June 7, 2022

Mr. Rakshak Iyengar, Project Manager
Division of Environmental Remediation, Bureau D
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7016

Re: Dynamic Systems Inc. – Semi-Annual Report, Spring 2022 Sampling Event

Dear Mr. Iyengar:

On behalf of Dynamic Systems, Inc. (DSI), and in accordance with Consent Order #A4-0772-07-11, JMT of New York, Inc. is pleased to submit this semi-annual report for the Spring 2022 sampling event. This report is being submitted electronically via e-mail.

From 2015 to 2017 and again in October 2021, JMT oversaw four injections of Regenesis' 3-D Microemulsion (3DMe) remediation technology into known contaminant zones at the DSI facility. The October 2021 Injection event also included Bio-Dechlor Inoculum Plus and Chemical Reducing ISCR solution. The purpose of the injections was to remediate TCE contamination present onsite due to a historic leak from a degreaser unit (removed in 2011) that was located inside the building.

Baseline groundwater samples were collected in May 2015, prior to injection, and revealed that reductive dechlorination of TCE and its daughter products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC) was naturally occurring in the subsurface. Ethene was also present in some of the samples, indicating that dechlorination had continued to the final, inert stage. 3DMe was chosen due to its ability to remediate TCE via reductive dechlorination pathways. It works in a staged-release manner that provides continued/long-term remediation, enhances the natural attenuation that was occurring onsite, and works well in low-hydraulic conductivity environments resulting from the presence of subsurface hardpan (dense silt and clay).

Groundwater monitoring was conducted quarterly from 2015 to 2018 and summarized in a series of quarterly reports. Analytical results from the sampling confirmed that reductive dechlorination of TCE and its daughter products was occurring onsite as a result of the 3DMe and ongoing natural attenuation. Results also indicated that complete degradation to the final stage of ethene is being achieved. As a result, NYSDEC agreed to JMT's request for a reduction in sampling frequency from quarterly to semi-annually in their November 14, 2018 letter.

Actions Completed – Spring 2022

On April 27, 2022, eight onsite monitoring wells (DSI-1, 2, 3, 4, 5, 6, MW-2 and MW-2N) were purged and sampled by both JMT and AECOM staff using low-flow sampling techniques. DSI-1, 3, 4, 6 and MW-2N were purged by AECOM during their per-and polyfluoroalkyl substances (PFAS) sampling event. VOCS and dissolved gas were then collected by JMT from each well after development and PFAS samples were taken. The remaining three monitoring wells (DSI-2, DSI-5 and MW-2) were purged and

sampled by JMT staff. See Figure 1 for all monitoring well locations. Groundwater levels were also measured at all wells to compute groundwater elevations and prepare a groundwater flow map (See Table 1 and Figure 2).

In addition to the routine semiannual sampling relating to the past TCE spill, DSI also completed supplemental groundwater sampling for PFAS compounds this Spring. That sampling was not required by the existing Consent Order for the site. DSI performed it on a voluntary basis, as requested by NYSDEC in their March 17, 2022, and April 15, 2022 correspondences. The PFAS sampling was completed by AECOM and the results were previously provided to NYSDEC in a May 27, 2022 letter report (attached). As concluded in that report, there are low levels of PFAS compounds in the shallow groundwater at some locations. However, there are no known sources of PFAS related to past or current operations at the DSI facility.

Results

All collected groundwater samples were analyzed for the volatile organics (VOC) 8260 TCL list and dissolved gases Only contaminants of concern (COCs), TCE, cis-1,2-DCE, VC, and trans-1,2-DCE, are discussed in this report. See Appendix A for the full laboratory analytical report from the Spring 2022 semi-annual sampling event. Refer to Table 2 and the graphs for trends at each monitoring well over time.

In April 2022, three monitoring wells (DSI-1, DSI-5, and DSI-6) had no COC exceedances. Two of these wells, DSI-5 and DSI-6, have not shown a COC exceedance in multiple sampling events. DSI-5 has not had a COC exceedance in over three years (seven sampling events). DSI-6 has not had a COC exceedance since June 2020 (four sampling events). DSI-1, which is immediately downgradient of the former TCE spill site, had three COC exceedances in Fall 2021 but none in April 2022.

As previously indicated, an additional injection event was conducted in October 2021, in the vicinity of wells DSI-2, 3 and 4. All three locations have seen improvement of the groundwater quality since that time. The most dramatic improvement was observed at DSI-2, particularly with respect to VC and Cis-1,2-DCE. In addition, the TCE concentrations remain below the NYSDEC ambient groundwater standard, achieving the standard of 5 ppb for the second consecutive post-injection event. Cis-1,2-DCE concentrations have dropped from a pre-injection value of 4,700 ppb to 620 ppb in November 2021 and 8.3 ppb in the recent April 2022 sampling event. VC concentrations also dropped significantly from a pre-injection value of 3,400 ppb to 1,200 ppb in November 2021 and 8.9 ppb in the most recent sampling event. The trans-1,2-DCE concentration was also below NYSDEC Ambient Groundwater standard in the most recent sampling round (0.9 ppb), compared to the prior sampling event (16 ppb).

While VC levels in DSI-4 remain greater than NYSDEC ambient groundwater standards, the well continues to exhibit signs of reductive dichlorination. TCE was below the ambient groundwater standard, (5 ppb) for the second consecutive post-injection sampling event, with a result of 1.4 ppb. This is a significant reduction compared to historical values of 390-440 ppb in 2015/2016. TCE breakdown has generally been accompanied by an increase in VC (a daughter product) and in ethene (the final TCE breakdown product). VC in DSI-4 consistently increased from June 2018 (0.98 ppb) to October 2020 (110 ppb). It has decreased since then and now has a reading of 19 ppb in this past sampling event. Cis-1,2-DCE decreased to 3.1 ppb in April 2022, achieving the groundwater standard. The pre-injection value was 22 ppb.

