618015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-2	MW-9D	Total/NA	Water	8260C	
MB 480-618015/8	Method Blank	Total/NA	Water	8260C	
LCS 480-618015/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 617547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-1	MW-9R	Total/NA	Water	3510C	
480-195682-2	MW-9D	Total/NA	Water	3510C	
480-195682-3	MW-20	Total/NA	Water	3510C	
480-195682-4	MW-20D	Total/NA	Water	3510C	
480-195682-5	MW-23	Total/NA	Water	3510C	
MB 480-617547/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-617547/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 617752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-1	MW-9R	Total/NA	Water	8270D SIM ID	617547
480-195682-2	MW-9D	Total/NA	Water	8270D SIM ID	617547
480-195682-3	MW-20	Total/NA	Water	8270D SIM ID	617547
480-195682-4	MW-20D	Total/NA	Water	8270D SIM ID	617547
480-195682-5	MW-23	Total/NA	Water	8270D SIM ID	617547
MB 480-617547/1-A	Method Blank	Total/NA	Water	8270D SIM ID	617547
LCS 480-617547/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	617547

GC VOA

Analysis Batch: 617747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-1	MW-9R	Total/NA	Water	RSK-175	
480-195682-2	MW-9D	Total/NA	Water	RSK-175	
480-195682-4	MW-20D	Total/NA	Water	RSK-175	
480-195682-5	MW-23	Total/NA	Water	RSK-175	
MB 480-617747/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-617747/4	Lab Control Sample	Total/NA	Water	RSK-175	

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

GC VOA

Analysis Batch: 617931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-2 - DL	MW-9D	Total/NA	Water	RSK-175	
480-195682-3	MW-20	Total/NA	Water	RSK-175	
480-195682-4 - DL	MW-20D	Total/NA	Water	RSK-175	
MB 480-617931/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-617931/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-617931/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 618360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-1	MW-9R	Total/NA	Water	300.0	
480-195682-2	MW-9D	Total/NA	Water	300.0	
480-195682-3	MW-20	Total/NA	Water	300.0	
480-195682-4	MW-20D	Total/NA	Water	300.0	
480-195682-5	MW-23	Total/NA	Water	300.0	
MB 480-618360/28	Method Blank	Total/NA	Water	300.0	
MB 480-618360/4	Method Blank	Total/NA	Water	300.0	
LCS 480-618360/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-618360/5	Lab Control Sample	Total/NA	Water	300.0	
480-195682-1 MS	MW-9R	Total/NA	Water	300.0	

Analysis Batch: 618795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195682-1	MW-9R	Total/NA	Water	SM 3500 FE D	
480-195682-2	MW-9D	Total/NA	Water	SM 3500 FE D	
480-195682-3	MW-20	Total/NA	Water	SM 3500 FE D	
480-195682-4	MW-20D	Total/NA	Water	SM 3500 FE D	
480-195682-5	MW-23	Total/NA	Water	SM 3500 FE D	
MB 480-618795/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-618795/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-195682-1 MS	MW-9R	Total/NA	Water	SM 3500 FE D	
480-195682-1 DU	MW-9R	Total/NA	Water	SM 3500 FE D	
480-195682-2 DU	MW-9D	Total/NA	Water	SM 3500 FE D	
480-195682-3 DU	MW-20	Total/NA	Water	SM 3500 FE D	
480-195682-4 DU	MW-20D	Total/NA	Water	SM 3500 FE D	
480-195682-5 DU	MW-23	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-9R
Date Collected: 03/09/22 09:02
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617835	03/15/22 13:06	OMI	TAL BUF
Total/NA	Prep	3510C			617547	03/11/22 10:10	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617752	03/14/22 18:54	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617747	03/14/22 15:22	DSC	TAL BUF
Total/NA	Analysis	300.0		5	618360	03/18/22 23:13	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-9D
Date Collected: 03/09/22 13:42
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	618015	03/16/22 18:29	ATG	TAL BUF
Total/NA	Prep	3510C			617547	03/11/22 10:10	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617752	03/14/22 19:16	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617747	03/14/22 15:41	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	110	617931	03/15/22 17:23	DSC	TAL BUF
Total/NA	Analysis	300.0		5	618360	03/19/22 01:05	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-20
Date Collected: 03/09/22 12:15
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617741	03/14/22 19:47	OMI	TAL BUF
Total/NA	Prep	3510C			617547	03/11/22 10:10	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617752	03/14/22 19:38	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617931	03/15/22 17:42	DSC	TAL BUF
Total/NA	Analysis	300.0		5	618360	03/19/22 01:23	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-20D
Date Collected: 03/09/22 13:07
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617741	03/14/22 20:09	OMI	TAL BUF
Total/NA	Prep	3510C			617547	03/11/22 10:10	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617752	03/14/22 20:01	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617747	03/14/22 16:18	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	617931	03/15/22 18:01	DSC	TAL BUF
Total/NA	Analysis	300.0		5	618360	03/19/22 01:42	IMZ	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Client Sample ID: MW-20D
Date Collected: 03/09/22 13:07
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-23
Date Collected: 03/09/22 10:39
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617741	03/14/22 20:32	OMI	TAL BUF
Total/NA	Prep	3510C			617547	03/11/22 10:10	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617752	03/14/22 20:23	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		11	617747	03/14/22 16:37	DSC	TAL BUF
Total/NA	Analysis	300.0		5	618360	03/19/22 02:01	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: TRIP BLANK
Date Collected: 03/09/22 14:30
Date Received: 03/10/22 11:30

Lab Sample ID: 480-195682-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617741	03/14/22 20:55	OMI	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195682-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195682-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195682-1	MW-9R	Water	03/09/22 09:02	03/10/22 11:30
480-195682-2	MW-9D	Water	03/09/22 13:42	03/10/22 11:30
480-195682-3	MW-20	Water	03/09/22 12:15	03/10/22 11:30
480-195682-4	MW-20D	Water	03/09/22 13:07	03/10/22 11:30
480-195682-5	MW-23	Water	03/09/22 10:39	03/10/22 11:30
480-195682-6	TRIP BLANK	Water	03/09/22 14:30	03/10/22 11:30

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: R2D/TAB	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-169327-35579.1
Client Contact: Mr. Rick Dubisz	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Lackawanna	TAT Requested (days):			M - Hexane
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-856-0599(Tel)	PO #: B0400-022-001 001/001			
Email: rdubisz@bm-tk.com	WO #:			480-195682 Chain of Custody
Project Name: (Moog) Jamison Road Site- Elma, NY	Project #: 48016204			K - EDTA
Site:	SSOW#:			L - EDA
				Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Cl only	RSK_175 - Methane, Ethane, Ethene	8260C - (MOD) TCL list OLM04.2	8270D_SIM_MS_ID - SIM List	3500_FE_D - Ferrous Iron											Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	A	N	N												
~~MW-7~~				Water																			
~~MW-8R~~				Water																			
MW-9R	3/9/22	0902	G	Water			V	V	V	V	V												
MW-9D	3/9/22	1342	G	Water			V	V	V	V	V												
MW-20	3/9/22	1215	G	Water			V	V	V	V	V												
MW-20D	3/9/22	1307	G	Water																			
~~MW-21~~				Water																			
~~MW-22R~~				Water																			
MW-23	3/9/22	1039	G	Water			V	V	V	V	V												
~~MW-23D~~				Water																			
~~MW-24~~ TRIP BLANK	3/9/22	1430		Water					V														

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 3/9/22 1535	Company BM/TK	Received by:
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Received by:	Date/Time:	Company
	3/10/22 1130	TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.8 #1 ICE

Ver: 06/08/2021

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3/24/2022

Foxy

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-195682-1

Login Number: 195682
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BM/TK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-195725-1
Client Project/Site: (Moog) Jamison Road Site- Elma, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Michael Lesakowski

Authorized for release by:
3/23/2022 5:42:41 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

GC VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-195725-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-195725-1

Comments
No additional comments.

Receipt
The samples were received on 3/11/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.4º C, 2.6º C and 2.8º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-195725-1), MW-8R (480-195725-2), BLIND DUP (480-195725-3) and MW-24 (480-195725-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-21 (480-195725-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-23D (480-195725-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-617910 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated sample is impacted: (480-195725-F-3 MSD).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BLIND DUP (480-195725-3), (480-195725-F-3 MS) and (480-195725-F-3 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for sample MW-23D (480-195725-7) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-195725-1), MW-8R (480-195725-2), BLIND DUP (480-195725-3), MW-21 (480-195725-4), MW-22R (480-195725-5), MW-23D (480-195725-7) and MW-24 (480-195725-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-195725-1), MW-8R (480-195725-2), MW-8R (480-195725-2[MS]), MW-8R (480-195725-2[MSD]), BLIND DUP (480-195725-3) and MW-23D (480-195725-7). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-195725-1), BLIND DUP (480-195725-3), MW-23D (480-195725-7) and MW-24 (480-195725-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-195725-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

General Chemistry

Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-7 (480-195725-1), MW-8R (480-195725-2), MW-8R (480-195725-2[MS]), MW-8R (480-195725-2[MSD]), BLIND DUP (480-195725-3), MW-21 (480-195725-4), MW-22R (480-195725-5), EQUIP BLANK (480-195725-6), MW-23D (480-195725-7) and MW-24 (480-195725-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195725-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: MW-7 — Lab Sample ID: 480-195725-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	540		20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	880		20	7.6	ug/L	20		8260C	Total/NA
Chloroethane	7.8	J	20	6.4	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	75		20	16	ug/L	20		8260C	Total/NA
Vinyl chloride	61		20	18	ug/L	20		8260C	Total/NA
1,4-Dioxane	15		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane - DL	5300		180	44	ug/L	44		RSK-175	Total/NA
Chloride	1480		10.0	5.6	mg/L	20		300.0	Total/NA

Client Sample ID: MW-8R — Lab Sample ID: 480-195725-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	49		10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	510		10	3.8	ug/L	10		8260C	Total/NA
Chloroethane	13		10	3.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	37		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	28		10	9.0	ug/L	10		8260C	Total/NA
1,4-Dioxane	13		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	3500		180	44	ug/L	44		RSK-175	Total/NA
Chloride	1360		10.0	5.6	mg/L	20		300.0	Total/NA

Client Sample ID: BLIND DUP — Lab Sample ID: 480-195725-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	390	E	2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	720	E	2.0	0.76	ug/L	2		8260C	Total/NA
Benzene	2.1		2.0	0.82	ug/L	2		8260C	Total/NA
Chloroethane	6.3		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	64		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene	1.7	J	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	49		2.0	1.8	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	540		20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane - DL	920	F1	20	7.6	ug/L	20		8260C	Total/NA
Chloroethane - DL	7.4	J	20	6.4	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	76		20	16	ug/L	20		8260C	Total/NA
Vinyl chloride - DL	64		20	18	ug/L	20		8260C	Total/NA
1,4-Dioxane	15		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane - DL	4500		180	44	ug/L	44		RSK-175	Total/NA
Chloride	1470		10.0	5.6	mg/L	20		300.0	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 480-195725-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.75		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	38		4.0	1.0	ug/L	1		RSK-175	Total/NA
Chloride	1000		5.0	2.8	mg/L	10		300.0	Total/NA

Client Sample ID: MW-22R — Lab Sample ID: 480-195725-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.6		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	22		4.0	1.0	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195725-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: MW-22R (Continued) — Lab Sample ID: 480-195725-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	77.9		1.0	0.56	mg/L	2		300.0	Total/NA

Client Sample ID: EQUIP BLANK — Lab Sample ID: 480-195725-6

No Detections.

Client Sample ID: MW-23D — Lab Sample ID: 480-195725-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2	J	4.0	1.6	ug/L	4		8260C	Total/NA
Cyclohexane	47		4.0	0.72	ug/L	4		8260C	Total/NA
Ethylbenzene	3.1	J	4.0	3.0	ug/L	4		8260C	Total/NA
Methylcyclohexane	56		4.0	0.64	ug/L	4		8260C	Total/NA
Xylenes, Total	26		8.0	2.6	ug/L	4		8260C	Total/NA
1,4-Dioxane	26	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Ethane	110		83	17	ug/L	11		RSK-175	Total/NA
Methane - DL	3600		88	22	ug/L	22		RSK-175	Total/NA
Chloride	381		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: MW-24 — Lab Sample ID: 480-195725-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	840		10	3.8	ug/L	10		8260C	Total/NA
Chloroethane	4.8	J	10	3.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	29		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	52		10	9.0	ug/L	10		8260C	Total/NA
1,4-Dioxane	13		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Ethane	0.71		0.44	0.088	ug/L	1		RSK-175	Total/NA
Ethene	0.95		0.41	0.088	ug/L	1		RSK-175	Total/NA
Methane - DL	2700		88	22	ug/L	22		RSK-175	Total/NA
Chloride	1010		5.0	2.8	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-7
Date Collected: 03/10/22 10:05
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			03/15/22 00:17	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			03/15/22 00:17	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			03/15/22 00:17	20
1,1,2-Trichloro-1,2,2-trifluoroethane	**540**		20	6.2	ug/L			03/15/22 00:17	20
1,1-Dichloroethane	**880**		20	7.6	ug/L			03/15/22 00:17	20
1,1-Dichloroethene	ND		20	5.8	ug/L			03/15/22 00:17	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			03/15/22 00:17	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			03/15/22 00:17	20
1,2-Dibromoethane	ND		20	15	ug/L			03/15/22 00:17	20
1,2-Dichlorobenzene	ND		20	16	ug/L			03/15/22 00:17	20
1,2-Dichloroethane	ND		20	4.2	ug/L			03/15/22 00:17	20
1,2-Dichloropropane	ND		20	14	ug/L			03/15/22 00:17	20
1,3-Dichlorobenzene	ND		20	16	ug/L			03/15/22 00:17	20
1,4-Dichlorobenzene	ND		20	17	ug/L			03/15/22 00:17	20
2-Hexanone	ND		100	25	ug/L			03/15/22 00:17	20
2-Butanone (MEK)	ND		200	26	ug/L			03/15/22 00:17	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			03/15/22 00:17	20
Acetone	ND		200	60	ug/L			03/15/22 00:17	20
Benzene	ND		20	8.2	ug/L			03/15/22 00:17	20
Bromodichloromethane	ND		20	7.8	ug/L			03/15/22 00:17	20
Bromoform	ND		20	5.2	ug/L			03/15/22 00:17	20
Bromomethane	ND		20	14	ug/L			03/15/22 00:17	20
Carbon disulfide	ND		20	3.8	ug/L			03/15/22 00:17	20
Carbon tetrachloride	ND		20	5.4	ug/L			03/15/22 00:17	20
Chlorobenzene	ND		20	15	ug/L			03/15/22 00:17	20
Dibromochloromethane	ND		20	6.4	ug/L			03/15/22 00:17	20
Chloroethane	**7.8**	**J**	20	6.4	ug/L			03/15/22 00:17	20
Chloroform	ND		20	6.8	ug/L			03/15/22 00:17	20
1,4-Dioxane	ND		800	190	ug/L			03/15/22 00:17	20
Chloromethane	ND		20	7.0	ug/L			03/15/22 00:17	20
cis-1,2-Dichloroethene	**75**		20	16	ug/L			03/15/22 00:17	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			03/15/22 00:17	20
Cyclohexane	ND		20	3.6	ug/L			03/15/22 00:17	20
Dichlorodifluoromethane	ND		20	14	ug/L			03/15/22 00:17	20
Ethylbenzene	ND		20	15	ug/L			03/15/22 00:17	20
Isopropylbenzene	ND		20	16	ug/L			03/15/22 00:17	20
Methyl acetate	ND		50	26	ug/L			03/15/22 00:17	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			03/15/22 00:17	20
Methylcyclohexane	ND		20	3.2	ug/L			03/15/22 00:17	20
Methylene Chloride	ND		20	8.8	ug/L			03/15/22 00:17	20
Styrene	ND		20	15	ug/L			03/15/22 00:17	20
Tetrachloroethene	ND		20	7.2	ug/L			03/15/22 00:17	20
Toluene	ND		20	10	ug/L			03/15/22 00:17	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			03/15/22 00:17	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			03/15/22 00:17	20
Trichloroethene	ND		20	9.2	ug/L			03/15/22 00:17	20
Trichlorofluoromethane	ND		20	18	ug/L			03/15/22 00:17	20
Vinyl chloride	**61**		20	18	ug/L			03/15/22 00:17	20
Xylenes, Total	ND		40	13	ug/L			03/15/22 00:17	20

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-7
Date Collected: 03/10/22 10:05
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/15/22 00:17*	*20*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/15/22 00:17*	*20*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*03/15/22 00:17*	*20*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/15/22 00:17*	*20*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 19:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/14/22 09:36*	*03/15/22 19:10*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		83	17	ug/L			03/14/22 16:56	11
Ethene	ND		77	17	ug/L			03/14/22 16:56	11

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5300**		180	44	ug/L			03/15/22 18:39	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1480**		10.0	5.6	mg/L			03/18/22 23:48	20
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-8R
Date Collected: 03/10/22 09:05
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			03/15/22 00:39	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			03/15/22 00:39	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			03/15/22 00:39	10
1,1,2-Trichloro-1,2,2-trifluoroethane	**49**		10	3.1	ug/L			03/15/22 00:39	10
1,1-Dichloroethane	**510**		10	3.8	ug/L			03/15/22 00:39	10
1,1-Dichloroethene	ND		10	2.9	ug/L			03/15/22 00:39	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			03/15/22 00:39	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			03/15/22 00:39	10
1,2-Dibromoethane	ND		10	7.3	ug/L			03/15/22 00:39	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			03/15/22 00:39	10
1,2-Dichloroethane	ND		10	2.1	ug/L			03/15/22 00:39	10
1,2-Dichloropropane	ND		10	7.2	ug/L			03/15/22 00:39	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			03/15/22 00:39	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			03/15/22 00:39	10
2-Hexanone	ND		50	12	ug/L			03/15/22 00:39	10
2-Butanone (MEK)	ND		100	13	ug/L			03/15/22 00:39	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			03/15/22 00:39	10
Acetone	ND		100	30	ug/L			03/15/22 00:39	10
Benzene	ND		10	4.1	ug/L			03/15/22 00:39	10
Bromodichloromethane	ND		10	3.9	ug/L			03/15/22 00:39	10
Bromoform	ND		10	2.6	ug/L			03/15/22 00:39	10
Bromomethane	ND		10	6.9	ug/L			03/15/22 00:39	10
Carbon disulfide	ND		10	1.9	ug/L			03/15/22 00:39	10
Carbon tetrachloride	ND		10	2.7	ug/L			03/15/22 00:39	10
Chlorobenzene	ND		10	7.5	ug/L			03/15/22 00:39	10
Dibromochloromethane	ND		10	3.2	ug/L			03/15/22 00:39	10
Chloroethane	**13**		10	3.2	ug/L			03/15/22 00:39	10
Chloroform	ND		10	3.4	ug/L			03/15/22 00:39	10
1,4-Dioxane	ND	F2	400	93	ug/L			03/15/22 00:39	10
Chloromethane	ND		10	3.5	ug/L			03/15/22 00:39	10
cis-1,2-Dichloroethene	**37**		10	8.1	ug/L			03/15/22 00:39	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			03/15/22 00:39	10
Cyclohexane	ND		10	1.8	ug/L			03/15/22 00:39	10
Dichlorodifluoromethane	ND	F1	10	6.8	ug/L			03/15/22 00:39	10
Ethylbenzene	ND		10	7.4	ug/L			03/15/22 00:39	10
Isopropylbenzene	ND		10	7.9	ug/L			03/15/22 00:39	10
Methyl acetate	ND		25	13	ug/L			03/15/22 00:39	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			03/15/22 00:39	10
Methylcyclohexane	ND		10	1.6	ug/L			03/15/22 00:39	10
Methylene Chloride	ND		10	4.4	ug/L			03/15/22 00:39	10
Styrene	ND		10	7.3	ug/L			03/15/22 00:39	10
Tetrachloroethene	ND		10	3.6	ug/L			03/15/22 00:39	10
Toluene	ND		10	5.1	ug/L			03/15/22 00:39	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			03/15/22 00:39	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			03/15/22 00:39	10
Trichloroethene	ND		10	4.6	ug/L			03/15/22 00:39	10
Trichlorofluoromethane	ND		10	8.8	ug/L			03/15/22 00:39	10
Vinyl chloride	**28**		10	9.0	ug/L			03/15/22 00:39	10
Xylenes, Total	ND		20	6.6	ug/L			03/15/22 00:39	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-8R
Date Collected: 03/10/22 09:05
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/15/22 00:39*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/15/22 00:39*	*10*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*03/15/22 00:39*	*10*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*03/15/22 00:39*	*10*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**13**		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 15:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*03/14/22 09:36*	*03/15/22 15:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3500**		180	44	ug/L			03/14/22 14:25	44
Ethane	ND		330	66	ug/L			03/14/22 14:25	44
Ethene	ND		310	66	ug/L			03/14/22 14:25	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1360**		10.0	5.6	mg/L			03/18/22 20:52	20
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: BLIND DUP
Date Collected: 03/10/22 11:00
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/15/22 01:01	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/15/22 01:01	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/15/22 01:01	2
1,1,2-Trichloro-1,2,2-trifluoroethane	**390**	**E**	2.0	0.62	ug/L			03/15/22 01:01	2
1,1-Dichloroethane	**720**	**E**	2.0	0.76	ug/L			03/15/22 01:01	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/15/22 01:01	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			03/15/22 01:01	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			03/15/22 01:01	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			03/15/22 01:01	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			03/15/22 01:01	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/15/22 01:01	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/15/22 01:01	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			03/15/22 01:01	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			03/15/22 01:01	2
2-Hexanone	ND		10	2.5	ug/L			03/15/22 01:01	2
2-Butanone (MEK)	ND		20	2.6	ug/L			03/15/22 01:01	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			03/15/22 01:01	2
Acetone	ND		20	6.0	ug/L			03/15/22 01:01	2
Benzene	**2.1**		2.0	0.82	ug/L			03/15/22 01:01	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/15/22 01:01	2
Bromoform	ND		2.0	0.52	ug/L			03/15/22 01:01	2
Bromomethane	ND		2.0	1.4	ug/L			03/15/22 01:01	2
Carbon disulfide	ND		2.0	0.38	ug/L			03/15/22 01:01	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/15/22 01:01	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/15/22 01:01	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/15/22 01:01	2
Chloroethane	**6.3**		2.0	0.64	ug/L			03/15/22 01:01	2
Chloroform	ND		2.0	0.68	ug/L			03/15/22 01:01	2
1,4-Dioxane	ND		80	19	ug/L			03/15/22 01:01	2
Chloromethane	ND		2.0	0.70	ug/L			03/15/22 01:01	2
cis-1,2-Dichloroethene	**64**		2.0	1.6	ug/L			03/15/22 01:01	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/15/22 01:01	2
Cyclohexane	ND		2.0	0.36	ug/L			03/15/22 01:01	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			03/15/22 01:01	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/15/22 01:01	2
Isopropylbenzene	ND		2.0	1.6	ug/L			03/15/22 01:01	2
Methyl acetate	ND		5.0	2.6	ug/L			03/15/22 01:01	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			03/15/22 01:01	2
Methylcyclohexane	ND		2.0	0.32	ug/L			03/15/22 01:01	2
Methylene Chloride	ND		2.0	0.88	ug/L			03/15/22 01:01	2
Styrene	ND		2.0	1.5	ug/L			03/15/22 01:01	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/15/22 01:01	2
Toluene	ND		2.0	1.0	ug/L			03/15/22 01:01	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/15/22 01:01	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/15/22 01:01	2
Trichloroethene	**1.7**	**J**	2.0	0.92	ug/L			03/15/22 01:01	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			03/15/22 01:01	2
Vinyl chloride	**49**		2.0	1.8	ug/L			03/15/22 01:01	2
Xylenes, Total	ND		4.0	1.3	ug/L			03/15/22 01:01	2