In well DSI-3, TCE increased from 8.4 ppb in November 2021 to 31 ppb in the April 2022 sampling event. Both are less than the pre-injection value of 83 ppb. Cis-1,2-DCE was generally consistent with the prior sampling event. The TCE breakdown product VC decreased in DSI-3 from 15 ppb (12 ppb, duplicate) in November 2021 to 7.4 ppb in April 2022.

Except for VC, all COCs have been below standards in MW-2 since June 2018 and in MW-2N since April 2019. In the April 2022 event, VC was slightly above the standard of 2 ppb, with concentrations of 6.4 ppb (MW-2) and 3.4 ppb (MW-2N). These concentrations are similar to the prior sampling event in Fall 2021.

Summary and Recommendations

The overall decreasing trends at the site in concentrations of TCE and its daughter products have shown that reductive dechlorination is ongoing since the first 3DMe injection. Subsequent injections have enhanced the ongoing remediation and monitoring data show that water quality continues to improve. Source area monitoring wells (DSI-1, MW-2, MW-2N) and monitoring wells DSI-5 and DSI-6 (downgradient of the TCE spill) have experienced nearly total recovery in the last 6 years. These two downgradient wells have not had COC exceedances since 2018 (DSI-5) or 2020 (DSI-6). As shown on Figure 2, the three most downgradient wells at the site are DSI-4, 6 and 7. Groundwater quality standards have been achieved at both DSI-6 and 7. Significant improvements have been observed at DSI-4 and TCE, CIS-1,2-DCE, and trans-1,2-DCE levels now meet the groundwater standards. While VC (19 ppb) remains over standards, the current concentration is substantially less then a prior maximum concentration of 110 ppb (October 2020). The groundwater flow direction at DSI-4 is to the southeast, towards a wetland area surrounding Newfoundland Creek. Although there are several homes about 2,000 ft. south of well DSI-4, near Snyders Corners Road, these homes would not be in a direct downgradient flow path from this well or the DSI facility. Based on the topographic setting of these homes (see Figure 3), it appears that groundwater near the homes flows northeastward towards Newfoundland Creek.

The next semi-annual sampling event for VOCs will be conducted in October 2022. No supplemental sampling for PFAS compounds is anticipated. If you have any questions do not hesitate to contact me at (518) 782-0882 or jciampa@jmt.com.

Sincerely,

JMT of New York, Inc.

John D. Ciampa, PG
Senior Associate

Attachments

cc w/ att.: D. Ferguson, DSI
D. Montuori, DSI
J. Privitera, Esq.
E. Hausamann, NYSDEC

JDC
G:\2011\11-S0124N-001 (E0111124) Dynamic Systems_TCE Spill\Reports\Semi Annual Reports\July 2022\July 2022 Semi Annual Text.docx

FIGURES

NY ROUTE 355

Former location of vapor degreaser

MW-2N

MW-2

MW-1

DSI-1

DSI-3

DSI-5

DSI-2

DSI-6

DSI-4

Ditch

DSI-7

MONITORING WELL

SURFACE WATER SAMPLE LOCATION

STORMWATER DRAINS

FENCE

TREELINE

NO.	DATE	RECORD OF WORK	DRN	CKD	APPR

PROJECT

PROJ. ENGR.:	FP
PROJ. NO.:	11124
PREPARED BY:	JCK
DRAFTED BY:	JCK
CHECKED BY:	FP
APPROVED BY:	
DATUM:	
CONTOUR INTERVAL:	

0 20 40

1"=40'

SITE PLAN
DYNAMIC SYSTEMS, INC.
POESTENKILL, NEW YORK

TOWN OF POESTENKILL — RENSSELAER CO.,NY

DATE: 09/15/2014 | SCALE: 1" = 40' | DWG: 11124.02 | FIGURE 1

Former location of vapor degreaser

MW-2N (454.1)

MW-1

MW-2 (454.1)

454

453

452

451

450

449

448

447

446

445

444

443

DSI-1 (452.4)

DSI-5 (451.8)

DSI-3 (450.8)

DSI-2 (450.5)

DSI-6 (449.9)

DSI-4 (442.3)

Ditch

DSI-7 (450.9)

Note: Groundwater measurements collected jointly by JMT and AECOM

442.3 GROUNDWATER ELEVATION

MONITORING WELL

STORMWATER DRAINS

FENCE

TREELINE

FLOW DIRECTION

NO.	DATE	RECORD OF WORK	DRN	CKD	APPR

PROJECT

PROJ. ENGR.:	JC
PROJ. NO.:	11124
PREPARED BY:	MG
DRAFTED BY:	MG
CHECKED BY:	YW
APPROVED BY:	
DATUM:	
CONTOUR INTERVAL:	0.5 ft

0 20 40

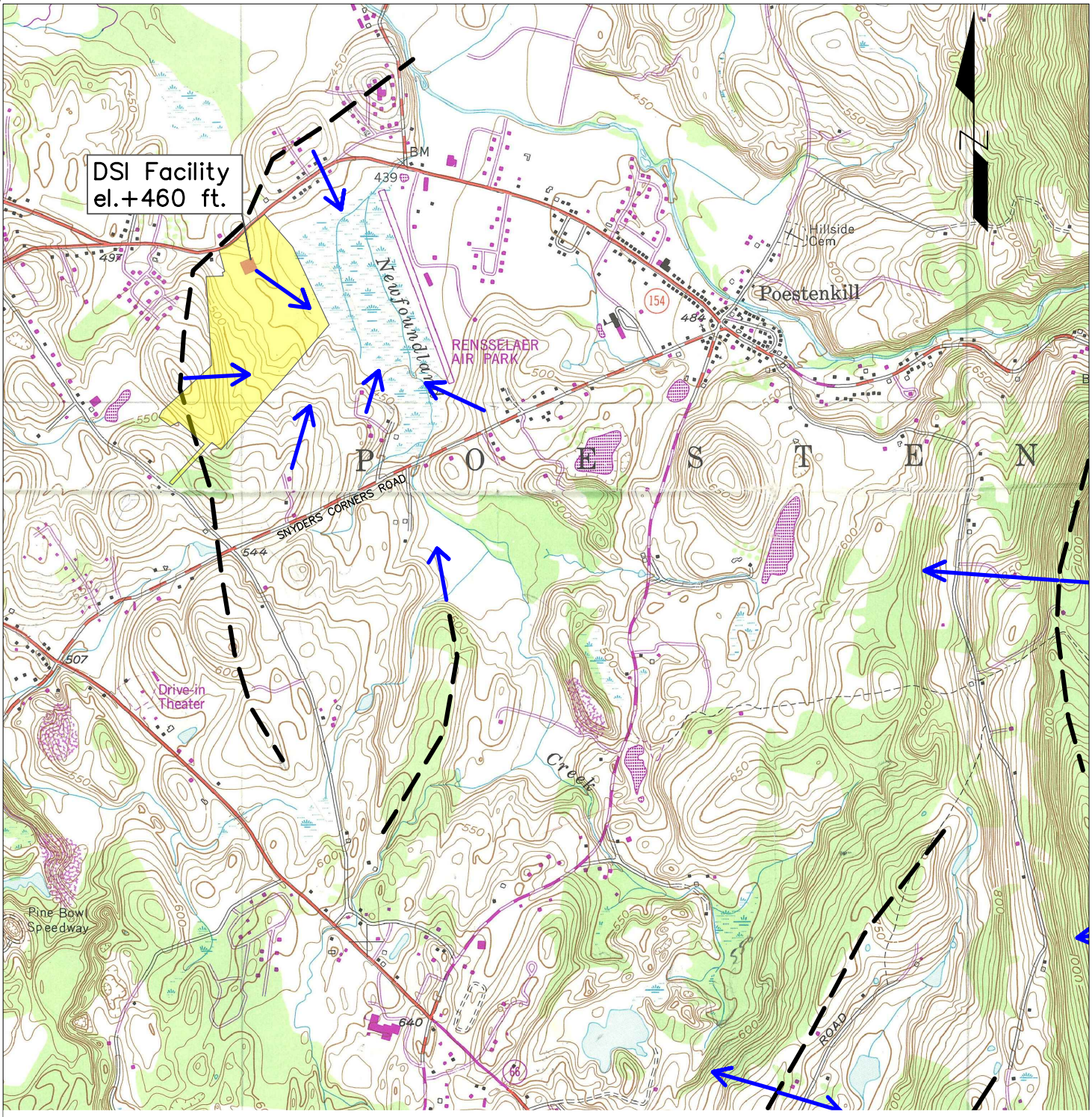
1"=40'

SPRING 2022 GROUNDWATER FLOW MAP
DYNAMIC SYSTEMS, INC.
POESTENKILL, NEW YORK

TOWN OF POESTENKILL RENSSELAER CO.,NY

19 British American Blvd.,Latham, New York 12110
P: (518) 782-0882 F: (518) 782-0973 www.jmt.com

DATE: 05/20/2022 | SCALE: 1" = 40' | DWG: 11124.03 | FIGURE 2



Legend

- TOPOGRAPHIC RIDGE LINE
- ANTICIPATED GROUNDWATER FLOW
- DSI PROPERTY

Note: Basemap from USGS Averill Park Quadrangle Map, 1980

0' 2,000' 4,000'

19 British American Blvd.,Latham, New York 12110
P: (518) 782-0882 F: (518) 782-0973 www.jmt.com

DSI REGIONAL TOPOGRAPHIC SETTING
DYNAMIC SYSTEMS INC

TOWN OF POESTENKILL RENSSELAER CO., NY

PROJ. #:	11-S0124N	DATE:	1/28/2022	SCALE:	1"=2000'	DWG. NO. --------	FIGURE	3

TABLES

Table 1 - Groundwater Elevations 4/27/22

WELL ID	GROUND ELEV.	STICK UP/DOWN	MEASURMENT ELEV.	4/27/2022 DTW (FT)	4/27/2022 GW ELV.
MW-2N	458.431	-0.375	458.056	3.990	454.066
MW-2	458.458	-0.333	458.125	4.010	454.115
DSI-4	444.026	-0.420	443.606	1.300	442.306
DSI-2	457.190	-0.542	456.648	6.150	450.498
DSI-5	456.497	-0.542	455.955	4.110	451.845
DSI-6	456.434	-0.250	456.184	6.300	449.884
DSI-1	457.355	-0.167	457.188	4.830	452.358
DSI-3	455.848	-0.417	455.431	4.620	450.811
DSI-7	453.012	2.708	455.720	4.800	450.920

Table 2
Historical Groundwater Results (ug/l)
Dynamic Systems, Inc.
Poestenkill, NY