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: BLIND DUP
Date Collected: 03/10/22 11:00
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*03/15/22 01:01*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/15/22 01:01*	*2*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/15/22 01:01*	*2*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*03/15/22 01:01*	*2*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			03/16/22 05:34	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			03/16/22 05:34	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			03/16/22 05:34	20
1,1,2-Trichloro-1,2,2-trifluoroethane	**540**		20	6.2	ug/L			03/16/22 05:34	20
1,1-Dichloroethane	**920**	**F1**	20	7.6	ug/L			03/16/22 05:34	20
1,1-Dichloroethene	ND		20	5.8	ug/L			03/16/22 05:34	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			03/16/22 05:34	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			03/16/22 05:34	20
1,2-Dibromoethane	ND		20	15	ug/L			03/16/22 05:34	20
1,2-Dichlorobenzene	ND		20	16	ug/L			03/16/22 05:34	20
1,2-Dichloroethane	ND		20	4.2	ug/L			03/16/22 05:34	20
1,2-Dichloropropane	ND		20	14	ug/L			03/16/22 05:34	20
1,3-Dichlorobenzene	ND		20	16	ug/L			03/16/22 05:34	20
1,4-Dichlorobenzene	ND		20	17	ug/L			03/16/22 05:34	20
2-Hexanone	ND	F2	100	25	ug/L			03/16/22 05:34	20
2-Butanone (MEK)	ND		200	26	ug/L			03/16/22 05:34	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			03/16/22 05:34	20
Acetone	ND		200	60	ug/L			03/16/22 05:34	20
Benzene	ND		20	8.2	ug/L			03/16/22 05:34	20
Bromodichloromethane	ND		20	7.8	ug/L			03/16/22 05:34	20
Bromoform	ND		20	5.2	ug/L			03/16/22 05:34	20
Bromomethane	ND		20	14	ug/L			03/16/22 05:34	20
Carbon disulfide	ND		20	3.8	ug/L			03/16/22 05:34	20
Carbon tetrachloride	ND		20	5.4	ug/L			03/16/22 05:34	20
Chlorobenzene	ND		20	15	ug/L			03/16/22 05:34	20
Dibromochloromethane	ND		20	6.4	ug/L			03/16/22 05:34	20
Chloroethane	**7.4**	**J**	20	6.4	ug/L			03/16/22 05:34	20
Chloroform	ND		20	6.8	ug/L			03/16/22 05:34	20
1,4-Dioxane	ND		800	190	ug/L			03/16/22 05:34	20
Chloromethane	ND		20	7.0	ug/L			03/16/22 05:34	20
cis-1,2-Dichloroethene	**76**		20	16	ug/L			03/16/22 05:34	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			03/16/22 05:34	20
Cyclohexane	ND		20	3.6	ug/L			03/16/22 05:34	20
Dichlorodifluoromethane	ND	F1	20	14	ug/L			03/16/22 05:34	20
Ethylbenzene	ND		20	15	ug/L			03/16/22 05:34	20
Isopropylbenzene	ND	F1	20	16	ug/L			03/16/22 05:34	20
Methyl acetate	ND		50	26	ug/L			03/16/22 05:34	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			03/16/22 05:34	20
Methylcyclohexane	ND		20	3.2	ug/L			03/16/22 05:34	20
Methylene Chloride	ND		20	8.8	ug/L			03/16/22 05:34	20
Styrene	ND		20	15	ug/L			03/16/22 05:34	20
Tetrachloroethene	ND		20	7.2	ug/L			03/16/22 05:34	20

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: BLIND DUP
Date Collected: 03/10/22 11:00
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		20	10	ug/L			03/16/22 05:34	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			03/16/22 05:34	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			03/16/22 05:34	20
Trichloroethene	ND		20	9.2	ug/L			03/16/22 05:34	20
Trichlorofluoromethane	ND		20	18	ug/L			03/16/22 05:34	20
Vinyl chloride	**64**		20	18	ug/L			03/16/22 05:34	20
Xylenes, Total	ND		40	13	ug/L			03/16/22 05:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*03/16/22 05:34*	*20*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/16/22 05:34*	*20*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*03/16/22 05:34*	*20*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*03/16/22 05:34*	*20*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 19:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/14/22 09:36*	*03/15/22 19:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		83	17	ug/L			03/14/22 17:34	11
Ethene	ND		77	17	ug/L			03/14/22 17:34	11

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4500**		180	44	ug/L			03/15/22 18:58	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1470**		10.0	5.6	mg/L			03/19/22 00:08	20
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-21
Date Collected: 03/10/22 13:06
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/15/22 01:23	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/15/22 01:23	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/15/22 01:23	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			03/15/22 01:23	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			03/15/22 01:23	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/15/22 01:23	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			03/15/22 01:23	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			03/15/22 01:23	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			03/15/22 01:23	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			03/15/22 01:23	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/15/22 01:23	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/15/22 01:23	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			03/15/22 01:23	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			03/15/22 01:23	2
2-Hexanone	ND		10	2.5	ug/L			03/15/22 01:23	2
2-Butanone (MEK)	ND		20	2.6	ug/L			03/15/22 01:23	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			03/15/22 01:23	2
Acetone	ND		20	6.0	ug/L			03/15/22 01:23	2
Benzene	ND		2.0	0.82	ug/L			03/15/22 01:23	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/15/22 01:23	2
Bromoform	ND		2.0	0.52	ug/L			03/15/22 01:23	2
Bromomethane	ND		2.0	1.4	ug/L			03/15/22 01:23	2
Carbon disulfide	ND		2.0	0.38	ug/L			03/15/22 01:23	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/15/22 01:23	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/15/22 01:23	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/15/22 01:23	2
Chloroethane	ND		2.0	0.64	ug/L			03/15/22 01:23	2
Chloroform	ND		2.0	0.68	ug/L			03/15/22 01:23	2
1,4-Dioxane	ND		80	19	ug/L			03/15/22 01:23	2
Chloromethane	ND		2.0	0.70	ug/L			03/15/22 01:23	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			03/15/22 01:23	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/15/22 01:23	2
Cyclohexane	ND		2.0	0.36	ug/L			03/15/22 01:23	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			03/15/22 01:23	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/15/22 01:23	2
Isopropylbenzene	ND		2.0	1.6	ug/L			03/15/22 01:23	2
Methyl acetate	ND		5.0	2.6	ug/L			03/15/22 01:23	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			03/15/22 01:23	2
Methylcyclohexane	ND		2.0	0.32	ug/L			03/15/22 01:23	2
Methylene Chloride	ND		2.0	0.88	ug/L			03/15/22 01:23	2
Styrene	ND		2.0	1.5	ug/L			03/15/22 01:23	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/15/22 01:23	2
Toluene	ND		2.0	1.0	ug/L			03/15/22 01:23	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/15/22 01:23	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/15/22 01:23	2
Trichloroethene	ND		2.0	0.92	ug/L			03/15/22 01:23	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			03/15/22 01:23	2
Vinyl chloride	ND		2.0	1.8	ug/L			03/15/22 01:23	2
Xylenes, Total	ND		4.0	1.3	ug/L			03/15/22 01:23	2

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-21

Date Collected: 03/10/22 13:06
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*03/15/22 01:23*	*2*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/15/22 01:23*	*2*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*03/15/22 01:23*	*2*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*03/15/22 01:23*	*2*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.75**		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 19:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/14/22 09:36*	*03/15/22 19:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**38**		4.0	1.0	ug/L			03/14/22 17:53	1
Ethane	ND		7.5	1.5	ug/L			03/14/22 17:53	1
Ethene	ND		7.0	1.5	ug/L			03/14/22 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		5.0	2.8	mg/L			03/19/22 00:27	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-22R
Date Collected: 03/10/22 12:12
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/15/22 01:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/15/22 01:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/15/22 01:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/15/22 01:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/15/22 01:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/15/22 01:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/15/22 01:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/15/22 01:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/15/22 01:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/15/22 01:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/15/22 01:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/15/22 01:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/15/22 01:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/15/22 01:45	1
2-Hexanone	ND		5.0	1.2	ug/L			03/15/22 01:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/15/22 01:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/15/22 01:45	1
Acetone	ND		10	3.0	ug/L			03/15/22 01:45	1
Benzene	ND		1.0	0.41	ug/L			03/15/22 01:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/15/22 01:45	1
Bromoform	ND		1.0	0.26	ug/L			03/15/22 01:45	1
Bromomethane	ND		1.0	0.69	ug/L			03/15/22 01:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/15/22 01:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/15/22 01:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/15/22 01:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/15/22 01:45	1
Chloroethane	ND		1.0	0.32	ug/L			03/15/22 01:45	1
Chloroform	ND		1.0	0.34	ug/L			03/15/22 01:45	1
1,4-Dioxane	ND		40	9.3	ug/L			03/15/22 01:45	1
Chloromethane	ND		1.0	0.35	ug/L			03/15/22 01:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/15/22 01:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/15/22 01:45	1
Cyclohexane	ND		1.0	0.18	ug/L			03/15/22 01:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/15/22 01:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/15/22 01:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/15/22 01:45	1
Methyl acetate	ND		2.5	1.3	ug/L			03/15/22 01:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/15/22 01:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/15/22 01:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/15/22 01:45	1
Styrene	ND		1.0	0.73	ug/L			03/15/22 01:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/15/22 01:45	1
Toluene	ND		1.0	0.51	ug/L			03/15/22 01:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/15/22 01:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/15/22 01:45	1
Trichloroethene	ND		1.0	0.46	ug/L			03/15/22 01:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/15/22 01:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/15/22 01:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/15/22 01:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-22R

Date Collected: 03/10/22 12:12
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/15/22 01:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/15/22 01:45*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*03/15/22 01:45*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/15/22 01:45*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.6**		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 20:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/14/22 09:36*	*03/15/22 20:15*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**22**		4.0	1.0	ug/L			03/14/22 18:12	1
Ethane	ND		7.5	1.5	ug/L			03/14/22 18:12	1
Ethene	ND		7.0	1.5	ug/L			03/14/22 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.9**		1.0	0.56	mg/L			03/19/22 00:47	2
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: EQUIP BLANK
Date Collected: 03/10/22 13:37
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/15/22 02:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/15/22 02:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/15/22 02:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/15/22 02:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/15/22 02:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/15/22 02:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/15/22 02:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/15/22 02:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/15/22 02:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/15/22 02:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/15/22 02:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/15/22 02:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/15/22 02:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/15/22 02:07	1
2-Hexanone	ND		5.0	1.2	ug/L			03/15/22 02:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/15/22 02:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/15/22 02:07	1
Acetone	ND		10	3.0	ug/L			03/15/22 02:07	1
Benzene	ND		1.0	0.41	ug/L			03/15/22 02:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/15/22 02:07	1
Bromoform	ND		1.0	0.26	ug/L			03/15/22 02:07	1
Bromomethane	ND		1.0	0.69	ug/L			03/15/22 02:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/15/22 02:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/15/22 02:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/15/22 02:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/15/22 02:07	1
Chloroethane	ND		1.0	0.32	ug/L			03/15/22 02:07	1
Chloroform	ND		1.0	0.34	ug/L			03/15/22 02:07	1
1,4-Dioxane	ND		40	9.3	ug/L			03/15/22 02:07	1
Chloromethane	ND		1.0	0.35	ug/L			03/15/22 02:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/15/22 02:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/15/22 02:07	1
Cyclohexane	ND		1.0	0.18	ug/L			03/15/22 02:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/15/22 02:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/15/22 02:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/15/22 02:07	1
Methyl acetate	ND		2.5	1.3	ug/L			03/15/22 02:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/15/22 02:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/15/22 02:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/15/22 02:07	1
Styrene	ND		1.0	0.73	ug/L			03/15/22 02:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/15/22 02:07	1
Toluene	ND		1.0	0.51	ug/L			03/15/22 02:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/15/22 02:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/15/22 02:07	1
Trichloroethene	ND		1.0	0.46	ug/L			03/15/22 02:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/15/22 02:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/15/22 02:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/15/22 02:07	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: EQUIP BLANK

Lab Sample ID: 480-195725-6

Date Collected: 03/10/22 13:37

Matrix: Water

Date Received: 03/11/22 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*03/15/22 02:07*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/15/22 02:07*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*03/15/22 02:07*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/15/22 02:07*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 20:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/14/22 09:36*	*03/15/22 20:36*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/14/22 18:30	1
Ethane	ND		7.5	1.5	ug/L			03/14/22 18:30	1
Ethene	ND		7.0	1.5	ug/L			03/14/22 18:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/19/22 01:06	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-23D
Date Collected: 03/10/22 12:40
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/15/22 02:30	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/15/22 02:30	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/15/22 02:30	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			03/15/22 02:30	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			03/15/22 02:30	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/15/22 02:30	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/15/22 02:30	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/15/22 02:30	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			03/15/22 02:30	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/15/22 02:30	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/15/22 02:30	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/15/22 02:30	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/15/22 02:30	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/15/22 02:30	4
2-Hexanone	ND		20	5.0	ug/L			03/15/22 02:30	4
2-Butanone (MEK)	ND		40	5.3	ug/L			03/15/22 02:30	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			03/15/22 02:30	4
Acetone	ND		40	12	ug/L			03/15/22 02:30	4
Benzene	**3.2**	**J**	4.0	1.6	ug/L			03/15/22 02:30	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/15/22 02:30	4
Bromoform	ND		4.0	1.0	ug/L			03/15/22 02:30	4
Bromomethane	ND		4.0	2.8	ug/L			03/15/22 02:30	4
Carbon disulfide	ND		4.0	0.76	ug/L			03/15/22 02:30	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/15/22 02:30	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/15/22 02:30	4
Dibromochloromethane	ND		4.0	1.3	ug/L			03/15/22 02:30	4
Chloroethane	ND		4.0	1.3	ug/L			03/15/22 02:30	4
Chloroform	ND		4.0	1.4	ug/L			03/15/22 02:30	4
1,4-Dioxane	ND		160	37	ug/L			03/15/22 02:30	4
Chloromethane	ND		4.0	1.4	ug/L			03/15/22 02:30	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			03/15/22 02:30	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/15/22 02:30	4
Cyclohexane	**47**		4.0	0.72	ug/L			03/15/22 02:30	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			03/15/22 02:30	4
Ethylbenzene	**3.1**	**J**	4.0	3.0	ug/L			03/15/22 02:30	4
Isopropylbenzene	ND		4.0	3.2	ug/L			03/15/22 02:30	4
Methyl acetate	ND		10	5.2	ug/L			03/15/22 02:30	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			03/15/22 02:30	4
Methylcyclohexane	**56**		4.0	0.64	ug/L			03/15/22 02:30	4
Methylene Chloride	ND		4.0	1.8	ug/L			03/15/22 02:30	4
Styrene	ND		4.0	2.9	ug/L			03/15/22 02:30	4
Tetrachloroethene	ND		4.0	1.4	ug/L			03/15/22 02:30	4
Toluene	ND		4.0	2.0	ug/L			03/15/22 02:30	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/15/22 02:30	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/15/22 02:30	4
Trichloroethene	ND		4.0	1.8	ug/L			03/15/22 02:30	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			03/15/22 02:30	4
Vinyl chloride	ND		4.0	3.6	ug/L			03/15/22 02:30	4
Xylenes, Total	**26**		8.0	2.6	ug/L			03/15/22 02:30	4

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-23D

Date Collected: 03/10/22 12:40
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*03/15/22 02:30*	*4*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/15/22 02:30*	*4*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*03/15/22 02:30*	*4*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*03/15/22 02:30*	*4*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**26**	**E**	0.20	0.10	ug/L		03/14/22 09:36	03/15/22 20:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*15 - 110*	*03/14/22 09:36*	*03/15/22 20:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**110**		83	17	ug/L			03/14/22 18:49	11
Ethene	ND		77	17	ug/L			03/14/22 18:49	11