VOCs by 8260	TOGS 1.1.1	DSI-1																	
		5/22/2015	9/3/2015	12/10/2015	4/12/2016	6/22/2016	12/6/2016	3/29/2017	6/27/2017	3/27/2018	6/27/2018	9/24/2018	4/24/2019	9/11/2019	9/11/2019 (DUP)	11/13/2019	2/12/2020	6/29/2020	10/15/2020	5/24/2021	11/22/2021
cis-1,2-Dichloroethene	5	20	98	41	2.5 U	2.8	3.2	2.5 U	2.5 U	2.5 U	1.2 J	5.4	12	33	35	58	2.5 U	26	3.4	2.5	35
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.8	2.5 U	2.5 U	2.5 U	--	2.5 U
Trichloroethene	5	110	1.5	5.1	0.5 U	0.48 J	0.46 J	13	0.49 J	0.2 J	0.94	1.4	7.5	47	50	190	0.46 J	96	2.0	6.0	5.5
Vinyl chloride	2	1.6	12	23	1 U	3.4	3	1 U	0.26 J	1 U	1.2	2.5	9.5	16	17	31	1 U	8.2	1.3	0.75 J	29
Dissolved Gases																					
Ethane	NS	4.57	--	12	--	8.81	--	0.50	--	0	--	--	11.1	--	--	--	--	2.73	--	1.45	--
Ethene	NS	0.585	--	13	--	2.69	--	0.50	--	0	--	--	1.59	--	--	--	--	0.824	--	0.501	--
Methane	NS	93.9	--	8520	--	12300	--	440	--	419	--	--	17200	--	--	--	--	2920	--	3180	--

VOCs by 8260	TOGS 1.1.1	DSI-1	
		4/27/2022	DUP1
cis-1,2-Dichloroethene	5	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U
Trichloroethene	5	0.46 J	0.65
Vinyl chloride	2	0.18 J	0.28 J
Dissolved Gases			
Ethane	NS	1.97	2.36
Ethene	NS	0.5 U	0.5 U
Methane	NS	1850	1850

VOCs by 8260	TOGS 1.1.1	DSI-2																
		5/26/2015	9/2/2015	12/10/2015	4/12/2016	6/22/2016	12/6/2016	3/30/2017	6/28/2017	3/27/2018	6/27/2018	9/24/2018	4/24/2019	9/11/2019	6/29/2020	10/15/2020	5/24/2021	11/22/2021	4/27/2022
cis-1,2-Dichloroethene	5	14000	19000	760	1.2 J	23	160	42	230	540	100	150	86	660	1700	1700	4700	620	8.3
trans-1,2-Dichloroethene	5	500 U	500 U	9.7 J	2.5 U	5.1	13	0.92 J	25 U	11 J	7	4.6 J	2.1 J	13	22 J	34	32 J	16	0.9 J
Trichloroethene	5	17000	2100	70	3.2	1.3	3.4	1.2	6.9	28	1.8	2.1 J	4.9	14	3.1 J	8.1	15 J	2.5 U	0.2 J
Vinyl chloride	2	3200	2200	450	1 U	26	150	230	790	670	620	410	220	510	1300	1200	3400	1200	8.9
Dissolved Gases																			
Ethane	NS	1.41	--	188	--	112	--	273	--	674	--	--	757	--	454	--	432	--	100
Ethene	NS	0.5 U	--	1790	--	623	--	434	--	774	--	--	539	--	1610	--	1790	--	44
Methane	NS	7.73	--	3000	--	9370	--	10200	--	15000	--	--	15800	--	16500	--	18400	--	--

VOCs by 8260	TOGS 1.1.1	DSI-3																		
		5/22/2015	9/2/2015	12/10/2015	4/12/2016	6/22/2016	12/6/2016	3/29/2017	6/27/2017	3/28/2018	6/27/2018	9/24/2018	4/24/2019	9/11/2019	6/29/2020	6/29/2020 (DUP)	10/15/2020	10/15/2020 (DUP)	5/24/2021	11/22/2021	DUP1
cis-1,2-Dichloroethene	5	36	49	48	31	38	33	9.3	35	31	77	100	62	55	37	37	44	48	26	23	18
trans-1,2-Dichloroethene	5	10 U	0.76 J	10 U	10 U	10 U	5 U	2.5 U	6.2 U	2.5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.71 J	--	2.5 U	2.5 U
Trichloroethene	5	210	260	250	180	190	200	62	180	160	150	150	99	120	76	81	96	110	83	8.4	4.1
Vinyl chloride	2	2.3 J	5	3.6 J	2.6 J	7.9	2.8	0.89 J	3.4	2.8	4.7	2.4	4.1	3.5	3.8	3.7	3.5	4.0	1.8	15	12
Dissolved Gases																					
Ethane	NS	1.41	--	0.543	--	0.784	--	0.852	--	1.84	--	--	2.4	--	6.98	7.12	--	--	4.72	--	--
Ethene	NS	<0.5	--	<0.5	--	1.25	--	0.751	--	0.915	--	--	0.537	--	0.522	0.548	--	--	3.97	--	--
Methane	NS	7.73	--	9.6	--	51	--	37.6	--	679	--	--	5300	--	2560	2520	--	--	995	--	--

VOCs by 8260	TOGS 1.1.1	DSI-3
		4/27/2022
cis-1,2-Dichloroethene	5	19
trans-1,2-Dichloroethene	5	2.5 U
Trichloroethene	5	31
Vinyl chloride	2	7.4
Dissolved Gases		
Ethane	NS	13.9
Ethene	NS	1.07
Methane	NS	5130

VOCs by 8260	TOGS 1.1.1	DSI-4																	
		5/26/2015	9/3/2015	12/11/2015	4/13/2016	6/23/2016	12/6/2016	3/30/2017	6/28/2017	3/28/2018	6/28/2018	9/25/2018	4/25/2019	9/11/2019	6/30/2020	10/16/2020	5/25/2021	11/22/2021	4/27/2022
cis-1,2-Dichloroethene	5	45	79	54	50	70	45	71	150	75	180	270	19	53	37	20	22	10	3.1
trans-1,2-Dichloroethene	5	6.2 U	6.2 U	6.2 U	5 U	25 U	10 U	2.5 U	6.2 U	2.5 U	6.2 U	6.2 U	2.5 U	2.5 U	2.5 U	2.5 U	--	5 U	2.5 U
Trichloroethene	5	240	440	270	230	390	220	110	220	62	120	68	5.7	19	19	8.2	16	2.3	1.4
Vinyl chloride	2	2.5 U	2.5 U	2.5 U	2 U	10 U	4 U	0.83 J	0.8 J	1.4	0.98 J	8.3	20	66	69	110	8.6	23	19
Dissolved Gases																			
Ethane	NS	<0.5 U	--	0.5 U	--	0.5	--	0.5	--	0.5 U	--	--	0.541	--	0.5 U	--	--	--	1.12
Ethene	NS	<0.5 U	--	0.5 U	--	0.5 U	--	0.5 U	--	0.5 U	--	--	0.5 U	--	4.77	--	1.26	--	1.45
Methane	NS	1.58	--	2.77	--	5.96	--	1.74	--	130	--	--	7030	--	2520	--	928	--	4960

VOCs by 8260	TOGS 1.1.1	DSI-5																	
		5/22/2015	9/2/2015	12/10/2015	4/13/2016	6/22/2016	12/6/2016	3/29/2017	6/27/2017	3/27/2018	6/27/2018	9/24/2018	4/24/2019	9/11/2019	6/29/2020	10/15/2020	5/24/2021	11/22/2021	4/27/2022
1,2-Dichloroethane	0.6	20 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	--	0.5 U	0.5 U
cis-1,2-Dichloroethene	5	590	450	1000	27	25	1.9 J	2.5 U	0.94 J	5 U	2.5 U	12	2.5 U	2.5 U	2.5 U	2.5 U	0.99 J	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	33 J	25 U	12 J	2.1 J	2.4 J	2.5 U	2.5 U	2.5 U	5 U	2.5 U	1.5 J	2.5 U	2.5 U	2.5 U	2.5 U	--	2.5 U	2.5 U
Trichloroethene	5	2600	63	7.6	1.8	1.4	0.6	19	0.66	1 U	0.2 J	1.7	0.55	0.18 J	0.38 J	0.5 U	0.6	0.5 U	0.5 U
Vinyl chloride	2	120	37	51	1 U	160	1 U	1 U	1 U	0.26 J	0.08 J	6.1	0.36 J	0.15 J	0.13 J	1.0 U	0.64 J	1.0 U	1 U
Dissolved Gases																			
Ethane	NS	94.2	--	23.7	--	7.67	--	0.578	--	5.67	--	--	0.5 U	--	0.5 U	--	1.85	--	0.5 U
Ethene	NS	6.97	--	5.2	--	81.2	--	0.5	--	0 U	--	--	0.864	--	0.502	--	0.574	--	0.5 U
Methane	NS	749	--	656	--	8810	--	1300	--	11600	--	--	8730	--	2330	--	7280	--	51.4

Table 2
Historical Groundwater Results (ug/l)
Dynamic Systems, Inc.
Poestenkill, NY

VOCs by 8260	TOGS 1.1.1	DSI-6																		
		5/22/2015	9/2/2015	12/10/2015	4/13/2016	6/22/2016	12/6/2016	3/30/2017	6/27/2017	3/28/2018	6/27/2018	9/24/2018	4/25/2019	9/11/2019	6/29/2020	10/15/2020	5/24/2021	DUP.	11/22/2021	4/27/2022
1,2-Dichloroethane	0.6	20 U	5 U	10 U	0.5 U	0.5 U	2.5 U	1.2 U	2 U	1.2 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	--	--	0.5 U	0.5 U
cis-1,2-Dichloroethene	5	**800**	**1200**	**1500**	**19**	**51**	**10** J	3.9 J	**43**	**230**	**17**	**12**	2.5 U	**7.5**	**7.7**	2.0 J	--	--	2.5 U	0.8 J
trans-1,2-Dichloroethene	5	**56** J	**15** J	**18** J	2.5 U	1.2 J	12 U	6.2 U	10 U	**13**	4.2	4.9	2.5 U	1.2 J	1 J	2.5 U	--	--	2.5 U	2.5 U
Trichloroethene	5	**3100**	**110**	**18**	**16**	**9.4**	**5.8**	2.4	**5.3**	**13**	2.8	2	0.34 J	3	4.1	0.34 J	0.61	0.47 J	0.5 U	0.5 U
Vinyl chloride	2	**170**	**250**	**440**	**4.8**	**80**	**57**	**31**	**330**	**130**	**13**	**3.5**	0.22 J	**2.9**	**4.3**	0.93 J	0.30 J	0.25 J	0.19 J	1.6
Dissolved Gases																				
Ethane	NS	71.9	--	62.8	--	7.33	--	4.15	--	18.5	--	--	1.75	--	2.53	--	5.86	5.09	--	34.3
Ethene	NS	6.34	--	38.5	--	8.99	--	11.7	--	75.6	--	--	0.5 U	--	0.708	--	--	--	--	10.1
Methane	NS	680	--	1870	--	5230	--	12900	--	17700	--	--	7180	--	13800	--	11600	11700	--	6430

VOCs by 8260	TOGS 1.1.1	DSI-7								
		5/22/2015	9/3/2015	12/11/2015	4/12/2016	6/23/2016	12/6/2016	3/30/2017	6/28/2017	3/27/2018
cis-1,2-Dichloroethene	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
trans-1,2-Dichloroethene	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trichloroethene	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Vinyl chloride	2	<1 U	<1 U	<1 U	<1 U	0.27 J	<1 U	<1 U	<1 U	<1 U
Dissolved Gases by GC										
Ethane	NS	<0.5	--	<0.5	--	<0.5	--	0.5	--	0
Ethene	NS	<0.5	--	<0.5	--	<0.5	--	0.5	--	0
Methane	NS	2.74	--	2.54	--	1020	--	108	--	24.3