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3600**		88	22	ug/L			03/15/22 19:16	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**381**		2.5	1.4	mg/L			03/19/22 03:04	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-24
Date Collected: 03/10/22 11:16
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			03/15/22 02:52	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			03/15/22 02:52	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			03/15/22 02:52	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			03/15/22 02:52	10
1,1-Dichloroethane	**840**		10	3.8	ug/L			03/15/22 02:52	10
1,1-Dichloroethene	ND		10	2.9	ug/L			03/15/22 02:52	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			03/15/22 02:52	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			03/15/22 02:52	10
1,2-Dibromoethane	ND		10	7.3	ug/L			03/15/22 02:52	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			03/15/22 02:52	10
1,2-Dichloroethane	ND		10	2.1	ug/L			03/15/22 02:52	10
1,2-Dichloropropane	ND		10	7.2	ug/L			03/15/22 02:52	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			03/15/22 02:52	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			03/15/22 02:52	10
2-Hexanone	ND		50	12	ug/L			03/15/22 02:52	10
2-Butanone (MEK)	ND		100	13	ug/L			03/15/22 02:52	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			03/15/22 02:52	10
Acetone	ND		100	30	ug/L			03/15/22 02:52	10
Benzene	ND		10	4.1	ug/L			03/15/22 02:52	10
Bromodichloromethane	ND		10	3.9	ug/L			03/15/22 02:52	10
Bromoform	ND		10	2.6	ug/L			03/15/22 02:52	10
Bromomethane	ND		10	6.9	ug/L			03/15/22 02:52	10
Carbon disulfide	ND		10	1.9	ug/L			03/15/22 02:52	10
Carbon tetrachloride	ND		10	2.7	ug/L			03/15/22 02:52	10
Chlorobenzene	ND		10	7.5	ug/L			03/15/22 02:52	10
Dibromochloromethane	ND		10	3.2	ug/L			03/15/22 02:52	10
Chloroethane	**4.8**	**J**	10	3.2	ug/L			03/15/22 02:52	10
Chloroform	ND		10	3.4	ug/L			03/15/22 02:52	10
1,4-Dioxane	ND		400	93	ug/L			03/15/22 02:52	10
Chloromethane	ND		10	3.5	ug/L			03/15/22 02:52	10
cis-1,2-Dichloroethene	**29**		10	8.1	ug/L			03/15/22 02:52	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			03/15/22 02:52	10
Cyclohexane	ND		10	1.8	ug/L			03/15/22 02:52	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			03/15/22 02:52	10
Ethylbenzene	ND		10	7.4	ug/L			03/15/22 02:52	10
Isopropylbenzene	ND		10	7.9	ug/L			03/15/22 02:52	10
Methyl acetate	ND		25	13	ug/L			03/15/22 02:52	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			03/15/22 02:52	10
Methylcyclohexane	ND		10	1.6	ug/L			03/15/22 02:52	10
Methylene Chloride	ND		10	4.4	ug/L			03/15/22 02:52	10
Styrene	ND		10	7.3	ug/L			03/15/22 02:52	10
Tetrachloroethene	ND		10	3.6	ug/L			03/15/22 02:52	10
Toluene	ND		10	5.1	ug/L			03/15/22 02:52	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			03/15/22 02:52	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			03/15/22 02:52	10
Trichloroethene	ND		10	4.6	ug/L			03/15/22 02:52	10
Trichlorofluoromethane	ND		10	8.8	ug/L			03/15/22 02:52	10
Vinyl chloride	**52**		10	9.0	ug/L			03/15/22 02:52	10
Xylenes, Total	ND		20	6.6	ug/L			03/15/22 02:52	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Client Sample ID: MW-24

Date Collected: 03/10/22 11:16
Date Received: 03/11/22 10:30

Lab Sample ID: 480-195725-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*03/15/22 02:52*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/15/22 02:52*	*10*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*03/15/22 02:52*	*10*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/15/22 02:52*	*10*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**13**		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 21:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*15 - 110*	*03/14/22 09:36*	*03/15/22 21:21*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**0.71**		0.44	0.088	ug/L			03/14/22 19:08	1
Ethene	**0.95**		0.41	0.088	ug/L			03/14/22 19:08	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2700**		88	22	ug/L			03/15/22 19:35	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		5.0	2.8	mg/L			03/19/22 03:24	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/22/22 18:00	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-195725-1	MW-7	108	102	90	108
480-195725-2	MW-8R	108	100	93	107
480-195725-2 MS	MW-8R	107	106	89	109
480-195725-2 MSD	MW-8R	104	101	92	102
480-195725-3	BLIND DUP	105	96	97	102
480-195725-3 - DL	BLIND DUP	111	102	87	112
480-195725-3 MS	BLIND DUP	105	102	92	101
480-195725-3 MSD	BLIND DUP	105	104	88	108
480-195725-4	MW-21	111	102	89	111
480-195725-5	MW-22R	108	100	91	108
480-195725-6	EQUIP BLANK	110	100	91	110
480-195725-7	MW-23D	111	101	90	107
480-195725-8	MW-24	110	103	90	110
LCS 480-617790/6	Lab Control Sample	102	102	92	101
LCS 480-617910/6	Lab Control Sample	103	102	90	103
MB 480-617790/8	Method Blank	104	96	96	102
MB 480-617910/8	Method Blank	106	101	92	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195725-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		DXE						
Lab Sample ID	Client Sample ID	(15-110)						
480-195725-1	MW-7	33						
480-195725-2	MW-8R	29						
480-195725-2 MS	MW-8R	34						
480-195725-2 MSD	MW-8R	31						
480-195725-3	BLIND DUP	35						
480-195725-4	MW-21	33						
480-195725-5	MW-22R	35						
480-195725-6	EQUIP BLANK	35						
480-195725-7	MW-23D	25						
480-195725-8	MW-24	25						
LCS 480-617715/2-A	Lab Control Sample	35						
MB 480-617715/1-A	Method Blank	35						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-617790/8
Matrix: Water
Analysis Batch: 617790

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/14/22 23:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/14/22 23:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/14/22 23:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/14/22 23:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/14/22 23:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/14/22 23:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/14/22 23:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/14/22 23:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/14/22 23:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/14/22 23:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/14/22 23:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/14/22 23:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/14/22 23:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/14/22 23:54	1
2-Hexanone	ND		5.0	1.2	ug/L			03/14/22 23:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/14/22 23:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/14/22 23:54	1
Acetone	ND		10	3.0	ug/L			03/14/22 23:54	1
Benzene	ND		1.0	0.41	ug/L			03/14/22 23:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/14/22 23:54	1
Bromoform	ND		1.0	0.26	ug/L			03/14/22 23:54	1
Bromomethane	ND		1.0	0.69	ug/L			03/14/22 23:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/14/22 23:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/14/22 23:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/14/22 23:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/14/22 23:54	1
Chloroethane	ND		1.0	0.32	ug/L			03/14/22 23:54	1
Chloroform	ND		1.0	0.34	ug/L			03/14/22 23:54	1
1,4-Dioxane	ND		40	9.3	ug/L			03/14/22 23:54	1
Chloromethane	ND		1.0	0.35	ug/L			03/14/22 23:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/14/22 23:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/14/22 23:54	1
Cyclohexane	ND		1.0	0.18	ug/L			03/14/22 23:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/14/22 23:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/14/22 23:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/14/22 23:54	1
Methyl acetate	ND		2.5	1.3	ug/L			03/14/22 23:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/14/22 23:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/14/22 23:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/14/22 23:54	1
Styrene	ND		1.0	0.73	ug/L			03/14/22 23:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/14/22 23:54	1
Toluene	ND		1.0	0.51	ug/L			03/14/22 23:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/14/22 23:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/14/22 23:54	1
Trichloroethene	ND		1.0	0.46	ug/L			03/14/22 23:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/14/22 23:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/14/22 23:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-617790/8
Matrix: Water
Analysis Batch: 617790

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			03/14/22 23:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/14/22 23:54*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/14/22 23:54*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*03/14/22 23:54*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*03/14/22 23:54*	*1*

Lab Sample ID: LCS 480-617790/6
Matrix: Water
Analysis Batch: 617790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.5		ug/L		110	76 - 120
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.0		ug/L		92	61 - 148
1,1-Dichloroethane	25.0	25.7		ug/L		103	77 - 120
1,1-Dichloroethene	25.0	23.8		ug/L		95	66 - 127
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.4		ug/L		109	56 - 134
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	25.6		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	24.6		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 120
2-Hexanone	125	124		ug/L		99	65 - 127
2-Butanone (MEK)	125	132		ug/L		106	57 - 140
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	71 - 125
Acetone	125	139		ug/L		111	56 - 142
Benzene	25.0	24.7		ug/L		99	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		101	80 - 122
Bromoform	25.0	24.3		ug/L		97	61 - 132
Bromomethane	25.0	26.8		ug/L		107	55 - 144
Carbon disulfide	25.0	24.6		ug/L		98	59 - 134
Carbon tetrachloride	25.0	23.2		ug/L		93	72 - 134
Chlorobenzene	25.0	23.8		ug/L		95	80 - 120
Dibromochloromethane	25.0	25.9		ug/L		104	75 - 125
Chloroethane	25.0	27.7		ug/L		111	69 - 136
Chloroform	25.0	24.8		ug/L		99	73 - 127
1,4-Dioxane	500	433		ug/L		87	50 - 150
Chloromethane	25.0	28.2		ug/L		113	68 - 124
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124
Cyclohexane	25.0	23.4		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	26.4		ug/L		106	59 - 135
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-617790/6
Matrix: Water
Analysis Batch: 617790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	27.6		ug/L		110	77 - 122
Methyl acetate	50.0	54.6		ug/L		109	74 - 133
Methyl tert-butyl ether	25.0	26.0		ug/L		104	77 - 120
Methylcyclohexane	25.0	22.9		ug/L		92	68 - 134
Methylene Chloride	25.0	26.1		ug/L		104	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	73 - 127
Trichloroethene	25.0	24.0		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	26.5		ug/L		106	62 - 150
Vinyl chloride	25.0	27.0		ug/L		108	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-195725-2 MS
Matrix: Water
Analysis Batch: 617790

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	236		ug/L		94	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	288		ug/L		115	76 - 120
1,1,2-Trichloroethane	ND		250	260		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	49		250	269		ug/L		88	61 - 148
1,1-Dichloroethane	510		250	757		ug/L		98	77 - 120
1,1-Dichloroethene	ND		250	237		ug/L		95	66 - 127
1,2,4-Trichlorobenzene	ND		250	253		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	288		ug/L		115	56 - 134
1,2-Dibromoethane	ND		250	261		ug/L		104	77 - 120
1,2-Dichlorobenzene	ND		250	269		ug/L		108	80 - 124
1,2-Dichloroethane	ND		250	280		ug/L		112	75 - 120
1,2-Dichloropropane	ND		250	247		ug/L		99	76 - 120
1,3-Dichlorobenzene	ND		250	252		ug/L		101	77 - 120
1,4-Dichlorobenzene	ND		250	244		ug/L		97	78 - 124
2-Hexanone	ND		1250	1160		ug/L		93	65 - 127
2-Butanone (MEK)	ND		1250	1250		ug/L		100	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		1250	1400		ug/L		112	71 - 125
Acetone	ND		1250	1180		ug/L		94	56 - 142
Benzene	ND		250	250		ug/L		100	71 - 124
Bromodichloromethane	ND		250	265		ug/L		106	80 - 122
Bromoform	ND		250	245		ug/L		98	61 - 132
Bromomethane	ND		250	255		ug/L		102	55 - 144
Carbon disulfide	ND		250	241		ug/L		96	59 - 134
Carbon tetrachloride	ND		250	227		ug/L		91	72 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-195725-2 MS
Matrix: Water
Analysis Batch: 617790

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	ND		250	240		ug/L		96	80 - 120
Dibromochloromethane	ND		250	272		ug/L		109	75 - 125
Chloroethane	13		250	269		ug/L		102	69 - 136
Chloroform	ND		250	263		ug/L		105	73 - 127
1,4-Dioxane	ND	F2	5000	3320		ug/L		66	50 - 150
Chloromethane	ND		250	258		ug/L		103	68 - 124
cis-1,2-Dichloroethene	37		250	297		ug/L		104	74 - 124
cis-1,3-Dichloropropene	ND		250	233		ug/L		93	74 - 124
Cyclohexane	ND		250	214		ug/L		86	59 - 135
Dichlorodifluoromethane	ND	F1	250	374	F1	ug/L		150	59 - 135
Ethylbenzene	ND		250	232		ug/L		93	77 - 123
Isopropylbenzene	ND		250	267		ug/L		107	77 - 122
Methyl acetate	ND		500	574		ug/L		115	74 - 133
Methyl tert-butyl ether	ND		250	267		ug/L		107	77 - 120
Methylcyclohexane	ND		250	208		ug/L		83	68 - 134
Methylene Chloride	ND		250	292		ug/L		117	75 - 124
Styrene	ND		250	246		ug/L		98	80 - 120
Tetrachloroethene	ND		250	215		ug/L		86	74 - 122
Toluene	ND		250	247		ug/L		99	80 - 122
trans-1,2-Dichloroethene	ND		250	254		ug/L		102	73 - 127
Trichloroethene	ND		250	235		ug/L		94	74 - 123
Trichlorofluoromethane	ND		250	235		ug/L		94	62 - 150
Vinyl chloride	28		250	262		ug/L		93	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

Lab Sample ID: 480-195725-2 MSD
Matrix: Water
Analysis Batch: 617790

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	230		ug/L		92	73 - 126	3	15
1,1,2,2-Tetrachloroethane	ND		250	278		ug/L		111	76 - 120	3	15
1,1,2-Trichloroethane	ND		250	263		ug/L		105	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	49		250	254		ug/L		82	61 - 148	5	20
1,1-Dichloroethane	510		250	728		ug/L		87	77 - 120	4	20
1,1-Dichloroethene	ND		250	221		ug/L		89	66 - 127	7	16
1,2,4-Trichlorobenzene	ND		250	254		ug/L		102	79 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND		250	285		ug/L		114	56 - 134	1	15
1,2-Dibromoethane	ND		250	267		ug/L		107	77 - 120	2	15
1,2-Dichlorobenzene	ND		250	262		ug/L		105	80 - 124	3	20
1,2-Dichloroethane	ND		250	274		ug/L		110	75 - 120	2	20
1,2-Dichloropropane	ND		250	260		ug/L		104	76 - 120	5	20
1,3-Dichlorobenzene	ND		250	253		ug/L		101	77 - 120	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-195725-2 MSD
Matrix: Water
Analysis Batch: 617790

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		250	248		ug/L		99	78 - 124	2	20
2-Hexanone	ND		1250	1350		ug/L		108	65 - 127	15	15
2-Butanone (MEK)	ND		1250	1320		ug/L		106	57 - 140	5	20
4-Methyl-2-pentanone (MIBK)	ND		1250	1400		ug/L		112	71 - 125	0	35
Acetone	ND		1250	1210		ug/L		97	56 - 142	3	15
Benzene	ND		250	248		ug/L		99	71 - 124	1	13
Bromodichloromethane	ND		250	263		ug/L		105	80 - 122	0	15
Bromoform	ND		250	247		ug/L		99	61 - 132	1	15
Bromomethane	ND		250	238		ug/L		95	55 - 144	7	15
Carbon disulfide	ND		250	228		ug/L		91	59 - 134	6	15
Carbon tetrachloride	ND		250	220		ug/L		88	72 - 134	3	15
Chlorobenzene	ND		250	242		ug/L		97	80 - 120	1	25
Dibromochloromethane	ND		250	266		ug/L		106	75 - 125	2	15
Chloroethane	13		250	254		ug/L		96	69 - 136	6	15
Chloroform	ND		250	252		ug/L		101	73 - 127	4	20
1,4-Dioxane	ND	F2	5000	4740	F2	ug/L		95	50 - 150	35	20
Chloromethane	ND		250	248		ug/L		99	68 - 124	4	15
cis-1,2-Dichloroethene	37		250	282		ug/L		98	74 - 124	5	15
cis-1,3-Dichloropropene	ND		250	251		ug/L		100	74 - 124	8	15
Cyclohexane	ND		250	210		ug/L		84	59 - 135	2	20
Dichlorodifluoromethane	ND	F1	250	354	F1	ug/L		142	59 - 135	5	20
Ethylbenzene	ND		250	233		ug/L		93	77 - 123	1	15
Isopropylbenzene	ND		250	253		ug/L		101	77 - 122	6	20
Methyl acetate	ND		500	532		ug/L		106	74 - 133	7	20
Methyl tert-butyl ether	ND		250	258		ug/L		103	77 - 120	3	37
Methylcyclohexane	ND		250	204		ug/L		82	68 - 134	2	20
Methylene Chloride	ND		250	274		ug/L		110	75 - 124	6	15
Styrene	ND		250	256		ug/L		102	80 - 120	4	20
Tetrachloroethene	ND		250	212		ug/L		85	74 - 122	1	20
Toluene	ND		250	243		ug/L		97	80 - 122	2	15
trans-1,2-Dichloroethene	ND		250	239		ug/L		96	73 - 127	6	20
Trichloroethene	ND		250	237		ug/L		95	74 - 123	1	16
Trichlorofluoromethane	ND		250	221		ug/L		88	62 - 150	6	20
Vinyl chloride	28		250	252		ug/L		90	65 - 133	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: MB 480-617910/8
Matrix: Water
Analysis Batch: 617910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/16/22 01:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/16/22 01:08	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-617910/8
Matrix: Water
Analysis Batch: 617910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/16/22 01:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/16/22 01:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/16/22 01:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/16/22 01:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/16/22 01:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/16/22 01:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/16/22 01:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/16/22 01:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/16/22 01:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/16/22 01:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/16/22 01:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/16/22 01:08	1
2-Hexanone	ND		5.0	1.2	ug/L			03/16/22 01:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/16/22 01:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/16/22 01:08	1
Acetone	ND		10	3.0	ug/L			03/16/22 01:08	1
Benzene	ND		1.0	0.41	ug/L			03/16/22 01:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/16/22 01:08	1
Bromoform	ND		1.0	0.26	ug/L			03/16/22 01:08	1
Bromomethane	ND		1.0	0.69	ug/L			03/16/22 01:08	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/16/22 01:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/16/22 01:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/16/22 01:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/16/22 01:08	1
Chloroethane	ND		1.0	0.32	ug/L			03/16/22 01:08	1
Chloroform	ND		1.0	0.34	ug/L			03/16/22 01:08	1
1,4-Dioxane	ND		40	9.3	ug/L			03/16/22 01:08	1
Chloromethane	ND		1.0	0.35	ug/L			03/16/22 01:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/16/22 01:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/16/22 01:08	1
Cyclohexane	ND		1.0	0.18	ug/L			03/16/22 01:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/16/22 01:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/16/22 01:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/16/22 01:08	1
Methyl acetate	ND		2.5	1.3	ug/L			03/16/22 01:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/16/22 01:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/16/22 01:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/16/22 01:08	1
Styrene	ND		1.0	0.73	ug/L			03/16/22 01:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/16/22 01:08	1
Toluene	ND		1.0	0.51	ug/L			03/16/22 01:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/16/22 01:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/16/22 01:08	1
Trichloroethene	ND		1.0	0.46	ug/L			03/16/22 01:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/16/22 01:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/16/22 01:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/16/22 01:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-617910/8
Matrix: Water
Analysis Batch: 617910

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*03/16/22 01:08*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/16/22 01:08*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*03/16/22 01:08*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/16/22 01:08*	*1*

Lab Sample ID: LCS 480-617910/6
Matrix: Water
Analysis Batch: 617910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.6		ug/L		110	76 - 120
1,1,2-Trichloroethane	25.0	25.1		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.4		ug/L		102	61 - 148
1,1-Dichloroethane	25.0	26.9		ug/L		108	77 - 120
1,1-Dichloroethene	25.0	25.8		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	28.1		ug/L		112	56 - 134
1,2-Dibromoethane	25.0	25.3		ug/L		101	77 - 120
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	26.3		ug/L		105	75 - 120
1,2-Dichloropropane	25.0	24.8		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 120
2-Hexanone	125	115		ug/L		92	65 - 127
2-Butanone (MEK)	125	129		ug/L		103	57 - 140
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	137		ug/L		110	56 - 142
Benzene	25.0	25.4		ug/L		101	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		103	80 - 122
Bromoform	25.0	24.1		ug/L		96	61 - 132
Bromomethane	25.0	26.6		ug/L		107	55 - 144
Carbon disulfide	25.0	26.3		ug/L		105	59 - 134
Carbon tetrachloride	25.0	25.3		ug/L		101	72 - 134
Chlorobenzene	25.0	24.3		ug/L		97	80 - 120
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125
Chloroethane	25.0	27.5		ug/L		110	69 - 136
Chloroform	25.0	25.8		ug/L		103	73 - 127
1,4-Dioxane	500	441		ug/L		88	50 - 150
Chloromethane	25.0	27.0		ug/L		108	68 - 124
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Cyclohexane	25.0	25.7		ug/L		103	59 - 135
Dichlorodifluoromethane	25.0	25.3		ug/L		101	59 - 135
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123
Isopropylbenzene	25.0	29.7		ug/L		119	77 - 122
Methyl acetate	50.0	54.8		ug/L		110	74 - 133
Methyl tert-butyl ether	25.0	26.4		ug/L		106	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-617910/6
Matrix: Water
Analysis Batch: 617910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylcyclohexane			25.0	24.6		ug/L		99	68 - 134		
Methylene Chloride			25.0	27.1		ug/L		109	75 - 124		
Styrene			25.0	24.8		ug/L		99	80 - 120		
Tetrachloroethene			25.0	23.8		ug/L		95	74 - 122		
Toluene			25.0	25.7		ug/L		103	80 - 122		
trans-1,2-Dichloroethene			25.0	26.5		ug/L		106	73 - 127		
Trichloroethene			25.0	25.0		ug/L		100	74 - 123		
Trichlorofluoromethane			25.0	26.1		ug/L		104	62 - 150		
Vinyl chloride			25.0	26.2		ug/L		105	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: 480-195725-3 MS
Matrix: Water
Analysis Batch: 617910