VOCs by 8260	TOGS 1.1.1	MW-2																		
		5/22/2015	9/3/2015	12/11/2015	4/13/2016	6/23/2016	12/6/2016	3/29/2017	6/28/2017	3/28/2018	6/28/2018	9/25/2018	4/25/2019	9/11/2019	6/30/2020	10/16/2020	5/25/2021	11/22/2021	4/27/2022	
1,2-Dichloroethane	0.6	1.2 U	12 U	5 U	5 U	2.5 U	1 U	1.2 U	0.5 U	0.15 J	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	--	0.5 U	0.5 U	
cis-1,2-Dichloroethene	5	**42**	**170**	**150**	**110**	**34**	**37**	**28**	**21**	**62**	1.1 J	1.4 J	2.5 U	2.5 U	2.5 U	2.5 U	0.80 J	2.5 U	1.8 J	
trans-1,2-Dichloroethene	5	6.2 U	62 U	25 U	25 U	12 U	5 U	6.2 U	2.5 U	0.76 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	2.5 U	2.5 U	
Trichloroethene	5	**210**	**1600**	**600**	**680**	**180**	**160**	**160**	**130**	0.5	0.66	0.8	0.47 J	0.31 J	0.59	0.99	1.7	0.88	3.2	
Vinyl chloride	2	2.5 U	25 U	10 U	**5.8** J	**5.3**	**11**	**5.6**	**3.2**	**220**	**3.6**	**8.1**	**4.9**	**3**	1.5	**2.2**	**10**	**6.6**	**6.4**	
Dissolved Gases																				
Ethane	NS	0.705	--	<0.5	--	1.01	--	0.5	--	17.9	--	--	10.5	--	1.47	--	0.595	--	0.897	
Ethene	NS	<0.5	--	<0.5	--	0.603	--	0.5	--	30.6	--	--	1.19	--	0.5 U	--	1.78	--	0.979	
Methane	NS	<0.5	--	0.934	--	151	--	31.2	--	11700	--	--	5560	--	1840	--	542	--	904	

VOCs by 8260	TOGS 1.1.1	MW-2N																		
		5/26/2015	9/3/2015	12/11/2015	4/13/2016	6/23/2016	12/6/2016	3/30/2017	6/28/2017	3/28/2018	6/28/2018	9/25/2018	4/25/2019	9/11/2019	6/30/2020	10/16/2020	5/25/2021	11/22/2021	4/27/2022	
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U		0.5 U	0.5 U	--	0.5	U 0.5 U	
cis-1,2-Dichloroethene	5	**34**	**9.7**	**13**	**21**	**16**	**18**	**16**	**9.2**	**82**	**30**	**15**	3.4	2.6	0.88 J	1.3 J	1.2 J	1.6	J 1.2 J	
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	2.5	U 2.5 U	
Trichloroethene	5	**30**	**12**	**14**	**19**	**14**	**22**	**20**	2.5 U	**12**	**5.3**	4.1	1.6	0.7	0.37 J	0.49 J	0.49 J	0.64		0.62
Vinyl chloride	2	0.39 J	1 U	1 U	1 U	1 U	1 U	0.24 J	1 U	**36**	**20**	**5.4**	**4.3**	**3**	1.1	1.1	2.0	**3**		**3.4**
Dissolved Gases																				
Ethane	NS	0.5 U	--	0.5 U	--	0.5 U	--	0.5	--	9.62	--	--	0.5 U	--	0.5 U	--	0.659	--		1.54
Ethene	NS	0.5 U	--	0.708	--	0.5 U	--	0.5	--	1.44	--	--	0.547	--	0.5 U	--	--	--		0.625
Methane	NS	1.95	--	131	--	0.966	--	7.43	--	5250	--	--	10800	--	1810	--	6670	--		4090

Notes:

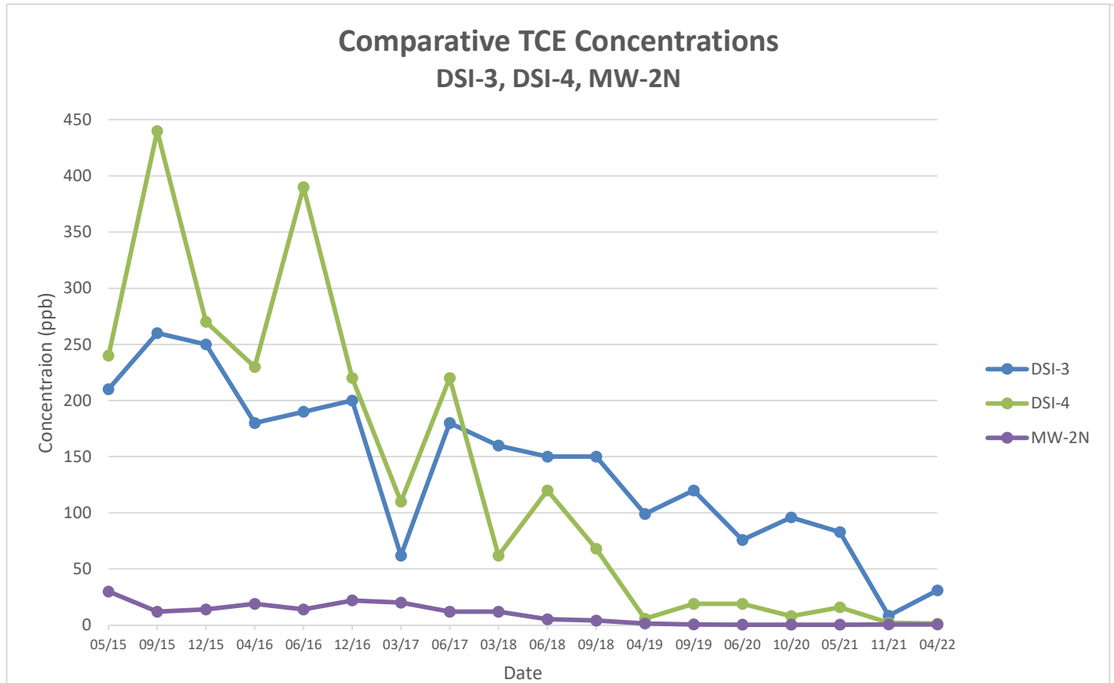
1. Samples collected by JMT and submitted to Alpha Analytical for analysis.
2. **Bold Red** = Exceeds T.O.G.S 1.1.1. Ambient Groundwater Quality
3. **0.457 U:** Analyte was not detected. The number preceding the 'U' is the associated reported detection limit.
4. All results in ug/l.