Client Sample ID: BLIND DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND		500	512		ug/L		102	73 - 126		
1,1,2,2-Tetrachloroethane	ND		500	549		ug/L		110	76 - 120		
1,1,2-Trichloroethane	ND		500	522		ug/L		104	76 - 122		
1,1,2-Trichloro-1,2,2-trifluoroethane	540		500	893		ug/L		70	61 - 148		
1,1-Dichloroethane	920	F1	500	1200	F1	ug/L		56	77 - 120		
1,1-Dichloroethene	ND		500	517		ug/L		103	66 - 127		
1,2,4-Trichlorobenzene	ND		500	475		ug/L		95	79 - 122		
1,2-Dibromo-3-Chloropropane	ND		500	559		ug/L		112	56 - 134		
1,2-Dibromoethane	ND		500	530		ug/L		106	77 - 120		
1,2-Dichlorobenzene	ND		500	505		ug/L		101	80 - 124		
1,2-Dichloroethane	ND		500	537		ug/L		107	75 - 120		
1,2-Dichloropropane	ND		500	513		ug/L		103	76 - 120		
1,3-Dichlorobenzene	ND		500	502		ug/L		100	77 - 120		
1,4-Dichlorobenzene	ND		500	494		ug/L		99	78 - 124		
2-Hexanone	ND	F2	2500	2760		ug/L		110	65 - 127		
2-Butanone (MEK)	ND		2500	2670		ug/L		107	57 - 140		
4-Methyl-2-pentanone (MIBK)	ND		2500	2810		ug/L		112	71 - 125		
Acetone	ND		2500	2460		ug/L		98	56 - 142		
Benzene	ND		500	510		ug/L		102	71 - 124		
Bromodichloromethane	ND		500	530		ug/L		106	80 - 122		
Bromoform	ND		500	507		ug/L		101	61 - 132		
Bromomethane	ND		500	520		ug/L		104	55 - 144		
Carbon disulfide	ND		500	514		ug/L		103	59 - 134		
Carbon tetrachloride	ND		500	512		ug/L		102	72 - 134		
Chlorobenzene	ND		500	497		ug/L		99	80 - 120		
Dibromochloromethane	ND		500	538		ug/L		108	75 - 125		
Chloroethane	7.4	J	500	543		ug/L		107	69 - 136		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-195725-3 MS
Matrix: Water
Analysis Batch: 617910

Client Sample ID: BLIND DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	ND		500	504		ug/L		101	73 - 127
1,4-Dioxane	ND		10000	7150		ug/L		71	50 - 150
Chloromethane	ND		500	544		ug/L		109	68 - 124
cis-1,2-Dichloroethene	76		500	549		ug/L		95	74 - 124
cis-1,3-Dichloropropene	ND		500	499		ug/L		100	74 - 124
Cyclohexane	ND		500	508		ug/L		102	59 - 135
Dichlorodifluoromethane	ND	F1	500	700	F1	ug/L		140	59 - 135
Ethylbenzene	ND		500	500		ug/L		100	77 - 123
Isopropylbenzene	ND	F1	500	529		ug/L		106	77 - 122
Methyl acetate	ND		1000	1130		ug/L		113	74 - 133
Methyl tert-butyl ether	ND		500	480		ug/L		96	77 - 120
Methylcyclohexane	ND		500	477		ug/L		95	68 - 134
Methylene Chloride	ND		500	529		ug/L		106	75 - 124
Styrene	ND		500	525		ug/L		105	80 - 120
Tetrachloroethene	ND		500	477		ug/L		95	74 - 122
Toluene	ND		500	510		ug/L		102	80 - 122
trans-1,2-Dichloroethene	ND		500	508		ug/L		102	73 - 127
Trichloroethene	ND		500	500		ug/L		100	74 - 123
Trichlorofluoromethane	ND		500	565		ug/L		113	62 - 150
Vinyl chloride	64		500	579		ug/L		103	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-195725-3 MSD
Matrix: Water
Analysis Batch: 617910

Client Sample ID: BLIND DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		500	570		ug/L		114	73 - 126	11	15
1,1,2,2-Tetrachloroethane	ND		500	567		ug/L		113	76 - 120	3	15
1,1,2-Trichloroethane	ND		500	513		ug/L		103	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	540		500	990		ug/L		90	61 - 148	10	20
1,1-Dichloroethane	920	F1	500	1340		ug/L		84	77 - 120	11	20
1,1-Dichloroethene	ND		500	579		ug/L		116	66 - 127	11	16
1,2,4-Trichlorobenzene	ND		500	530		ug/L		106	79 - 122	11	20
1,2-Dibromo-3-Chloropropane	ND		500	566		ug/L		113	56 - 134	1	15
1,2-Dibromoethane	ND		500	508		ug/L		102	77 - 120	4	15
1,2-Dichlorobenzene	ND		500	552		ug/L		110	80 - 124	9	20
1,2-Dichloroethane	ND		500	543		ug/L		109	75 - 120	1	20
1,2-Dichloropropane	ND		500	506		ug/L		101	76 - 120	1	20
1,3-Dichlorobenzene	ND		500	519		ug/L		104	77 - 120	3	20
1,4-Dichlorobenzene	ND		500	500		ug/L		100	78 - 124	1	20
2-Hexanone	ND	F2	2500	2200	F2	ug/L		88	65 - 127	23	15
2-Butanone (MEK)	ND		2500	2400		ug/L		96	57 - 140	11	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-195725-3 MSD
Matrix: Water
Analysis Batch: 617910

Client Sample ID: BLIND DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		2500	2710		ug/L		109	71 - 125	4	35
Acetone	ND		2500	2600		ug/L		104	56 - 142	6	15
Benzene	ND		500	538		ug/L		108	71 - 124	5	13
Bromodichloromethane	ND		500	527		ug/L		105	80 - 122	1	15
Bromoform	ND		500	497		ug/L		99	61 - 132	2	15
Bromomethane	ND		500	584		ug/L		117	55 - 144	12	15
Carbon disulfide	ND		500	585		ug/L		117	59 - 134	13	15
Carbon tetrachloride	ND		500	563		ug/L		113	72 - 134	10	15
Chlorobenzene	ND		500	507		ug/L		101	80 - 120	2	25
Dibromochloromethane	ND		500	545		ug/L		109	75 - 125	1	15
Chloroethane	7.4	J	500	620		ug/L		123	69 - 136	13	15
Chloroform	ND		500	561		ug/L		112	73 - 127	11	20
1,4-Dioxane	ND		10000	8090		ug/L		81	50 - 150	12	20
Chloromethane	ND		500	609		ug/L		122	68 - 124	11	15
cis-1,2-Dichloroethene	76		500	620		ug/L		109	74 - 124	12	15
cis-1,3-Dichloropropene	ND		500	461		ug/L		92	74 - 124	8	15
Cyclohexane	ND		500	570		ug/L		114	59 - 135	12	20
Dichlorodifluoromethane	ND	F1	500	802	F1	ug/L		160	59 - 135	14	20
Ethylbenzene	ND		500	524		ug/L		105	77 - 123	5	15
Isopropylbenzene	ND	F1	500	625	F1	ug/L		125	77 - 122	17	20
Methyl acetate	ND		1000	1110		ug/L		111	74 - 133	2	20
Methyl tert-butyl ether	ND		500	543		ug/L		109	77 - 120	12	37
Methylcyclohexane	ND		500	526		ug/L		105	68 - 134	10	20
Methylene Chloride	ND		500	596		ug/L		119	75 - 124	12	15
Styrene	ND		500	505		ug/L		101	80 - 120	4	20
Tetrachloroethene	ND		500	509		ug/L		102	74 - 122	7	20
Toluene	ND		500	542		ug/L		108	80 - 122	6	15
trans-1,2-Dichloroethene	ND		500	584		ug/L		117	73 - 127	14	20
Trichloroethene	ND		500	522		ug/L		104	74 - 123	4	16
Trichlorofluoromethane	ND		500	631		ug/L		126	62 - 150	11	20
Vinyl chloride	64		500	673		ug/L		122	65 - 133	15	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-617715/1-A
Matrix: Water
Analysis Batch: 617896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 617715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 14:23	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/14/22 09:36*	*03/15/22 14:23*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: LCS 480-617715/2-A
Matrix: Water
Analysis Batch: 617896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 617715

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	2.16		ug/L		108	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*35*		*15 - 110*

Lab Sample ID: 480-195725-2 MS
Matrix: Water
Analysis Batch: 617896

Client Sample ID: MW-8R
Prep Type: Total/NA
Prep Batch: 617715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	13		2.00	14.9	4	ug/L		72	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*34*		*15 - 110*

Lab Sample ID: 480-195725-2 MSD
Matrix: Water
Analysis Batch: 617896

Client Sample ID: MW-8R
Prep Type: Total/NA
Prep Batch: 617715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	13		2.00	15.2	4	ug/L		87	40 - 140	2	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*31*		*15 - 110*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-617747/3
Matrix: Water
Analysis Batch: 617747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/14/22 12:27	1
Ethane	ND		7.5	1.5	ug/L			03/14/22 12:27	1
Ethene	ND		7.0	1.5	ug/L			03/14/22 12:27	1

Lab Sample ID: LCS 480-617747/4
Matrix: Water
Analysis Batch: 617747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane			19.4	16.9		ug/L		87	85 - 120		
Ethane			36.3	33.2		ug/L		91	79 - 120		
Ethene			34.0	32.9		ug/L		97	85 - 120		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 480-195725-2 MS
Matrix: Water
Analysis Batch: 617747

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	3500		853	5890	4	ug/L		282	38 - 150
Ethane	ND		1600	1590		ug/L		100	76 - 125
Ethene	ND		1500	1460		ug/L		97	75 - 129

Lab Sample ID: 480-195725-2 MSD
Matrix: Water
Analysis Batch: 617747

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	3500		853	5990	4	ug/L		295	38 - 150	2	50
Ethane	ND		1600	1690		ug/L		106	76 - 125	6	50
Ethene	ND		1500	1570		ug/L		105	75 - 129	7	50

Lab Sample ID: MB 480-617931/3
Matrix: Water
Analysis Batch: 617931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/15/22 14:13	1
Ethane	ND		7.5	1.5	ug/L			03/15/22 14:13	1
Ethene	ND		7.0	1.5	ug/L			03/15/22 14:13	1

Lab Sample ID: LCS 480-617931/4
Matrix: Water
Analysis Batch: 617931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.4	17.8		ug/L		92	85 - 120
Ethane	36.3	35.1		ug/L		97	79 - 120
Ethene	34.0	34.6		ug/L		102	85 - 120

Lab Sample ID: LCSD 480-617931/5
Matrix: Water
Analysis Batch: 617931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	19.4	17.5		ug/L		90	85 - 120	1	50
Ethane	36.3	34.6		ug/L		95	79 - 120	2	50
Ethene	34.0	34.6		ug/L		102	85 - 120	0	50

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-618366/28
Matrix: Water
Analysis Batch: 618366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/19/22 02:25	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-618366/4
Matrix: Water
Analysis Batch: 618366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/18/22 18:34	1

Lab Sample ID: LCS 480-618366/29
Matrix: Water
Analysis Batch: 618366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	49.55		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-618366/5
Matrix: Water
Analysis Batch: 618366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	49.73		mg/L		99	90 - 110		

Lab Sample ID: 480-195725-2 MS
Matrix: Water
Analysis Batch: 618366

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1360		1000	2412		mg/L		106	81 - 120		

Lab Sample ID: 480-195725-2 MSD
Matrix: Water
Analysis Batch: 618366

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1360		1000	2297		mg/L		94	81 - 120	5	15

Lab Sample ID: 480-195725-6 MS
Matrix: Water
Analysis Batch: 618366

Client Sample ID: EQUIP BLANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	ND		50.0	50.37		mg/L		101	81 - 120		

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-618795/29
Matrix: Water
Analysis Batch: 618795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			03/22/22 18:00	1

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: MB 480-618795/3
Matrix: Water
Analysis Batch: 618795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			03/22/22 18:00	1

Lab Sample ID: LCS 480-618795/30
Matrix: Water
Analysis Batch: 618795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	2.01		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-618795/4
Matrix: Water
Analysis Batch: 618795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	1.98		mg/L		99	90 - 110		

Lab Sample ID: 480-195725-2 MS
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron	ND	HF	1.00	0.971	HF	mg/L		97	70 - 130		

Lab Sample ID: 480-195725-2 MSD
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	ND	HF	1.00	0.996	HF	mg/L		100	70 - 130	2	20

Lab Sample ID: 480-195725-6 MS
Matrix: Water
Analysis Batch: 618795

Client Sample ID: EQUIP BLANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron	ND	HF	1.00	1.03		mg/L		103	70 - 130		

Lab Sample ID: 480-195725-1 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195725-2 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: 480-195725-3 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: BLIND DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195725-4 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195725-5 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-22R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195725-6 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: EQUIP BLANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195725-7 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-23D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-195725-8 DU
Matrix: Water
Analysis Batch: 618795

Client Sample ID: MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 617790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-1	MW-7	Total/NA	Water	8260C	
480-195725-2	MW-8R	Total/NA	Water	8260C	
480-195725-3	BLIND DUP	Total/NA	Water	8260C	
480-195725-4	MW-21	Total/NA	Water	8260C	
480-195725-5	MW-22R	Total/NA	Water	8260C	
480-195725-6	EQUIP BLANK	Total/NA	Water	8260C	
480-195725-7	MW-23D	Total/NA	Water	8260C	
480-195725-8	MW-24	Total/NA	Water	8260C	
MB 480-617790/8	Method Blank	Total/NA	Water	8260C	
LCS 480-617790/6	Lab Control Sample	Total/NA	Water	8260C	
480-195725-2 MS	MW-8R	Total/NA	Water	8260C	
480-195725-2 MSD	MW-8R	Total/NA	Water	8260C	

Analysis Batch: 617910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-3 - DL	BLIND DUP	Total/NA	Water	8260C	
MB 480-617910/8	Method Blank	Total/NA	Water	8260C	
LCS 480-617910/6	Lab Control Sample	Total/NA	Water	8260C	
480-195725-3 MS	BLIND DUP	Total/NA	Water	8260C	
480-195725-3 MSD	BLIND DUP	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 617715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-1	MW-7	Total/NA	Water	3510C	
480-195725-2	MW-8R	Total/NA	Water	3510C	
480-195725-3	BLIND DUP	Total/NA	Water	3510C	
480-195725-4	MW-21	Total/NA	Water	3510C	
480-195725-5	MW-22R	Total/NA	Water	3510C	
480-195725-6	EQUIP BLANK	Total/NA	Water	3510C	
480-195725-7	MW-23D	Total/NA	Water	3510C	
480-195725-8	MW-24	Total/NA	Water	3510C	
MB 480-617715/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-617715/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-195725-2 MS	MW-8R	Total/NA	Water	3510C	
480-195725-2 MSD	MW-8R	Total/NA	Water	3510C	

Analysis Batch: 617896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-1	MW-7	Total/NA	Water	8270D SIM ID	617715
480-195725-2	MW-8R	Total/NA	Water	8270D SIM ID	617715
480-195725-3	BLIND DUP	Total/NA	Water	8270D SIM ID	617715
480-195725-4	MW-21	Total/NA	Water	8270D SIM ID	617715
480-195725-5	MW-22R	Total/NA	Water	8270D SIM ID	617715
480-195725-6	EQUIP BLANK	Total/NA	Water	8270D SIM ID	617715
480-195725-7	MW-23D	Total/NA	Water	8270D SIM ID	617715
480-195725-8	MW-24	Total/NA	Water	8270D SIM ID	617715
MB 480-617715/1-A	Method Blank	Total/NA	Water	8270D SIM ID	617715
LCS 480-617715/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	617715
480-195725-2 MS	MW-8R	Total/NA	Water	8270D SIM ID	617715

GC/MS Semi VOA (Continued)

Analysis Batch: 617896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-2 MSD	MW-8R	Total/NA	Water	8270D SIM ID	617715

GC VOA

Analysis Batch: 617747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-1	MW-7	Total/NA	Water	RSK-175	
480-195725-2	MW-8R	Total/NA	Water	RSK-175	
480-195725-3	BLIND DUP	Total/NA	Water	RSK-175	
480-195725-4	MW-21	Total/NA	Water	RSK-175	
480-195725-5	MW-22R	Total/NA	Water	RSK-175	
480-195725-6	EQUIP BLANK	Total/NA	Water	RSK-175	
480-195725-7	MW-23D	Total/NA	Water	RSK-175	
480-195725-8	MW-24	Total/NA	Water	RSK-175	
MB 480-617747/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-617747/4	Lab Control Sample	Total/NA	Water	RSK-175	
480-195725-2 MS	MW-8R	Total/NA	Water	RSK-175	
480-195725-2 MSD	MW-8R	Total/NA	Water	RSK-175	

Analysis Batch: 617931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-1 - DL	MW-7	Total/NA	Water	RSK-175	
480-195725-3 - DL	BLIND DUP	Total/NA	Water	RSK-175	
480-195725-7 - DL	MW-23D	Total/NA	Water	RSK-175	
480-195725-8 - DL	MW-24	Total/NA	Water	RSK-175	
MB 480-617931/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-617931/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-617931/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 618366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-1	MW-7	Total/NA	Water	300.0	
480-195725-2	MW-8R	Total/NA	Water	300.0	
480-195725-3	BLIND DUP	Total/NA	Water	300.0	
480-195725-4	MW-21	Total/NA	Water	300.0	
480-195725-5	MW-22R	Total/NA	Water	300.0	
480-195725-6	EQUIP BLANK	Total/NA	Water	300.0	
480-195725-7	MW-23D	Total/NA	Water	300.0	
480-195725-8	MW-24	Total/NA	Water	300.0	
MB 480-618366/28	Method Blank	Total/NA	Water	300.0	
MB 480-618366/4	Method Blank	Total/NA	Water	300.0	
LCS 480-618366/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-618366/5	Lab Control Sample	Total/NA	Water	300.0	
480-195725-2 MS	MW-8R	Total/NA	Water	300.0	
480-195725-2 MSD	MW-8R	Total/NA	Water	300.0	
480-195725-6 MS	EQUIP BLANK	Total/NA	Water	300.0	

Analysis Batch: 618795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-1	MW-7	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 618795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195725-2	MW-8R	Total/NA	Water	SM 3500 FE D	
480-195725-3	BLIND DUP	Total/NA	Water	SM 3500 FE D	
480-195725-4	MW-21	Total/NA	Water	SM 3500 FE D	
480-195725-5	MW-22R	Total/NA	Water	SM 3500 FE D	
480-195725-6	EQUIP BLANK	Total/NA	Water	SM 3500 FE D	
480-195725-7	MW-23D	Total/NA	Water	SM 3500 FE D	
480-195725-8	MW-24	Total/NA	Water	SM 3500 FE D	
MB 480-618795/29	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-618795/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-618795/30	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-618795/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-195725-2 MS	MW-8R	Total/NA	Water	SM 3500 FE D	
480-195725-2 MSD	MW-8R	Total/NA	Water	SM 3500 FE D	
480-195725-6 MS	EQUIP BLANK	Total/NA	Water	SM 3500 FE D	
480-195725-1 DU	MW-7	Total/NA	Water	SM 3500 FE D	
480-195725-2 DU	MW-8R	Total/NA	Water	SM 3500 FE D	
480-195725-3 DU	BLIND DUP	Total/NA	Water	SM 3500 FE D	
480-195725-4 DU	MW-21	Total/NA	Water	SM 3500 FE D	
480-195725-5 DU	MW-22R	Total/NA	Water	SM 3500 FE D	
480-195725-6 DU	EQUIP BLANK	Total/NA	Water	SM 3500 FE D	
480-195725-7 DU	MW-23D	Total/NA	Water	SM 3500 FE D	
480-195725-8 DU	MW-24	Total/NA	Water	SM 3500 FE D	

Client Sample ID: MW-7

Lab Sample ID: 480-195725-1

Date Collected: 03/10/22 10:05

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	617790	03/15/22 00:17	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 19:10	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		11	617747	03/14/22 16:56	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	44	617931	03/15/22 18:39	DSC	TAL BUF
Total/NA	Analysis	300.0		20	618366	03/18/22 23:48	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-8R

Lab Sample ID: 480-195725-2

Date Collected: 03/10/22 09:05

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	617790	03/15/22 00:39	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 15:51	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		44	617747	03/14/22 14:25	DSC	TAL BUF
Total/NA	Analysis	300.0		20	618366	03/18/22 20:52	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: BLIND DUP

Lab Sample ID: 480-195725-3

Date Collected: 03/10/22 11:00

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	617790	03/15/22 01:01	AXK	TAL BUF
Total/NA	Analysis	8260C	DL	20	617910	03/16/22 05:34	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 19:32	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		11	617747	03/14/22 17:34	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	44	617931	03/15/22 18:58	DSC	TAL BUF
Total/NA	Analysis	300.0		20	618366	03/19/22 00:08	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-21

Lab Sample ID: 480-195725-4

Date Collected: 03/10/22 13:06

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	617790	03/15/22 01:23	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 19:53	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617747	03/14/22 17:53	DSC	TAL BUF

Client Sample ID: MW-21

Lab Sample ID: 480-195725-4

Date Collected: 03/10/22 13:06

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	618366	03/19/22 00:27	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-22R

Lab Sample ID: 480-195725-5

Date Collected: 03/10/22 12:12

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617790	03/15/22 01:45	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 20:15	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617747	03/14/22 18:12	DSC	TAL BUF
Total/NA	Analysis	300.0		2	618366	03/19/22 00:47	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: EQUIP BLANK

Lab Sample ID: 480-195725-6

Date Collected: 03/10/22 13:37

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617790	03/15/22 02:07	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 20:36	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617747	03/14/22 18:30	DSC	TAL BUF
Total/NA	Analysis	300.0		1	618366	03/19/22 01:06	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Client Sample ID: MW-23D

Lab Sample ID: 480-195725-7

Date Collected: 03/10/22 12:40

Matrix: Water

Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	617790	03/15/22 02:30	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 20:59	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		11	617747	03/14/22 18:49	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	617931	03/15/22 19:16	DSC	TAL BUF
Total/NA	Analysis	300.0		5	618366	03/19/22 03:04	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195725-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: MW-24
Lab Sample ID: 480-195725-8
Date Collected: 03/10/22 11:16
Matrix: Water
Date Received: 03/11/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	617790	03/15/22 02:52	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:36	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 21:21	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	617747	03/14/22 19:08	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	617931	03/15/22 19:35	DSC	TAL BUF
Total/NA	Analysis	300.0		10	618366	03/19/22 03:24	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	618795	03/22/22 18:00	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195725-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-195725-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-195725-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195725-1	MW-7	Water	03/10/22 10:05	03/11/22 10:30
480-195725-2	MW-8R	Water	03/10/22 09:05	03/11/22 10:30
480-195725-3	BLIND DUP	Water	03/10/22 11:00	03/11/22 10:30
480-195725-4	MW-21	Water	03/10/22 13:06	03/11/22 10:30
480-195725-5	MW-22R	Water	03/10/22 12:12	03/11/22 10:30
480-195725-6	EQUIP BLANK	Water	03/10/22 13:37	03/11/22 10:30
480-195725-7	MW-23D	Water	03/10/22 12:40	03/11/22 10:30
480-195725-8	MW-24	Water	03/10/22 11:16	03/11/22 10:30

Client Information

Sampler: RLD / TAB
Lab PM: Fischer, Brian J
Carrier Tracking No(s):
COC No: 480-169327-35579.1
Page: Page 1 of 1
Job #:

Client Contact: Mr. Rick Dubisz
Phone:
E-Mail: Brian.Fischer@Eurofinset.com
State of Origin:

Company: Benchmark Env. Eng. & Science, PLLC
P-Wells:

Address: 2558 Hamburg Turnpike Suite 300
Due Date Requested:

City: Lackawanna
TAT Requested (days):

State, Zip: NY, 14218
Compliance Project: Δ Yes Δ No

Phone: 716-856-0599(Tel)
PO #: B0400-022-001 001/001

Email: rdubisz@bm-tk.com
WO #:

Project Name: (Moog) Jamison Road Site- Elma, NY
Project #: 48016204

Site:
SSOW#:

Analysis Requested

#225

480-195725 Chain of Custody

Preservation Codes:
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	MS/MSD (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Cl only	RSK_175 - Methane, Ethane, Ethene	8260C - (MOD) TCL list OLM04.2	8270D_SIM_MS_ID - SIM List	6010D_FE_D - Ferrous Iron	Special Instructions/Note:
MW-7	3/10/22	1005	G	Water				✓	✓	✓	✓	✓	
MW-8R	3/10/22	0905		Water				✓	✓	✓	✓	✓	
MW-8R MS (BR)	3/10/22	0905		Water				✓	✓	✓	✓		
MW-8D MSD (BR)	3/10/22	0905		Water				✓	✓	✓	✓	✓	
MW-20 BLIND DUP	3/10/22	1100		Water				✓	✓	✓	✓	✓	
MW-20D				Water									
MW-21	3/10/22	1306		Water				✓	✓	✓	✓	✓	
MW-22R	3/10/22	1216		Water				✓	✓	✓	✓	✓	
MW-23 EQUIP BLANK	3/10/22	1335		Water				✓	✓	✓	✓	✓	
MW-23D	3/10/22	1240		Water				✓	✓	✓	✓	✓	
MW-24	3/10/22	1116	V	Water				✓	✓	✓		✓	

Possible Hazard Identification
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Custody Seals Intact: Custody Seal No.:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3-10-22 1530	BM/TK	E. Walker	3/11/22 1030	TAB

Cooler Temperature(s) °C and Other Remarks: #1 2.4, 2.8, 2.6

Ver: 06/08/2021

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3/23/2022

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-199093-1
Client Project/Site: (Moog) Jamison Road Site- Elma, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Michael Lesakowski

Authorized for release by:
6/29/2022 9:47:00 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@et.eurofinsus.com

LINKS

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Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-199093-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-199093-1

Comments
No additional comments.

Receipt
The samples were received on 6/15/2022 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6º C and 4.2º C.

GC/MS VOA
Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-23D (480-199093-13). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-199093-1), MW-8R (480-199093-2), BLIND DUP (480-199093-8) and MW-24 (480-199093-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-630923 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-9D (480-199093-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for samples MW-20D (480-199093-6), MW-22R (480-199093-7), MW-23 (480-199093-11) and MW-23D (480-199093-13) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-199093-2), MW-9R (480-199093-3), MW-9D (480-199093-4), MW-20 (480-199093-5), MW-20D (480-199093-6), MW-22R (480-199093-7), MW-24 (480-199093-9), MW-21 (480-199093-10), MW-23 (480-199093-11) and MW-23D (480-199093-13). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-199093-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-199093-1), MW-9D (480-199093-4), MW-23 (480-199093-11) and MW-23D (480-199093-13). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7 (480-199093-1), MW-8R (480-199093-2), MW-9D (480-199093-4), MW-20D (480-199093-6), MW-22R (480-199093-7) and MW-24 (480-199093-9). Elevated reporting limits (RLs) are provided.

Job ID: 480-199093-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-7 (480-199093-1), MW-8R (480-199093-2), MW-9R (480-199093-3), MW-9D (480-199093-4), MW-20 (480-199093-5), MW-20D (480-199093-6), MW-22R (480-199093-7), MW-24 (480-199093-9), MW-21 (480-199093-10), MW-23 (480-199093-11) and MW-23D (480-199093-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-199093-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: MW-7 — Lab Sample ID: 480-199093-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	460		20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	790		20	7.6	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	71		20	16	ug/L	20		8260C	Total/NA
Vinyl chloride	73		20	18	ug/L	20		8260C	Total/NA
1,4-Dioxane	17		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane - DL	3500		180	44	ug/L	44		RSK-175	Total/NA
Chloride	1970		25.0	14.1	mg/L	50		300.0	Total/NA

Client Sample ID: MW-8R — Lab Sample ID: 480-199093-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	45		10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	490		10	3.8	ug/L	10		8260C	Total/NA
Chloroethane	11		10	3.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	39		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	37		10	9.0	ug/L	10		8260C	Total/NA
1,4-Dioxane	13		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Ethane	11		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	17		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	2500		88	22	ug/L	22		RSK-175	Total/NA
Chloride	2370		10.0	5.6	mg/L	20		300.0	Total/NA

Client Sample ID: MW-9R — Lab Sample ID: 480-199093-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.1		1.0	0.82	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.7		1.0	0.36	ug/L	1		8260C	Total/NA
Chloride	144		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: MW-9D — Lab Sample ID: 480-199093-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.7		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	7.1		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	220	E	1.0	0.38	ug/L	1		8260C	Total/NA
Benzene	0.83	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	12		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.7		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	3.8		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.9		1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	12		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	5.1		4.0	3.3	ug/L	4		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	8.1		4.0	1.2	ug/L	4		8260C	Total/NA
1,1-Dichloroethane - DL	220		4.0	1.5	ug/L	4		8260C	Total/NA
Chloroethane - DL	13		4.0	1.3	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene - DL	7.7		4.0	3.2	ug/L	4		8260C	Total/NA
Cyclohexane - DL	4.4		4.0	0.72	ug/L	4		8260C	Total/NA
Methylcyclohexane - DL	2.1	J	4.0	0.64	ug/L	4		8260C	Total/NA
Vinyl chloride - DL	11		4.0	3.6	ug/L	4		8260C	Total/NA
1,4-Dioxane	11		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane - DL	9300		180	44	ug/L	44		RSK-175	Total/NA
Chloride	644		5.0	2.8	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-199093-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: MW-9D (Continued) — Lab Sample ID: 480-199093-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	0.39	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 480-199093-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	7.6		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	4.5		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	7.0		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	16		4.0	1.0	ug/L	1		RSK-175	Total/NA
Chloride	734		5.0	2.8	mg/L	10		300.0	Total/NA
Ferrous Iron	0.41	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-20D — Lab Sample ID: 480-199093-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.0		1.0	0.38	ug/L	1		8260C	Total/NA
Chloroethane	1.2		1.0	0.32	ug/L	1		8260C	Total/NA
Cyclohexane	0.40	J	1.0	0.18	ug/L	1		8260C	Total/NA
Vinyl chloride	56		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	51	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Ethene	12		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	2600		88	22	ug/L	22		RSK-175	Total/NA
Chloride	474		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: MW-22R — Lab Sample ID: 480-199093-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.48	J	1.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dioxane	27	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane - DL	340		44	11	ug/L	11		RSK-175	Total/NA
Chloride	501		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: BLIND DUP — Lab Sample ID: 480-199093-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	47		20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	520		20	7.6	ug/L	20		8260C	Total/NA
Chloroethane	12	J	20	6.4	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	41		20	16	ug/L	20		8260C	Total/NA
Vinyl chloride	41		20	18	ug/L	20		8260C	Total/NA
1,4-Dioxane	14		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: MW-24 — Lab Sample ID: 480-199093-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	630		10	3.8	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	20		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	51		10	9.0	ug/L	10		8260C	Total/NA
1,4-Dioxane	17		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Ethane	10		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	20		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	3200		88	22	ug/L	22		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-24 (Continued) — Lab Sample ID: 480-199093-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1600		10.0	5.6	mg/L	20		300.0	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 480-199093-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.4		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	84		4.0	1.0	ug/L	1		RSK-175	Total/NA
Chloride	1290		5.0	2.8	mg/L	10		300.0	Total/NA
Ferrous Iron	0.32	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 480-199093-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	7.9		1.0	0.38	ug/L	1		8260C	Total/NA
Chloroethane	12		1.0	0.32	ug/L	1		8260C	Total/NA
Vinyl chloride	3.4		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	33	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	2400		44	11	ug/L	11		RSK-175	Total/NA
Chloride	545		2.5	1.4	mg/L	5		300.0	Total/NA

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 480-199093-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	7.4		1.0	0.44	ug/L	1		8260C	Total/NA

Client Sample ID: MW-23D — Lab Sample ID: 480-199093-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	40	12	ug/L	4		8260C	Total/NA
Benzene	14		4.0	1.6	ug/L	4		8260C	Total/NA
Chloroethane	3.9	J	4.0	1.3	ug/L	4		8260C	Total/NA
Cyclohexane	28		4.0	0.72	ug/L	4		8260C	Total/NA
Ethylbenzene	11		4.0	3.0	ug/L	4		8260C	Total/NA
Methylcyclohexane	9.4		4.0	0.64	ug/L	4		8260C	Total/NA
Xylenes, Total	28		8.0	2.6	ug/L	4		8260C	Total/NA
1,4-Dioxane	24	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Methane	4700		88	22	ug/L	22		RSK-175	Total/NA
Ethane	190		170	33	ug/L	22		RSK-175	Total/NA
Chloride	386		2.5	1.4	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-7
Date Collected: 06/15/22 10:45
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			06/22/22 00:58	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			06/22/22 00:58	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			06/22/22 00:58	20
1,1,2-Trichloro-1,2,2-trifluoroethane	**460**		20	6.2	ug/L			06/22/22 00:58	20
1,1-Dichloroethane	**790**		20	7.6	ug/L			06/22/22 00:58	20
1,1-Dichloroethene	ND		20	5.8	ug/L			06/22/22 00:58	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			06/22/22 00:58	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			06/22/22 00:58	20
1,2-Dibromoethane	ND		20	15	ug/L			06/22/22 00:58	20
1,2-Dichlorobenzene	ND		20	16	ug/L			06/22/22 00:58	20
1,2-Dichloroethane	ND		20	4.2	ug/L			06/22/22 00:58	20
1,2-Dichloropropane	ND		20	14	ug/L			06/22/22 00:58	20
1,3-Dichlorobenzene	ND		20	16	ug/L			06/22/22 00:58	20
1,4-Dichlorobenzene	ND		20	17	ug/L			06/22/22 00:58	20
2-Hexanone	ND		100	25	ug/L			06/22/22 00:58	20
2-Butanone (MEK)	ND		200	26	ug/L			06/22/22 00:58	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			06/22/22 00:58	20
Acetone	ND		200	60	ug/L			06/22/22 00:58	20
Benzene	ND		20	8.2	ug/L			06/22/22 00:58	20
Bromodichloromethane	ND		20	7.8	ug/L			06/22/22 00:58	20
Bromoform	ND		20	5.2	ug/L			06/22/22 00:58	20
Bromomethane	ND		20	14	ug/L			06/22/22 00:58	20
Carbon disulfide	ND		20	3.8	ug/L			06/22/22 00:58	20
Carbon tetrachloride	ND		20	5.4	ug/L			06/22/22 00:58	20
Chlorobenzene	ND		20	15	ug/L			06/22/22 00:58	20
Dibromochloromethane	ND		20	6.4	ug/L			06/22/22 00:58	20
Chloroethane	ND		20	6.4	ug/L			06/22/22 00:58	20
Chloroform	ND		20	6.8	ug/L			06/22/22 00:58	20
1,4-Dioxane	ND		800	190	ug/L			06/22/22 00:58	20
Chloromethane	ND		20	7.0	ug/L			06/22/22 00:58	20
cis-1,2-Dichloroethene	**71**		20	16	ug/L			06/22/22 00:58	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			06/22/22 00:58	20
Cyclohexane	ND		20	3.6	ug/L			06/22/22 00:58	20
Dichlorodifluoromethane	ND		20	14	ug/L			06/22/22 00:58	20
Ethylbenzene	ND		20	15	ug/L			06/22/22 00:58	20
Isopropylbenzene	ND		20	16	ug/L			06/22/22 00:58	20
Methyl acetate	ND		50	26	ug/L			06/22/22 00:58	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			06/22/22 00:58	20
Methylcyclohexane	ND		20	3.2	ug/L			06/22/22 00:58	20
Methylene Chloride	ND		20	8.8	ug/L			06/22/22 00:58	20
Styrene	ND		20	15	ug/L			06/22/22 00:58	20
Tetrachloroethene	ND		20	7.2	ug/L			06/22/22 00:58	20
Toluene	ND		20	10	ug/L			06/22/22 00:58	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			06/22/22 00:58	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			06/22/22 00:58	20
Trichloroethene	ND		20	9.2	ug/L			06/22/22 00:58	20
Trichlorofluoromethane	ND		20	18	ug/L			06/22/22 00:58	20
Vinyl chloride	**73**		20	18	ug/L			06/22/22 00:58	20
Xylenes, Total	ND		40	13	ug/L			06/22/22 00:58	20

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-7
Date Collected: 06/15/22 10:45
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/22/22 00:58*	*20*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/22/22 00:58*	*20*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*06/22/22 00:58*	*20*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/22/22 00:58*	*20*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**17**		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 15:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*06/17/22 08:32*	*06/22/22 15:52*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		83	17	ug/L			06/20/22 22:09	11
Ethene	ND		77	17	ug/L			06/20/22 22:09	11

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3500**		180	44	ug/L			06/21/22 16:08	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1970**		25.0	14.1	mg/L			06/24/22 01:58	50
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-8R
Date Collected: 06/15/22 10:00
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/22/22 01:21	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/22/22 01:21	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/22/22 01:21	10
1,1,2-Trichloro-1,2,2-trifluoroethane	**45**		10	3.1	ug/L			06/22/22 01:21	10
1,1-Dichloroethane	**490**		10	3.8	ug/L			06/22/22 01:21	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/22/22 01:21	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/22/22 01:21	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/22/22 01:21	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/22/22 01:21	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			06/22/22 01:21	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/22/22 01:21	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/22/22 01:21	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/22/22 01:21	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/22/22 01:21	10
2-Hexanone	ND		50	12	ug/L			06/22/22 01:21	10
2-Butanone (MEK)	ND		100	13	ug/L			06/22/22 01:21	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/22/22 01:21	10
Acetone	ND		100	30	ug/L			06/22/22 01:21	10
Benzene	ND		10	4.1	ug/L			06/22/22 01:21	10
Bromodichloromethane	ND		10	3.9	ug/L			06/22/22 01:21	10
Bromoform	ND		10	2.6	ug/L			06/22/22 01:21	10
Bromomethane	ND		10	6.9	ug/L			06/22/22 01:21	10
Carbon disulfide	ND		10	1.9	ug/L			06/22/22 01:21	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/22/22 01:21	10
Chlorobenzene	ND		10	7.5	ug/L			06/22/22 01:21	10
Dibromochloromethane	ND		10	3.2	ug/L			06/22/22 01:21	10
Chloroethane	**11**		10	3.2	ug/L			06/22/22 01:21	10
Chloroform	ND		10	3.4	ug/L			06/22/22 01:21	10
1,4-Dioxane	ND		400	93	ug/L			06/22/22 01:21	10
Chloromethane	ND		10	3.5	ug/L			06/22/22 01:21	10
cis-1,2-Dichloroethene	**39**		10	8.1	ug/L			06/22/22 01:21	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/22/22 01:21	10
Cyclohexane	ND		10	1.8	ug/L			06/22/22 01:21	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/22/22 01:21	10
Ethylbenzene	ND		10	7.4	ug/L			06/22/22 01:21	10
Isopropylbenzene	ND		10	7.9	ug/L			06/22/22 01:21	10
Methyl acetate	ND		25	13	ug/L			06/22/22 01:21	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/22/22 01:21	10
Methylcyclohexane	ND		10	1.6	ug/L			06/22/22 01:21	10
Methylene Chloride	ND		10	4.4	ug/L			06/22/22 01:21	10
Styrene	ND		10	7.3	ug/L			06/22/22 01:21	10
Tetrachloroethene	ND		10	3.6	ug/L			06/22/22 01:21	10
Toluene	ND		10	5.1	ug/L			06/22/22 01:21	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/22/22 01:21	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/22/22 01:21	10
Trichloroethene	ND		10	4.6	ug/L			06/22/22 01:21	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/22/22 01:21	10
Vinyl chloride	**37**		10	9.0	ug/L			06/22/22 01:21	10
Xylenes, Total	ND		20	6.6	ug/L			06/22/22 01:21	10

Client Sample ID: MW-8R
Date Collected: 06/15/22 10:00
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/22/22 01:21*	*10*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/22/22 01:21*	*10*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/22/22 01:21*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/22/22 01:21*	*10*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**13**		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 16:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*15 - 110*	*06/17/22 08:32*	*06/22/22 16:15*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**11**		7.5	1.5	ug/L			06/20/22 22:28	1
Ethene	**17**		7.0	1.5	ug/L			06/20/22 22:28	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2500**		88	22	ug/L			06/21/22 16:27	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2370**		10.0	5.6	mg/L			06/22/22 16:45	20
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-9R
Date Collected: 06/15/22 09:10
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.1**		1.0	0.82	ug/L			06/22/22 01:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 01:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 01:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 01:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/22/22 01:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 01:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 01:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 01:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 01:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 01:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 01:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 01:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 01:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 01:44	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 01:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 01:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 01:44	1
Acetone	ND		10	3.0	ug/L			06/22/22 01:44	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 01:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 01:44	1
Bromoform	ND	F2	1.0	0.26	ug/L			06/22/22 01:44	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 01:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 01:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 01:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 01:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 01:44	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/22 01:44	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 01:44	1
1,4-Dioxane	ND	F2	40	9.3	ug/L			06/22/22 01:44	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 01:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 01:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 01:44	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 01:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 01:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 01:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 01:44	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 01:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 01:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 01:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 01:44	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 01:44	1
Tetrachloroethene	**1.7**		1.0	0.36	ug/L			06/22/22 01:44	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 01:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 01:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 01:44	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 01:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 01:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/22/22 01:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 01:44	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-9R
Date Collected: 06/15/22 09:10
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/22/22 01:44*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/22/22 01:44*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*06/22/22 01:44*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/22/22 01:44*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 13:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/17/22 08:32*	*06/22/22 13:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			06/20/22 22:47	1
Ethane	ND		7.5	1.5	ug/L			06/20/22 22:47	1
Ethene	ND		7.0	1.5	ug/L			06/20/22 22:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		2.5	1.4	mg/L			06/22/22 17:00	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-9D
Date Collected: 06/15/22 11:45
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.7**		1.0	0.82	ug/L			06/22/22 02:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 02:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**7.1**		1.0	0.31	ug/L			06/22/22 02:08	1
1,1-Dichloroethane	**220**	**E**	1.0	0.38	ug/L			06/22/22 02:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 02:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 02:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 02:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 02:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 02:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 02:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 02:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 02:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 02:08	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 02:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 02:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 02:08	1
Acetone	ND		10	3.0	ug/L			06/22/22 02:08	1
Benzene	**0.83**	**J**	1.0	0.41	ug/L			06/22/22 02:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 02:08	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 02:08	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 02:08	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 02:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 02:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 02:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 02:08	1
Chloroethane	**12**		1.0	0.32	ug/L			06/22/22 02:08	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 02:08	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 02:08	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 02:08	1
cis-1,2-Dichloroethene	**6.7**		1.0	0.81	ug/L			06/22/22 02:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 02:08	1
Cyclohexane	**3.8**		1.0	0.18	ug/L			06/22/22 02:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 02:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 02:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 02:08	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 02:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 02:08	1
Methylcyclohexane	**1.9**		1.0	0.16	ug/L			06/22/22 02:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 02:08	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 02:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 02:08	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 02:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 02:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 02:08	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 02:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 02:08	1
Vinyl chloride	**12**		1.0	0.90	ug/L			06/22/22 02:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 02:08	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-9D
Date Collected: 06/15/22 11:45
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/22/22 02:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/22/22 02:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/22/22 02:08*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*06/22/22 02:08*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**5.1**		4.0	3.3	ug/L			06/22/22 13:49	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/22/22 13:49	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/22/22 13:49	4
1,1,2-Trichloro-1,2,2-trifluoroethane	**8.1**		4.0	1.2	ug/L			06/22/22 13:49	4
1,1-Dichloroethane	**220**		4.0	1.5	ug/L			06/22/22 13:49	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/22/22 13:49	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/22/22 13:49	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/22/22 13:49	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/22/22 13:49	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/22/22 13:49	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/22/22 13:49	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/22/22 13:49	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/22/22 13:49	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/22/22 13:49	4
2-Hexanone	ND		20	5.0	ug/L			06/22/22 13:49	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/22/22 13:49	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/22/22 13:49	4
Acetone	ND		40	12	ug/L			06/22/22 13:49	4
Benzene	ND		4.0	1.6	ug/L			06/22/22 13:49	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/22/22 13:49	4
Bromoform	ND		4.0	1.0	ug/L			06/22/22 13:49	4
Bromomethane	ND		4.0	2.8	ug/L			06/22/22 13:49	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/22/22 13:49	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/22/22 13:49	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/22/22 13:49	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/22/22 13:49	4
Chloroethane	**13**		4.0	1.3	ug/L			06/22/22 13:49	4
Chloroform	ND		4.0	1.4	ug/L			06/22/22 13:49	4
1,4-Dioxane	ND		160	37	ug/L			06/22/22 13:49	4
Chloromethane	ND		4.0	1.4	ug/L			06/22/22 13:49	4
cis-1,2-Dichloroethene	**7.7**		4.0	3.2	ug/L			06/22/22 13:49	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/22/22 13:49	4
Cyclohexane	**4.4**		4.0	0.72	ug/L			06/22/22 13:49	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/22/22 13:49	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/22/22 13:49	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/22/22 13:49	4
Methyl acetate	ND		10	5.2	ug/L			06/22/22 13:49	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/22/22 13:49	4
Methylcyclohexane	**2.1**	**J**	4.0	0.64	ug/L			06/22/22 13:49	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/22/22 13:49	4
Styrene	ND		4.0	2.9	ug/L			06/22/22 13:49	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/22/22 13:49	4

Client Sample ID: MW-9D
Date Collected: 06/15/22 11:45
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.0	2.0	ug/L			06/22/22 13:49	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/22/22 13:49	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/22/22 13:49	4
Trichloroethene	ND		4.0	1.8	ug/L			06/22/22 13:49	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/22/22 13:49	4
Vinyl chloride	**11**		4.0	3.6	ug/L			06/22/22 13:49	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/22/22 13:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/22/22 13:49*	*4*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/22/22 13:49*	*4*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*06/22/22 13:49*	*4*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/22/22 13:49*	*4*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**11**		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 16:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*06/17/22 08:32*	*06/22/22 16:37*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		83	17	ug/L			06/20/22 23:06	11
Ethene	ND		77	17	ug/L			06/20/22 23:06	11

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**9300**		180	44	ug/L			06/21/22 16:45	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**644**		5.0	2.8	mg/L			06/22/22 17:14	10
Ferrous Iron	**0.39**	**HF**	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-20
Date Collected: 06/15/22 14:15
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 02:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 02:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 02:31	1
1,1-Dichloroethane	**7.6**		1.0	0.38	ug/L			06/22/22 02:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 02:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 02:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 02:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 02:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 02:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 02:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 02:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 02:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 02:31	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 02:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 02:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 02:31	1
Acetone	ND		10	3.0	ug/L			06/22/22 02:31	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 02:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 02:31	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 02:31	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 02:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 02:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 02:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 02:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 02:31	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/22 02:31	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 02:31	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 02:31	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 02:31	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.81	ug/L			06/22/22 02:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 02:31	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 02:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 02:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 02:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 02:31	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 02:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 02:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 02:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 02:31	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 02:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 02:31	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 02:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 02:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 02:31	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 02:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 02:31	1
Vinyl chloride	**4.5**		1.0	0.90	ug/L			06/22/22 02:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 02:31	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-20
Date Collected: 06/15/22 14:15
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/22/22 02:31*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/22/22 02:31*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/22/22 02:31*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/22/22 02:31*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**7.0**		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 16:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/17/22 08:32*	*06/22/22 16:58*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**16**		4.0	1.0	ug/L			06/21/22 17:04	1
Ethane	ND		7.5	1.5	ug/L			06/21/22 17:04	1
Ethene	ND		7.0	1.5	ug/L			06/21/22 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**734**		5.0	2.8	mg/L			06/22/22 17:28	10
Ferrous Iron	**0.41**	**HF**	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-20D
Date Collected: 06/15/22 14:25
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 02:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 02:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 02:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 02:54	1
1,1-Dichloroethane	**3.0**		1.0	0.38	ug/L			06/22/22 02:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 02:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 02:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 02:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 02:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 02:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 02:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 02:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 02:54	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 02:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 02:54	1
Acetone	ND		10	3.0	ug/L			06/22/22 02:54	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 02:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 02:54	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 02:54	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 02:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 02:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 02:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 02:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 02:54	1
Chloroethane	**1.2**		1.0	0.32	ug/L			06/22/22 02:54	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 02:54	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 02:54	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 02:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 02:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 02:54	1
Cyclohexane	**0.40**	**J**	1.0	0.18	ug/L			06/22/22 02:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 02:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 02:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 02:54	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 02:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 02:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 02:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 02:54	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 02:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 02:54	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 02:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 02:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 02:54	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 02:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 02:54	1
Vinyl chloride	**56**		1.0	0.90	ug/L			06/22/22 02:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 02:54	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-20D
Date Collected: 06/15/22 14:25
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/22/22 02:54*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/22/22 02:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/22/22 02:54*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/22/22 02:54*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**51**	**E**	0.20	0.10	ug/L		06/17/22 08:32	06/22/22 17:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*06/17/22 08:32*	*06/22/22 17:20*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			06/20/22 23:43	1
Ethene	**12**		7.0	1.5	ug/L			06/20/22 23:43	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2600**		88	22	ug/L			06/21/22 17:23	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**474**		2.5	1.4	mg/L			06/22/22 17:42	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-22R
Date Collected: 06/15/22 09:10
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 03:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 03:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 03:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 03:18	1
1,1-Dichloroethane	**0.48**	**J**	1.0	0.38	ug/L			06/22/22 03:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 03:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 03:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 03:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 03:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 03:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 03:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 03:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 03:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 03:18	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 03:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 03:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 03:18	1
Acetone	ND		10	3.0	ug/L			06/22/22 03:18	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 03:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 03:18	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 03:18	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 03:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 03:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 03:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 03:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 03:18	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/22 03:18	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 03:18	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 03:18	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 03:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 03:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 03:18	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 03:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 03:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 03:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 03:18	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 03:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 03:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 03:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 03:18	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 03:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 03:18	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 03:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 03:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 03:18	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 03:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 03:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/22/22 03:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 03:18	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-22R
Date Collected: 06/15/22 09:10
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/22/22 03:18*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/22/22 03:18*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/22/22 03:18*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*06/22/22 03:18*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**27**	**E**	0.20	0.10	ug/L		06/17/22 08:32	06/22/22 17:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*06/17/22 08:32*	*06/22/22 17:42*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			06/21/22 00:02	1
Ethene	ND		7.0	1.5	ug/L			06/21/22 00:02	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**340**		44	11	ug/L			06/21/22 17:42	11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**501**		2.5	1.4	mg/L			06/22/22 18:53	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: BLIND DUP
Date Collected: 06/15/22 08:00
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			06/22/22 03:41	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			06/22/22 03:41	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			06/22/22 03:41	20
1,1,2-Trichloro-1,2,2-trifluoroethane	**47**		20	6.2	ug/L			06/22/22 03:41	20
1,1-Dichloroethane	**520**		20	7.6	ug/L			06/22/22 03:41	20
1,1-Dichloroethene	ND		20	5.8	ug/L			06/22/22 03:41	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			06/22/22 03:41	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			06/22/22 03:41	20
1,2-Dibromoethane	ND		20	15	ug/L			06/22/22 03:41	20
1,2-Dichlorobenzene	ND		20	16	ug/L			06/22/22 03:41	20
1,2-Dichloroethane	ND		20	4.2	ug/L			06/22/22 03:41	20
1,2-Dichloropropane	ND		20	14	ug/L			06/22/22 03:41	20
1,3-Dichlorobenzene	ND		20	16	ug/L			06/22/22 03:41	20
1,4-Dichlorobenzene	ND		20	17	ug/L			06/22/22 03:41	20
2-Hexanone	ND		100	25	ug/L			06/22/22 03:41	20
2-Butanone (MEK)	ND		200	26	ug/L			06/22/22 03:41	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			06/22/22 03:41	20
Acetone	ND		200	60	ug/L			06/22/22 03:41	20
Benzene	ND		20	8.2	ug/L			06/22/22 03:41	20
Bromodichloromethane	ND		20	7.8	ug/L			06/22/22 03:41	20
Bromoform	ND		20	5.2	ug/L			06/22/22 03:41	20
Bromomethane	ND		20	14	ug/L			06/22/22 03:41	20
Carbon disulfide	ND		20	3.8	ug/L			06/22/22 03:41	20
Carbon tetrachloride	ND		20	5.4	ug/L			06/22/22 03:41	20
Chlorobenzene	ND		20	15	ug/L			06/22/22 03:41	20
Dibromochloromethane	ND		20	6.4	ug/L			06/22/22 03:41	20
Chloroethane	**12**	**J**	20	6.4	ug/L			06/22/22 03:41	20
Chloroform	ND		20	6.8	ug/L			06/22/22 03:41	20
1,4-Dioxane	ND		800	190	ug/L			06/22/22 03:41	20
Chloromethane	ND		20	7.0	ug/L			06/22/22 03:41	20
cis-1,2-Dichloroethene	**41**		20	16	ug/L			06/22/22 03:41	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			06/22/22 03:41	20
Cyclohexane	ND		20	3.6	ug/L			06/22/22 03:41	20
Dichlorodifluoromethane	ND		20	14	ug/L			06/22/22 03:41	20
Ethylbenzene	ND		20	15	ug/L			06/22/22 03:41	20
Isopropylbenzene	ND		20	16	ug/L			06/22/22 03:41	20
Methyl acetate	ND		50	26	ug/L			06/22/22 03:41	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			06/22/22 03:41	20
Methylcyclohexane	ND		20	3.2	ug/L			06/22/22 03:41	20
Methylene Chloride	ND		20	8.8	ug/L			06/22/22 03:41	20
Styrene	ND		20	15	ug/L			06/22/22 03:41	20
Tetrachloroethene	ND		20	7.2	ug/L			06/22/22 03:41	20
Toluene	ND		20	10	ug/L			06/22/22 03:41	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			06/22/22 03:41	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			06/22/22 03:41	20
Trichloroethene	ND		20	9.2	ug/L			06/22/22 03:41	20
Trichlorofluoromethane	ND		20	18	ug/L			06/22/22 03:41	20
Vinyl chloride	**41**		20	18	ug/L			06/22/22 03:41	20
Xylenes, Total	ND		40	13	ug/L			06/22/22 03:41	20

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: BLIND DUP
Date Collected: 06/15/22 08:00
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/22/22 03:41*	*20*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/22/22 03:41*	*20*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*06/22/22 03:41*	*20*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/22/22 03:41*	*20*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**14**		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 18:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/17/22 08:32*	*06/22/22 18:05*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-24
Date Collected: 06/15/22 13:25
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/22/22 04:04	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/22/22 04:04	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/22/22 04:04	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/22/22 04:04	10
1,1-Dichloroethane	**630**		10	3.8	ug/L			06/22/22 04:04	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/22/22 04:04	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/22/22 04:04	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/22/22 04:04	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/22/22 04:04	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			06/22/22 04:04	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/22/22 04:04	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/22/22 04:04	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/22/22 04:04	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/22/22 04:04	10
2-Hexanone	ND		50	12	ug/L			06/22/22 04:04	10
2-Butanone (MEK)	ND		100	13	ug/L			06/22/22 04:04	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/22/22 04:04	10
Acetone	ND		100	30	ug/L			06/22/22 04:04	10
Benzene	ND		10	4.1	ug/L			06/22/22 04:04	10
Bromodichloromethane	ND		10	3.9	ug/L			06/22/22 04:04	10
Bromoform	ND		10	2.6	ug/L			06/22/22 04:04	10
Bromomethane	ND		10	6.9	ug/L			06/22/22 04:04	10
Carbon disulfide	ND		10	1.9	ug/L			06/22/22 04:04	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/22/22 04:04	10
Chlorobenzene	ND		10	7.5	ug/L			06/22/22 04:04	10
Dibromochloromethane	ND		10	3.2	ug/L			06/22/22 04:04	10
Chloroethane	ND		10	3.2	ug/L			06/22/22 04:04	10
Chloroform	ND		10	3.4	ug/L			06/22/22 04:04	10
1,4-Dioxane	ND		400	93	ug/L			06/22/22 04:04	10
Chloromethane	ND		10	3.5	ug/L			06/22/22 04:04	10
cis-1,2-Dichloroethene	**20**		10	8.1	ug/L			06/22/22 04:04	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/22/22 04:04	10
Cyclohexane	ND		10	1.8	ug/L			06/22/22 04:04	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/22/22 04:04	10
Ethylbenzene	ND		10	7.4	ug/L			06/22/22 04:04	10
Isopropylbenzene	ND		10	7.9	ug/L			06/22/22 04:04	10
Methyl acetate	ND		25	13	ug/L			06/22/22 04:04	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/22/22 04:04	10
Methylcyclohexane	ND		10	1.6	ug/L			06/22/22 04:04	10
Methylene Chloride	ND		10	4.4	ug/L			06/22/22 04:04	10
Styrene	ND		10	7.3	ug/L			06/22/22 04:04	10
Tetrachloroethene	ND		10	3.6	ug/L			06/22/22 04:04	10
Toluene	ND		10	5.1	ug/L			06/22/22 04:04	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/22/22 04:04	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/22/22 04:04	10
Trichloroethene	ND		10	4.6	ug/L			06/22/22 04:04	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/22/22 04:04	10
Vinyl chloride	**51**		10	9.0	ug/L			06/22/22 04:04	10
Xylenes, Total	ND		20	6.6	ug/L			06/22/22 04:04	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-24
Date Collected: 06/15/22 13:25
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/22/22 04:04*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/22/22 04:04*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*06/22/22 04:04*	*10*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/22/22 04:04*	*10*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**17**		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 18:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*15 - 110*	*06/17/22 08:32*	*06/22/22 18:28*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**10**		7.5	1.5	ug/L			06/21/22 00:21	1
Ethene	**20**		7.0	1.5	ug/L			06/21/22 00:21	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3200**		88	22	ug/L			06/21/22 18:01	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		10.0	5.6	mg/L			06/22/22 19:07	20
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-21
Date Collected: 06/15/22 11:20
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 14:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 14:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 14:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/22/22 14:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 14:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 14:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 14:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 14:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 14:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 14:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 14:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 14:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 14:12	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 14:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 14:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 14:12	1
Acetone	ND		10	3.0	ug/L			06/22/22 14:12	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 14:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 14:12	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 14:12	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 14:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 14:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 14:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 14:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 14:12	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/22 14:12	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 14:12	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 14:12	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 14:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 14:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 14:12	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 14:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 14:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 14:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 14:12	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 14:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 14:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 14:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 14:12	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 14:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 14:12	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 14:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 14:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 14:12	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 14:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 14:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/22/22 14:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 14:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-21
Date Collected: 06/15/22 11:20
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/22/22 14:12*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/22/22 14:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/22/22 14:12*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/22/22 14:12*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.4**		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 18:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*06/17/22 08:32*	*06/22/22 18:50*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**84**		4.0	1.0	ug/L			06/21/22 18:20	1
Ethane	ND		7.5	1.5	ug/L			06/21/22 18:20	1
Ethene	ND		7.0	1.5	ug/L			06/21/22 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1290**		5.0	2.8	mg/L			06/22/22 19:21	10
Ferrous Iron	**0.32**	**HF**	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-23
Date Collected: 06/15/22 09:00
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 04:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 04:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 04:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 04:50	1
1,1-Dichloroethane	**7.9**		1.0	0.38	ug/L			06/22/22 04:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 04:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 04:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 04:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 04:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 04:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 04:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 04:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 04:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 04:50	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 04:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 04:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 04:50	1
Acetone	ND		10	3.0	ug/L			06/22/22 04:50	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 04:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 04:50	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 04:50	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 04:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 04:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 04:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 04:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 04:50	1
Chloroethane	**12**		1.0	0.32	ug/L			06/22/22 04:50	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 04:50	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 04:50	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 04:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 04:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 04:50	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 04:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 04:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 04:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 04:50	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 04:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 04:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 04:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 04:50	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 04:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 04:50	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 04:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 04:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 04:50	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 04:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 04:50	1
Vinyl chloride	**3.4**		1.0	0.90	ug/L			06/22/22 04:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 04:50	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-23

Date Collected: 06/15/22 09:00
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/22/22 04:50*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/22/22 04:50*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/22/22 04:50*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/22/22 04:50*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**33**	**E**	0.20	0.10	ug/L		06/17/22 08:32	06/22/22 19:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*06/17/22 08:32*	*06/22/22 19:12*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2400**		44	11	ug/L			06/21/22 00:59	11
Ethane	ND		83	17	ug/L			06/21/22 00:59	11
Ethene	ND		77	17	ug/L			06/21/22 00:59	11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**545**		2.5	1.4	mg/L			06/22/22 19:35	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 06/15/22 11:45
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 05:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 05:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 05:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 05:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/22/22 05:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 05:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 05:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 05:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 05:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 05:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 05:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 05:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 05:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 05:13	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 05:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 05:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 05:13	1
Acetone	ND		10	3.0	ug/L			06/22/22 05:13	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 05:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 05:13	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 05:13	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 05:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 05:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 05:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 05:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 05:13	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/22 05:13	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 05:13	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 05:13	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 05:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 05:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 05:13	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 05:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 05:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 05:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 05:13	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 05:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 05:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 05:13	1
Methylene Chloride	**7.4**		1.0	0.44	ug/L			06/22/22 05:13	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 05:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 05:13	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 05:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 05:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 05:13	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 05:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 05:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/22/22 05:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 05:13	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 06/15/22 11:45
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/22/22 05:13*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/22/22 05:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/22/22 05:13*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*06/22/22 05:13*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 19:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*15 - 110*	*06/17/22 08:32*	*06/22/22 19:34*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-23D
Date Collected: 06/15/22 09:30
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/22/22 05:37	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/22/22 05:37	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/22/22 05:37	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/22/22 05:37	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/22/22 05:37	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/22/22 05:37	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/22/22 05:37	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/22/22 05:37	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/22/22 05:37	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/22/22 05:37	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/22/22 05:37	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/22/22 05:37	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/22/22 05:37	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/22/22 05:37	4
2-Hexanone	ND		20	5.0	ug/L			06/22/22 05:37	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/22/22 05:37	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/22/22 05:37	4
Acetone	**18**	**J**	40	12	ug/L			06/22/22 05:37	4
Benzene	**14**		4.0	1.6	ug/L			06/22/22 05:37	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/22/22 05:37	4
Bromoform	ND		4.0	1.0	ug/L			06/22/22 05:37	4
Bromomethane	ND		4.0	2.8	ug/L			06/22/22 05:37	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/22/22 05:37	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/22/22 05:37	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/22/22 05:37	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/22/22 05:37	4
Chloroethane	**3.9**	**J**	4.0	1.3	ug/L			06/22/22 05:37	4
Chloroform	ND		4.0	1.4	ug/L			06/22/22 05:37	4
1,4-Dioxane	ND		160	37	ug/L			06/22/22 05:37	4
Chloromethane	ND		4.0	1.4	ug/L			06/22/22 05:37	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			06/22/22 05:37	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/22/22 05:37	4
Cyclohexane	**28**		4.0	0.72	ug/L			06/22/22 05:37	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/22/22 05:37	4
Ethylbenzene	**11**		4.0	3.0	ug/L			06/22/22 05:37	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/22/22 05:37	4
Methyl acetate	ND		10	5.2	ug/L			06/22/22 05:37	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/22/22 05:37	4
Methylcyclohexane	**9.4**		4.0	0.64	ug/L			06/22/22 05:37	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/22/22 05:37	4
Styrene	ND		4.0	2.9	ug/L			06/22/22 05:37	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/22/22 05:37	4
Toluene	ND		4.0	2.0	ug/L			06/22/22 05:37	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/22/22 05:37	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/22/22 05:37	4
Trichloroethene	ND		4.0	1.8	ug/L			06/22/22 05:37	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/22/22 05:37	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/22/22 05:37	4
Xylenes, Total	**28**		8.0	2.6	ug/L			06/22/22 05:37	4

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: MW-23D

Date Collected: 06/15/22 09:30
Date Received: 06/15/22 15:30

Lab Sample ID: 480-199093-13

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/22/22 05:37*	*4*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/22/22 05:37*	*4*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/22/22 05:37*	*4*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/22/22 05:37*	*4*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**24**	**E**	0.20	0.10	ug/L		06/17/22 08:32	06/22/22 19:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*06/17/22 08:32*	*06/22/22 19:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4700**		88	22	ug/L			06/21/22 01:18	22
Ethane	**190**		170	33	ug/L			06/21/22 01:18	22
Ethene	ND		150	33	ug/L			06/21/22 01:18	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**386**		2.5	1.4	mg/L			06/22/22 19:49	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/22 13:30	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-199093-1	MW-7	101	95	95	101
480-199093-2	MW-8R	104	93	97	105
480-199093-3	MW-9R	103	94	93	101
480-199093-3 MS	MW-9R	102	98	100	102
480-199093-3 MSD	MW-9R	103	95	98	104
480-199093-4	MW-9D	103	95	100	106
480-199093-4 - DL	MW-9D	101	93	93	100
480-199093-5	MW-20	104	93	98	103
480-199093-6	MW-20D	101	90	98	101
480-199093-7	MW-22R	101	91	97	106
480-199093-8	BLIND DUP	103	95	93	105
480-199093-9	MW-24	100	96	94	100
480-199093-10	MW-21	105	94	96	103
480-199093-11	MW-23	105	89	96	102
480-199093-12	EQUIPMENT BLANK	105	92	97	107
480-199093-13	MW-23D	104	93	102	99
LCS 480-630923/6	Lab Control Sample	99	97	103	101
LCS 480-631027/5	Lab Control Sample	99	98	101	102
MB 480-630923/8	Method Blank	101	94	94	98
MB 480-631027/7	Method Blank	98	94	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-199093-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		DXE						
Lab Sample ID	Client Sample ID	(15-110)						
480-199093-1	MW-7	29						
480-199093-2	MW-8R	27						
480-199093-3	MW-9R	31						
480-199093-3 MS	MW-9R	29						
480-199093-3 MSD	MW-9R	35						
480-199093-4	MW-9D	28						
480-199093-5	MW-20	31						
480-199093-6	MW-20D	29						
480-199093-7	MW-22R	29						
480-199093-8	BLIND DUP	31						
480-199093-9	MW-24	27						
480-199093-10	MW-21	33						
480-199093-11	MW-23	32						
480-199093-12	EQUIPMENT BLANK	27						
480-199093-13	MW-23D	28						
LCS 480-630432/2-A	Lab Control Sample	31						
MB 480-630432/1-A	Method Blank	30						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-630923/8
Matrix: Water
Analysis Batch: 630923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 00:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 00:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 00:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 00:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/22/22 00:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 00:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 00:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 00:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 00:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 00:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 00:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 00:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 00:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 00:35	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 00:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 00:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 00:35	1
Acetone	ND		10	3.0	ug/L			06/22/22 00:35	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 00:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 00:35	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 00:35	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 00:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 00:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 00:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 00:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 00:35	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/22 00:35	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 00:35	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 00:35	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 00:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 00:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 00:35	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 00:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 00:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 00:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 00:35	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 00:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 00:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 00:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 00:35	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 00:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 00:35	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 00:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 00:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 00:35	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 00:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 00:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/22/22 00:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-630923/8
Matrix: Water
Analysis Batch: 630923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 00:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/22/22 00:35*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/22/22 00:35*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*06/22/22 00:35*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/22/22 00:35*	*1*

Lab Sample ID: LCS 480-630923/6
Matrix: Water
Analysis Batch: 630923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	23.6		ug/L		95	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	76 - 120
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.2		ug/L		93	61 - 148
1,1-Dichloroethane	25.0	23.0		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	22.8		ug/L		91	66 - 127
1,2,4-Trichlorobenzene	25.0	23.5		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	56 - 134
1,2-Dibromoethane	25.0	24.4		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.5		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 120
2-Hexanone	125	127		ug/L		102	65 - 127
2-Butanone (MEK)	125	121		ug/L		97	57 - 140
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		100	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	24.2		ug/L		97	61 - 132
Bromomethane	25.0	20.0		ug/L		80	55 - 144
Carbon disulfide	25.0	21.9		ug/L		87	59 - 134
Carbon tetrachloride	25.0	22.7		ug/L		91	72 - 134
Chlorobenzene	25.0	23.8		ug/L		95	80 - 120
Dibromochloromethane	25.0	24.4		ug/L		97	75 - 125
Chloroethane	25.0	20.2		ug/L		81	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
1,4-Dioxane	500	566		ug/L		113	50 - 150
Chloromethane	25.0	19.6		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	24.2		ug/L		97	74 - 124
Cyclohexane	25.0	23.1		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	17.9		ug/L		71	59 - 135
Ethylbenzene	25.0	22.8		ug/L		91	77 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-630923/6
Matrix: Water
Analysis Batch: 630923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	25.0	22.1		ug/L		88	77 - 122
Methyl acetate	50.0	47.7		ug/L		95	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	22.4		ug/L		90	68 - 134
Methylene Chloride	25.0	25.2		ug/L		101	75 - 124
Styrene	25.0	25.5		ug/L		102	80 - 120
Tetrachloroethene	25.0	22.3		ug/L		89	74 - 122
Toluene	25.0	23.0		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
Trichloroethene	25.0	22.8		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	22.3		ug/L		89	62 - 150
Vinyl chloride	25.0	22.5		ug/L		90	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-199093-3 MS
Matrix: Water
Analysis Batch: 630923

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1.1		25.0	27.3		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	25.3		ug/L		101	76 - 120
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.0		ug/L		96	61 - 148
1,1-Dichloroethane	ND		25.0	24.9		ug/L		100	77 - 120
1,1-Dichloroethene	ND		25.0	25.9		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	23.5		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		94	56 - 134
1,2-Dibromoethane	ND		25.0	26.0		ug/L		104	77 - 120
1,2-Dichlorobenzene	ND		25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	ND		25.0	24.9		ug/L		100	75 - 120
1,2-Dichloropropane	ND		25.0	25.8		ug/L		103	76 - 120
1,3-Dichlorobenzene	ND		25.0	24.8		ug/L		99	77 - 120
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		98	78 - 124
2-Hexanone	ND		125	132		ug/L		106	65 - 127
2-Butanone (MEK)	ND		125	121		ug/L		97	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	131		ug/L		105	71 - 125
Acetone	ND		125	116		ug/L		93	56 - 142
Benzene	ND		25.0	25.4		ug/L		102	71 - 124
Bromodichloromethane	ND		25.0	25.2		ug/L		101	80 - 122
Bromoform	ND	F2	25.0	26.1		ug/L		105	61 - 132
Bromomethane	ND		25.0	22.6		ug/L		90	55 - 144
Carbon disulfide	ND		25.0	23.9		ug/L		96	59 - 134
Carbon tetrachloride	ND		25.0	26.6		ug/L		106	72 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-199093-3 MS
Matrix: Water
Analysis Batch: 630923

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	ND		25.0	25.6		ug/L		102	80 - 120
Dibromochloromethane	ND		25.0	25.4		ug/L		102	75 - 125
Chloroethane	ND		25.0	23.7		ug/L		95	69 - 136
Chloroform	ND		25.0	24.6		ug/L		98	73 - 127
1,4-Dioxane	ND	F2	500	445		ug/L		89	50 - 150
Chloromethane	ND		25.0	21.7		ug/L		87	68 - 124
cis-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	74 - 124
cis-1,3-Dichloropropene	ND		25.0	23.4		ug/L		94	74 - 124
Cyclohexane	ND		25.0	25.1		ug/L		101	59 - 135
Dichlorodifluoromethane	ND		25.0	19.4		ug/L		78	59 - 135
Ethylbenzene	ND		25.0	24.9		ug/L		100	77 - 123
Isopropylbenzene	ND		25.0	24.1		ug/L		96	77 - 122
Methyl acetate	ND		50.0	44.2		ug/L		88	74 - 133
Methyl tert-butyl ether	ND		25.0	23.4		ug/L		94	77 - 120
Methylcyclohexane	ND		25.0	22.6		ug/L		90	68 - 134
Methylene Chloride	ND		25.0	27.6		ug/L		110	75 - 124
Styrene	ND		25.0	27.0		ug/L		108	80 - 120
Tetrachloroethene	1.7		25.0	26.5		ug/L		99	74 - 122
Toluene	ND		25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	ND		25.0	25.5		ug/L		102	73 - 127
Trichloroethene	ND		25.0	24.3		ug/L		97	74 - 123
Trichlorofluoromethane	ND		25.0	25.6		ug/L		103	62 - 150
Vinyl chloride	ND		25.0	26.4		ug/L		106	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-199093-3 MSD
Matrix: Water
Analysis Batch: 630923

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.1		25.0	25.8		ug/L		99	73 - 126	5	15
1,1,2,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	76 - 120	5	15
1,1,2-Trichloroethane	ND		25.0	24.2		ug/L		97	76 - 122	7	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.5		ug/L		90	61 - 148	6	20
1,1-Dichloroethane	ND		25.0	23.5		ug/L		94	77 - 120	6	20
1,1-Dichloroethene	ND		25.0	24.0		ug/L		96	66 - 127	8	16
1,2,4-Trichlorobenzene	ND		25.0	21.4		ug/L		85	79 - 122	9	20
1,2-Dibromo-3-Chloropropane	ND		25.0	23.8		ug/L		95	56 - 134	1	15
1,2-Dibromoethane	ND		25.0	23.2		ug/L		93	77 - 120	11	15
1,2-Dichlorobenzene	ND		25.0	23.0		ug/L		92	80 - 124	7	20
1,2-Dichloroethane	ND		25.0	23.7		ug/L		95	75 - 120	5	20
1,2-Dichloropropane	ND		25.0	24.3		ug/L		97	76 - 120	6	20
1,3-Dichlorobenzene	ND		25.0	22.7		ug/L		91	77 - 120	9	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-199093-3 MSD
Matrix: Water
Analysis Batch: 630923

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		25.0	22.9		ug/L		91	78 - 124	7	20
2-Hexanone	ND		125	126		ug/L		101	65 - 127	5	15
2-Butanone (MEK)	ND		125	121		ug/L		97	57 - 140	0	20
4-Methyl-2-pentanone (MIBK)	ND		125	123		ug/L		98	71 - 125	7	35
Acetone	ND		125	117		ug/L		94	56 - 142	1	15
Benzene	ND		25.0	23.7		ug/L		95	71 - 124	7	13
Bromodichloromethane	ND		25.0	23.8		ug/L		95	80 - 122	6	15
Bromoform	ND	F2	25.0	21.7	F2	ug/L		87	61 - 132	19	15
Bromomethane	ND		25.0	21.9		ug/L		88	55 - 144	3	15
Carbon disulfide	ND		25.0	23.1		ug/L		93	59 - 134	3	15
Carbon tetrachloride	ND		25.0	24.8		ug/L		99	72 - 134	7	15
Chlorobenzene	ND		25.0	23.1		ug/L		93	80 - 120	10	25
Dibromochloromethane	ND		25.0	22.0		ug/L		88	75 - 125	15	15
Chloroethane	ND		25.0	23.8		ug/L		95	69 - 136	0	15
Chloroform	ND		25.0	23.3		ug/L		93	73 - 127	5	20
1,4-Dioxane	ND	F2	500	600	F2	ug/L		120	50 - 150	30	20
Chloromethane	ND		25.0	21.8		ug/L		87	68 - 124	0	15
cis-1,2-Dichloroethene	ND		25.0	23.3		ug/L		93	74 - 124	6	15
cis-1,3-Dichloropropene	ND		25.0	22.8		ug/L		91	74 - 124	3	15
Cyclohexane	ND		25.0	23.2		ug/L		93	59 - 135	8	20
Dichlorodifluoromethane	ND		25.0	17.5		ug/L		70	59 - 135	10	20
Ethylbenzene	ND		25.0	22.8		ug/L		91	77 - 123	9	15
Isopropylbenzene	ND		25.0	22.2		ug/L		89	77 - 122	8	20
Methyl acetate	ND		50.0	45.0		ug/L		90	74 - 133	2	20
Methyl tert-butyl ether	ND		25.0	22.3		ug/L		89	77 - 120	5	37
Methylcyclohexane	ND		25.0	20.9		ug/L		84	68 - 134	8	20
Methylene Chloride	ND		25.0	24.8		ug/L		99	75 - 124	10	15
Styrene	ND		25.0	23.8		ug/L		95	80 - 120	13	20
Tetrachloroethene	1.7		25.0	25.2		ug/L		94	74 - 122	5	20
Toluene	ND		25.0	22.6		ug/L		90	80 - 122	8	15
trans-1,2-Dichloroethene	ND		25.0	23.8		ug/L		95	73 - 127	7	20
Trichloroethene	ND		25.0	23.5		ug/L		94	74 - 123	3	16
Trichlorofluoromethane	ND		25.0	24.6		ug/L		98	62 - 150	4	20
Vinyl chloride	ND		25.0	25.8		ug/L		103	65 - 133	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: MB 480-631027/7
Matrix: Water
Analysis Batch: 631027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/22 12:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/22 12:50	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-631027/7
Matrix: Water
Analysis Batch: 631027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/22 12:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/22 12:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/22/22 12:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/22 12:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/22 12:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/22 12:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/22 12:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/22 12:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/22 12:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/22 12:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/22 12:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/22 12:50	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/22 12:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/22 12:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/22 12:50	1
Acetone	ND		10	3.0	ug/L			06/22/22 12:50	1
Benzene	ND		1.0	0.41	ug/L			06/22/22 12:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/22 12:50	1
Bromoform	ND		1.0	0.26	ug/L			06/22/22 12:50	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/22 12:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/22 12:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/22 12:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/22 12:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/22 12:50	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/22 12:50	1
Chloroform	ND		1.0	0.34	ug/L			06/22/22 12:50	1
1,4-Dioxane	ND		40	9.3	ug/L			06/22/22 12:50	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/22 12:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/22 12:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/22 12:50	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/22 12:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/22 12:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/22 12:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/22 12:50	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/22 12:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/22 12:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/22 12:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/22 12:50	1
Styrene	ND		1.0	0.73	ug/L			06/22/22 12:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/22 12:50	1
Toluene	ND		1.0	0.51	ug/L			06/22/22 12:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/22 12:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/22 12:50	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/22 12:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/22 12:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/22/22 12:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/22 12:50	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-631027/7
Matrix: Water
Analysis Batch: 631027

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*06/22/22 12:50*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/22/22 12:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/22/22 12:50*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/22/22 12:50*	*1*

Lab Sample ID: LCS 480-631027/5
Matrix: Water
Analysis Batch: 631027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.8		ug/L		99	61 - 148
1,1-Dichloroethane	25.0	24.7		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	24.7		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	56 - 134
1,2-Dibromoethane	25.0	25.2		ug/L		101	77 - 120
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	25.1		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	26.3		ug/L		105	76 - 120
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 120
2-Hexanone	125	121		ug/L		97	65 - 127
2-Butanone (MEK)	125	114		ug/L		91	57 - 140
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	118		ug/L		94	56 - 142
Benzene	25.0	25.2		ug/L		101	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		105	80 - 122
Bromoform	25.0	24.4		ug/L		98	61 - 132
Bromomethane	25.0	21.3		ug/L		85	55 - 144
Carbon disulfide	25.0	24.1		ug/L		96	59 - 134
Carbon tetrachloride	25.0	25.2		ug/L		101	72 - 134
Chlorobenzene	25.0	25.6		ug/L		102	80 - 120
Dibromochloromethane	25.0	25.5		ug/L		102	75 - 125
Chloroethane	25.0	21.0		ug/L		84	69 - 136
Chloroform	25.0	24.8		ug/L		99	73 - 127
1,4-Dioxane	500	548		ug/L		110	50 - 150
Chloromethane	25.0	19.6		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	74 - 124
Cyclohexane	25.0	25.7		ug/L		103	59 - 135
Dichlorodifluoromethane	25.0	14.7		ug/L		59	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122
Methyl acetate	50.0	44.6		ug/L		89	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-631027/5
Matrix: Water
Analysis Batch: 631027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylcyclohexane	25.0	25.1		ug/L		101	68 - 134
Methylene Chloride	25.0	27.1		ug/L		108	75 - 124
Styrene	25.0	27.8		ug/L		111	80 - 120
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	73 - 127
Trichloroethene	25.0	23.9		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	21.1		ug/L		84	62 - 150
Vinyl chloride	25.0	21.8		ug/L		87	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-630432/1-A
Matrix: Water
Analysis Batch: 631033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/17/22 08:32	06/22/22 12:31	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*06/17/22 08:32*	*06/22/22 12:31*	*1*

Lab Sample ID: LCS 480-630432/2-A
Matrix: Water
Analysis Batch: 631033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.00	2.34		ug/L		117	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*31*		*15 - 110*

Lab Sample ID: 480-199093-3 MS
Matrix: Water
Analysis Batch: 631033

Client Sample ID: MW-9R
Prep Type: Total/NA
Prep Batch: 630432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	ND		2.00	2.42		ug/L		121	40 - 140

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*29*		*15 - 110*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 480-199093-3 MSD
Matrix: Water
Analysis Batch: 631033

Client Sample ID: MW-9R
Prep Type: Total/NA
Prep Batch: 630432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		2.00	2.41		ug/L		121	40 - 140	0	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*35*		*15 - 110*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-630761/26
Matrix: Water
Analysis Batch: 630761

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			06/20/22 21:13	1
Ethane	ND		7.5	1.5	ug/L			06/20/22 21:13	1
Ethene	ND		7.0	1.5	ug/L			06/20/22 21:13	1

Lab Sample ID: LCS 480-630761/27
Matrix: Water
Analysis Batch: 630761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.4	17.4		ug/L		90	85 - 120
Ethane	36.3	34.5		ug/L		95	79 - 120
Ethene	34.0	33.1		ug/L		97	85 - 120

Lab Sample ID: LCSD 480-630761/28
Matrix: Water
Analysis Batch: 630761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.4	17.0		ug/L		88	85 - 120	2	50
Ethane	36.3	32.1		ug/L		88	79 - 120	7	50
Ethene	34.0	31.4		ug/L		92	85 - 120	5	50

Lab Sample ID: MB 480-630927/3
Matrix: Water
Analysis Batch: 630927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			06/21/22 14:00	1
Ethane	ND		7.5	1.5	ug/L			06/21/22 14:00	1
Ethene	ND		7.0	1.5	ug/L			06/21/22 14:00	1

Lab Sample ID: LCS 480-630927/4
Matrix: Water
Analysis Batch: 630927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.4	18.9		ug/L		97	85 - 120

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 480-630927/4
Matrix: Water
Analysis Batch: 630927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane			36.3	37.2		ug/L		102	79 - 120		
Ethene			34.0	35.5		ug/L		104	85 - 120		

Lab Sample ID: LCSD 480-630927/5
Matrix: Water
Analysis Batch: 630927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane			19.4	18.4		ug/L		95	85 - 120	3	50
Ethane			36.3	36.8		ug/L		101	79 - 120	1	50
Ethene			34.0	35.9		ug/L		105	85 - 120	1	50

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-631150/4
Matrix: Water
Analysis Batch: 631150

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			06/22/22 16:03	1

Lab Sample ID: LCS 480-631150/5
Matrix: Water
Analysis Batch: 631150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	50.64		mg/L		101	90 - 110		

Lab Sample ID: 480-199093-6 MS
Matrix: Water
Analysis Batch: 631150

Client Sample ID: MW-20D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	474		251	702.8		mg/L		91	81 - 120		

Lab Sample ID: 480-199093-6 MSD
Matrix: Water
Analysis Batch: 631150

Client Sample ID: MW-20D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	474		251	700.9		mg/L		90	81 - 120	0	15

Lab Sample ID: MB 480-631400/4
Matrix: Water
Analysis Batch: 631400

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			06/23/22 20:24	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-631400/5
Matrix: Water
Analysis Batch: 631400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	48.35		mg/L		97	90 - 110		

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-630606/29
Matrix: Water
Analysis Batch: 630606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/18/22 13:30	1

Lab Sample ID: MB 480-630606/3
Matrix: Water
Analysis Batch: 630606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/18/22 13:30	1

Lab Sample ID: LCS 480-630606/30
Matrix: Water
Analysis Batch: 630606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			2.00	2.00		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-630606/4
Matrix: Water
Analysis Batch: 630606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			2.00	2.00		mg/L		100	90 - 110		

Lab Sample ID: 480-199093-3 MS
Matrix: Water
Analysis Batch: 630606

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	ND	HF	1.00	1.01		mg/L		101	70 - 130		

Lab Sample ID: 480-199093-6 MS
Matrix: Water
Analysis Batch: 630606

Client Sample ID: MW-20D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	ND	HF	1.00	1.01		mg/L		101	70 - 130		

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 480-199093-9 MS — **Client Sample ID: MW-24**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	ND	HF	1.00	1.05		mg/L		105	70 - 130

Lab Sample ID: 480-199093-1 DU — **Client Sample ID: MW-7**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Lab Sample ID: 480-199093-2 DU — **Client Sample ID: MW-8R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Lab Sample ID: 480-199093-3 DU — **Client Sample ID: MW-9R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Lab Sample ID: 480-199093-4 DU — **Client Sample ID: MW-9D**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	0.39	HF	0.397		mg/L		2	20

Lab Sample ID: 480-199093-5 DU — **Client Sample ID: MW-20**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	0.41	HF	0.421		mg/L		3	20

Lab Sample ID: 480-199093-6 DU — **Client Sample ID: MW-20D**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Lab Sample ID: 480-199093-7 DU — **Client Sample ID: MW-22R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: 480-199093-9 DU
Client Sample ID: MW-24
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-199093-10 DU
Client Sample ID: MW-21
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	0.32	HF		0.336		mg/L				6	20

Lab Sample ID: 480-199093-11 DU
Client Sample ID: MW-23
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-199093-13 DU
Client Sample ID: MW-23D
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 630606

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 630923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-1	MW-7	Total/NA	Water	8260C	
480-199093-2	MW-8R	Total/NA	Water	8260C	
480-199093-3	MW-9R	Total/NA	Water	8260C	
480-199093-4	MW-9D	Total/NA	Water	8260C	
480-199093-5	MW-20	Total/NA	Water	8260C	
480-199093-6	MW-20D	Total/NA	Water	8260C	
480-199093-7	MW-22R	Total/NA	Water	8260C	
480-199093-8	BLIND DUP	Total/NA	Water	8260C	
480-199093-9	MW-24	Total/NA	Water	8260C	
480-199093-11	MW-23	Total/NA	Water	8260C	
480-199093-12	EQUIPMENT BLANK	Total/NA	Water	8260C	
480-199093-13	MW-23D	Total/NA	Water	8260C	
MB 480-630923/8	Method Blank	Total/NA	Water	8260C	
LCS 480-630923/6	Lab Control Sample	Total/NA	Water	8260C	
480-199093-3 MS	MW-9R	Total/NA	Water	8260C	
480-199093-3 MSD	MW-9R	Total/NA	Water	8260C	

Analysis Batch: 631027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-4 - DL	MW-9D	Total/NA	Water	8260C	
480-199093-10	MW-21	Total/NA	Water	8260C	
MB 480-631027/7	Method Blank	Total/NA	Water	8260C	
LCS 480-631027/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 630432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-1	MW-7	Total/NA	Water	3510C	
480-199093-2	MW-8R	Total/NA	Water	3510C	
480-199093-3	MW-9R	Total/NA	Water	3510C	
480-199093-4	MW-9D	Total/NA	Water	3510C	
480-199093-5	MW-20	Total/NA	Water	3510C	
480-199093-6	MW-20D	Total/NA	Water	3510C	
480-199093-7	MW-22R	Total/NA	Water	3510C	
480-199093-8	BLIND DUP	Total/NA	Water	3510C	
480-199093-9	MW-24	Total/NA	Water	3510C	
480-199093-10	MW-21	Total/NA	Water	3510C	
480-199093-11	MW-23	Total/NA	Water	3510C	
480-199093-12	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-199093-13	MW-23D	Total/NA	Water	3510C	
MB 480-630432/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-630432/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-199093-3 MS	MW-9R	Total/NA	Water	3510C	
480-199093-3 MSD	MW-9R	Total/NA	Water	3510C	

Analysis Batch: 631033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-1	MW-7	Total/NA	Water	8270D SIM ID	630432
480-199093-2	MW-8R	Total/NA	Water	8270D SIM ID	630432
480-199093-3	MW-9R	Total/NA	Water	8270D SIM ID	630432

GC/MS Semi VOA (Continued)

Analysis Batch: 631033 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-4	MW-9D	Total/NA	Water	8270D SIM ID	630432
480-199093-5	MW-20	Total/NA	Water	8270D SIM ID	630432
480-199093-6	MW-20D	Total/NA	Water	8270D SIM ID	630432
480-199093-7	MW-22R	Total/NA	Water	8270D SIM ID	630432
480-199093-8	BLIND DUP	Total/NA	Water	8270D SIM ID	630432
480-199093-9	MW-24	Total/NA	Water	8270D SIM ID	630432
480-199093-10	MW-21	Total/NA	Water	8270D SIM ID	630432
480-199093-11	MW-23	Total/NA	Water	8270D SIM ID	630432
480-199093-12	EQUIPMENT BLANK	Total/NA	Water	8270D SIM ID	630432
480-199093-13	MW-23D	Total/NA	Water	8270D SIM ID	630432
MB 480-630432/1-A	Method Blank	Total/NA	Water	8270D SIM ID	630432
LCS 480-630432/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	630432
480-199093-3 MS	MW-9R	Total/NA	Water	8270D SIM ID	630432
480-199093-3 MSD	MW-9R	Total/NA	Water	8270D SIM ID	630432

GC VOA

Analysis Batch: 630761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-1	MW-7	Total/NA	Water	RSK-175	
480-199093-2	MW-8R	Total/NA	Water	RSK-175	
480-199093-3	MW-9R	Total/NA	Water	RSK-175	
480-199093-4	MW-9D	Total/NA	Water	RSK-175	
480-199093-6	MW-20D	Total/NA	Water	RSK-175	
480-199093-7	MW-22R	Total/NA	Water	RSK-175	
480-199093-9	MW-24	Total/NA	Water	RSK-175	
480-199093-11	MW-23	Total/NA	Water	RSK-175	
480-199093-13	MW-23D	Total/NA	Water	RSK-175	
MB 480-630761/26	Method Blank	Total/NA	Water	RSK-175	
LCS 480-630761/27	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-630761/28	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 630927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-1 - DL	MW-7	Total/NA	Water	RSK-175	
480-199093-2 - DL	MW-8R	Total/NA	Water	RSK-175	
480-199093-4 - DL	MW-9D	Total/NA	Water	RSK-175	
480-199093-5	MW-20	Total/NA	Water	RSK-175	
480-199093-6 - DL	MW-20D	Total/NA	Water	RSK-175	
480-199093-7 - DL	MW-22R	Total/NA	Water	RSK-175	
480-199093-9 - DL	MW-24	Total/NA	Water	RSK-175	
480-199093-10	MW-21	Total/NA	Water	RSK-175	
MB 480-630927/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-630927/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-630927/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 630606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-1	MW-7	Total/NA	Water	SM 3500 FE D	
480-199093-2	MW-8R	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 630606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-3	MW-9R	Total/NA	Water	SM 3500 FE D	
480-199093-4	MW-9D	Total/NA	Water	SM 3500 FE D	
480-199093-5	MW-20	Total/NA	Water	SM 3500 FE D	
480-199093-6	MW-20D	Total/NA	Water	SM 3500 FE D	
480-199093-7	MW-22R	Total/NA	Water	SM 3500 FE D	
480-199093-9	MW-24	Total/NA	Water	SM 3500 FE D	
480-199093-10	MW-21	Total/NA	Water	SM 3500 FE D	
480-199093-11	MW-23	Total/NA	Water	SM 3500 FE D	
480-199093-13	MW-23D	Total/NA	Water	SM 3500 FE D	
MB 480-630606/29	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-630606/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-630606/30	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-630606/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-199093-3 MS	MW-9R	Total/NA	Water	SM 3500 FE D	
480-199093-6 MS	MW-20D	Total/NA	Water	SM 3500 FE D	
480-199093-9 MS	MW-24	Total/NA	Water	SM 3500 FE D	
480-199093-1 DU	MW-7	Total/NA	Water	SM 3500 FE D	
480-199093-2 DU	MW-8R	Total/NA	Water	SM 3500 FE D	
480-199093-3 DU	MW-9R	Total/NA	Water	SM 3500 FE D	
480-199093-4 DU	MW-9D	Total/NA	Water	SM 3500 FE D	
480-199093-5 DU	MW-20	Total/NA	Water	SM 3500 FE D	
480-199093-6 DU	MW-20D	Total/NA	Water	SM 3500 FE D	
480-199093-7 DU	MW-22R	Total/NA	Water	SM 3500 FE D	
480-199093-9 DU	MW-24	Total/NA	Water	SM 3500 FE D	
480-199093-10 DU	MW-21	Total/NA	Water	SM 3500 FE D	
480-199093-11 DU	MW-23	Total/NA	Water	SM 3500 FE D	
480-199093-13 DU	MW-23D	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 631150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-2	MW-8R	Total/NA	Water	300.0	
480-199093-3	MW-9R	Total/NA	Water	300.0	
480-199093-4	MW-9D	Total/NA	Water	300.0	
480-199093-5	MW-20	Total/NA	Water	300.0	
480-199093-6	MW-20D	Total/NA	Water	300.0	
480-199093-7	MW-22R	Total/NA	Water	300.0	
480-199093-9	MW-24	Total/NA	Water	300.0	
480-199093-10	MW-21	Total/NA	Water	300.0	
480-199093-11	MW-23	Total/NA	Water	300.0	
480-199093-13	MW-23D	Total/NA	Water	300.0	
MB 480-631150/4	Method Blank	Total/NA	Water	300.0	
LCS 480-631150/5	Lab Control Sample	Total/NA	Water	300.0	
480-199093-6 MS	MW-20D	Total/NA	Water	300.0	
480-199093-6 MSD	MW-20D	Total/NA	Water	300.0	

Analysis Batch: 631400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199093-1	MW-7	Total/NA	Water	300.0	
MB 480-631400/4	Method Blank	Total/NA	Water	300.0	
LCS 480-631400/5	Lab Control Sample	Total/NA	Water	300.0	

Client Sample ID: MW-7

Lab Sample ID: 480-199093-1

Date Collected: 06/15/22 10:45

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	630923	06/22/22 00:58	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 15:52	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		11	630761	06/20/22 22:09	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	44	630927	06/21/22 16:08	DSC	TAL BUF
Total/NA	Analysis	300.0		50	631400	06/24/22 01:58	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-8R

Lab Sample ID: 480-199093-2

Date Collected: 06/15/22 10:00

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	630923	06/22/22 01:21	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 16:15	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	630761	06/20/22 22:28	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	630927	06/21/22 16:27	DSC	TAL BUF
Total/NA	Analysis	300.0		20	631150	06/22/22 16:45	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-9R

Lab Sample ID: 480-199093-3

Date Collected: 06/15/22 09:10

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630923	06/22/22 01:44	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 13:59	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	630761	06/20/22 22:47	DSC	TAL BUF
Total/NA	Analysis	300.0		5	631150	06/22/22 17:00	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-9D

Lab Sample ID: 480-199093-4

Date Collected: 06/15/22 11:45

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630923	06/22/22 02:08	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	4	631027	06/22/22 13:49	CR	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 16:37	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		11	630761	06/20/22 23:06	DSC	TAL BUF

Client Sample ID: MW-9D

Lab Sample ID: 480-199093-4

Date Collected: 06/15/22 11:45

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175	DL	44	630927	06/21/22 16:45	DSC	TAL BUF
Total/NA	Analysis	300.0		10	631150	06/22/22 17:14	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-20

Lab Sample ID: 480-199093-5

Date Collected: 06/15/22 14:15

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630923	06/22/22 02:31	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 16:58	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	630927	06/21/22 17:04	DSC	TAL BUF
Total/NA	Analysis	300.0		10	631150	06/22/22 17:28	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-20D

Lab Sample ID: 480-199093-6

Date Collected: 06/15/22 14:25

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630923	06/22/22 02:54	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 17:20	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	630761	06/20/22 23:43	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	630927	06/21/22 17:23	DSC	TAL BUF
Total/NA	Analysis	300.0		5	631150	06/22/22 17:42	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-22R

Lab Sample ID: 480-199093-7

Date Collected: 06/15/22 09:10

Matrix: Water

Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630923	06/22/22 03:18	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 17:42	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	630761	06/21/22 00:02	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	11	630927	06/21/22 17:42	DSC	TAL BUF
Total/NA	Analysis	300.0		5	631150	06/22/22 18:53	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-199093-8

Date Collected: 06/15/22 08:00
Date Received: 06/15/22 15:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	630923	06/22/22 03:41	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 18:05	PJQ	TAL BUF

Client Sample ID: MW-24

Lab Sample ID: 480-199093-9

Date Collected: 06/15/22 13:25
Date Received: 06/15/22 15:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	630923	06/22/22 04:04	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 18:28	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	630761	06/21/22 00:21	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	630927	06/21/22 18:01	DSC	TAL BUF
Total/NA	Analysis	300.0		20	631150	06/22/22 19:07	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-21

Lab Sample ID: 480-199093-10

Date Collected: 06/15/22 11:20
Date Received: 06/15/22 15:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	631027	06/22/22 14:12	CR	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 18:50	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		1	630927	06/21/22 18:20	DSC	TAL BUF
Total/NA	Analysis	300.0		10	631150	06/22/22 19:21	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Client Sample ID: MW-23

Lab Sample ID: 480-199093-11

Date Collected: 06/15/22 09:00
Date Received: 06/15/22 15:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630923	06/22/22 04:50	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 19:12	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		11	630761	06/21/22 00:59	DSC	TAL BUF
Total/NA	Analysis	300.0		5	631150	06/22/22 19:35	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-199093-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-199093-12

Date Collected: 06/15/22 11:45
Matrix: Water
Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630923	06/22/22 05:13	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 19:34	PJQ	TAL BUF

Client Sample ID: MW-23D
Lab Sample ID: 480-199093-13

Date Collected: 06/15/22 09:30
Matrix: Water
Date Received: 06/15/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	630923	06/22/22 05:37	CRL	TAL BUF
Total/NA	Prep	3510C			630432	06/17/22 08:32	MS	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	631033	06/22/22 19:56	PJQ	TAL BUF
Total/NA	Analysis	RSK-175		22	630761	06/21/22 01:18	DSC	TAL BUF
Total/NA	Analysis	300.0		5	631150	06/22/22 19:49	IMZ	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	630606	06/18/22 13:30	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-199093-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-199093-1
Project/Site: (Moog) Jamison Road Site- Elma, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: (Moog) Jamison Road Site- Elma, NY

Job ID: 480-199093-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-199093-1	MW-7	Water	06/15/22 10:45	06/15/22 15:30
480-199093-2	MW-8R	Water	06/15/22 10:00	06/15/22 15:30
480-199093-3	MW-9R	Water	06/15/22 09:10	06/15/22 15:30
480-199093-4	MW-9D	Water	06/15/22 11:45	06/15/22 15:30
480-199093-5	MW-20	Water	06/15/22 14:15	06/15/22 15:30
480-199093-6	MW-20D	Water	06/15/22 14:25	06/15/22 15:30
480-199093-7	MW-22R	Water	06/15/22 09:10	06/15/22 15:30
480-199093-8	BLIND DUP	Water	06/15/22 08:00	06/15/22 15:30
480-199093-9	MW-24	Water	06/15/22 13:25	06/15/22 15:30
480-199093-10	MW-21	Water	06/15/22 11:20	06/15/22 15:30
480-199093-11	MW-23	Water	06/15/22 09:00	06/15/22 15:30
480-199093-12	EQUIPMENT BLANK	Water	06/15/22 11:45	06/15/22 15:30
480-199093-13	MW-23D	Water	06/15/22 09:30	06/15/22 15:30

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: RLD CEH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-174424-35579.1
Client Contact: Mr. Rick Dubisz	Phone: 716-998 4334	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:	Analysis Requested		Job #:

Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: STD TAT	
City: Lackawanna	TAT Requested (days): STD	
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No	
Phone: 716-856-0599(Tel)	PO #: B0400-022-001 001/001	
Email: rdubisz@bm-tk.com	WO #:	
Project Name: (Moog) Jamison Road Site- Elma, NY	Project #: 48016204	
Site:	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Cl only	RSK_175 - Methane, Ethane, Ethene	8260C - (MOD) TCL list OLM04.2	3500_FE_D - Ferrous Iron	8270D_SIM_MS_ID - SIM List	Total Number of containers	ns/Note:
			Preservation Code:				N	A	A	N	N		
MW-7	6/15/22	1045	G	Water			✓	✓	✓	✓	✓		
MW-8R	6/15/22	1002		Water			✓	✓	✓	✓	✓		
MW-9R	6/15/22	0910		Water			✓	✓	✓	✓	✓		
MW-9D	6/15/22	1145		Water			✓	✓	✓	✓	✓		
MW-20	6/15/22	1415		Water			✓	✓	✓	✓	✓		
MW-20D	6/15/22	1425		Water			✓	✓	✓	✓	✓		
~~MW-21~~ MS/MSD (mw 9R)	6/15/22	0910		Water					✓		✓		
MW-22R ~~Rep~~	6/15/22	1130		Water			✓	✓	✓	✓	✓		
~~MW-23~~ BLIND DUP	6/15/22	0800		Water					✓		✓		
~~MW-23D~~				Water									
MW-24	6/15/22	1325	✓	Water			✓	✓	✓	✓	✓		

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6/15/22 1530				
2						
3					6/15/22 1530	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		3.6 4.2 A/ ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: RLD	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-174424-35579.2
Client Contact: Mr. Rick Dubisz	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days): STD TAT			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-856-0599(Tel)	PO #: B0400-022-001 001/001			
Email: rdubisz@bm-tk.com	WO #:			
Project Name: (Moog) Jamison Road Site- Elma, NY	Project #: 48016204			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Cl only	RSK_175 - Methane, Ethane, Ethene	8260C - (MOD) TCL list OLM04.2	3500_FE_D - Ferrous Iron	8270D_SIM_MS_ID - SIM List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	A	N	N		
~~BLIND DUP~~ MW-21	6/1/22	1120	G	Water			✓	✓	✓	✓	✓		
~~MS~~ MW-23	↓	0400	↓	Water			✓	✓	✓	✓	✓		
EQUIP BLANK		1145		Water					✓		✓		
~~MSD~~ MW-23D		0430	✓	Water			✓	✓	✓	✓	✓		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6/1/22 1330	BM/TK			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-199093-1

Login Number: 199093

List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BENCHMARK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	