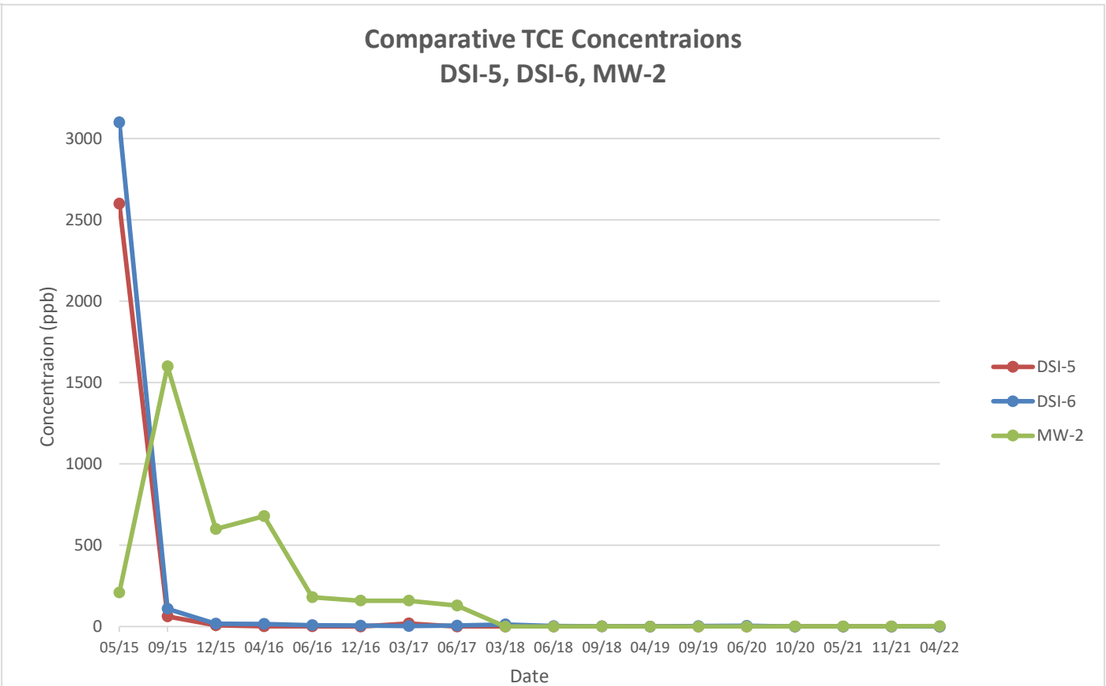
Qualifiers:

J: Compound at an estimated concentration

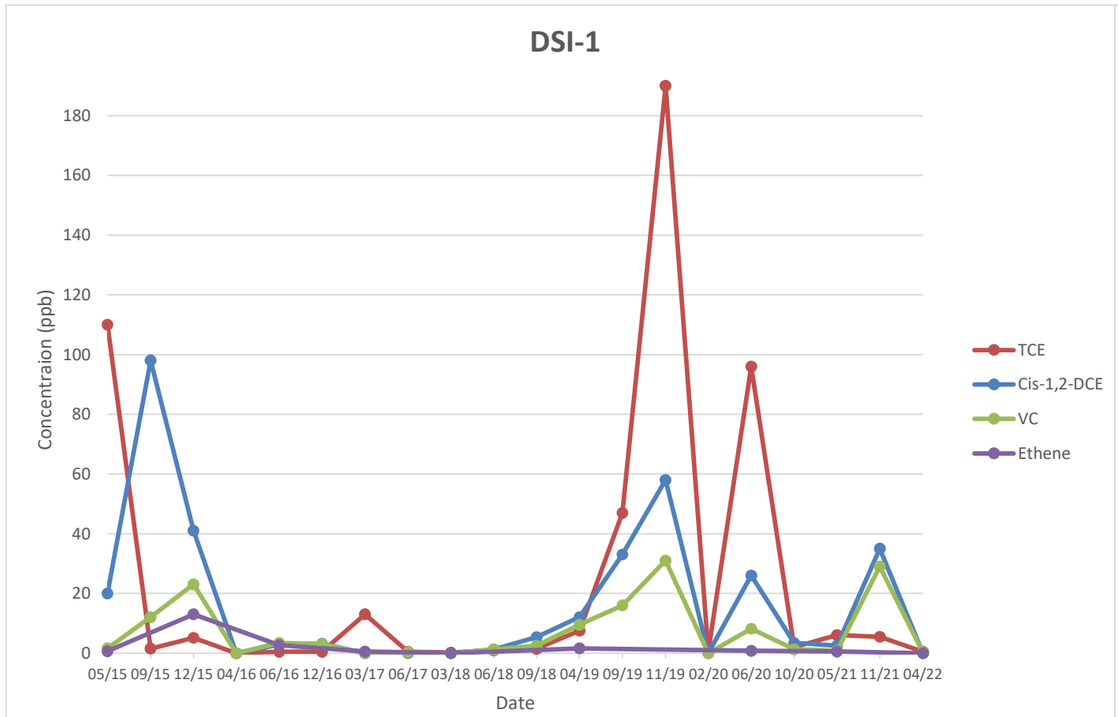
GRAPHS

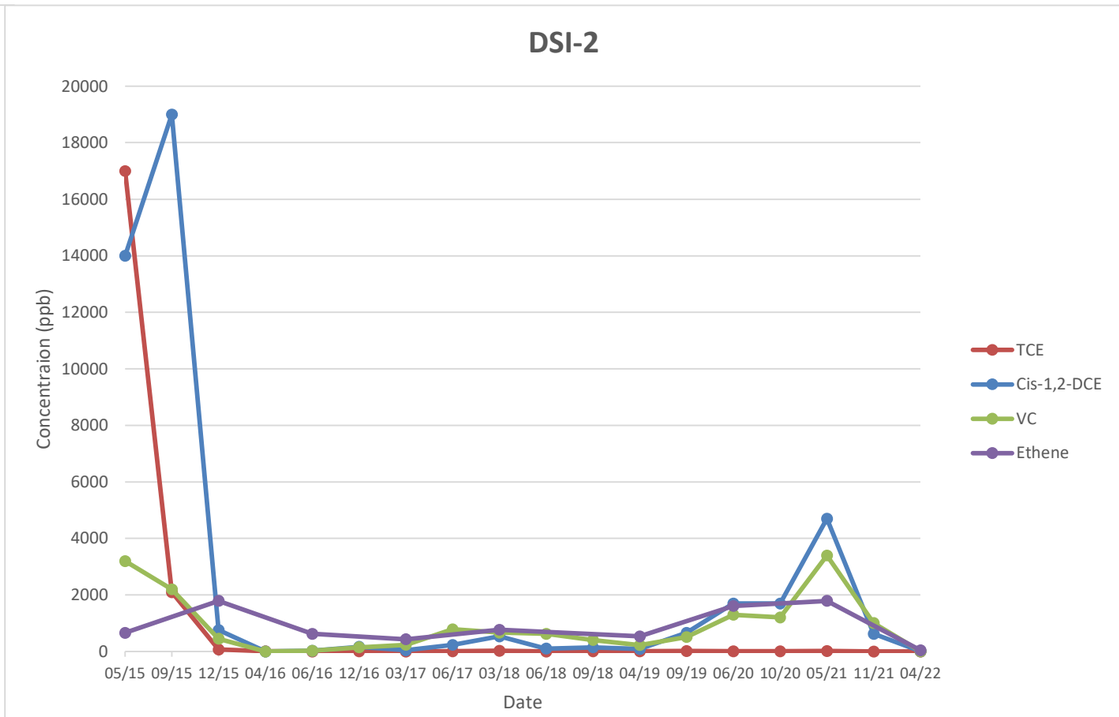
Historical Groundwater Graphs
Dynamic Systems, Inc.
Poestenkill, NY



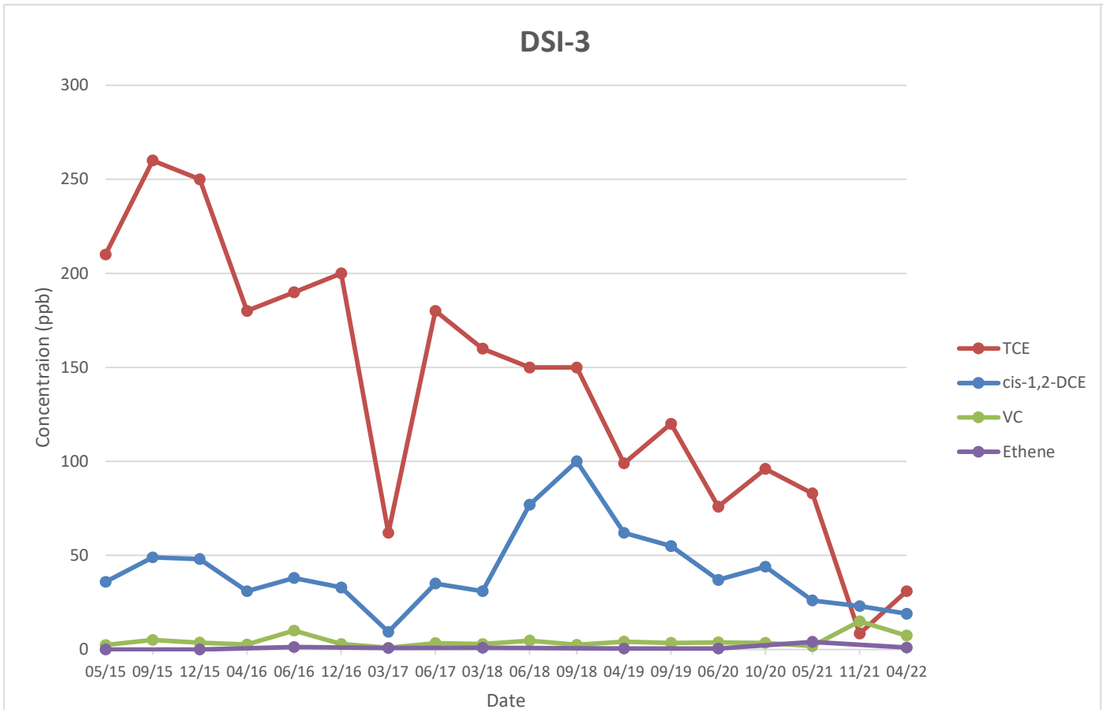


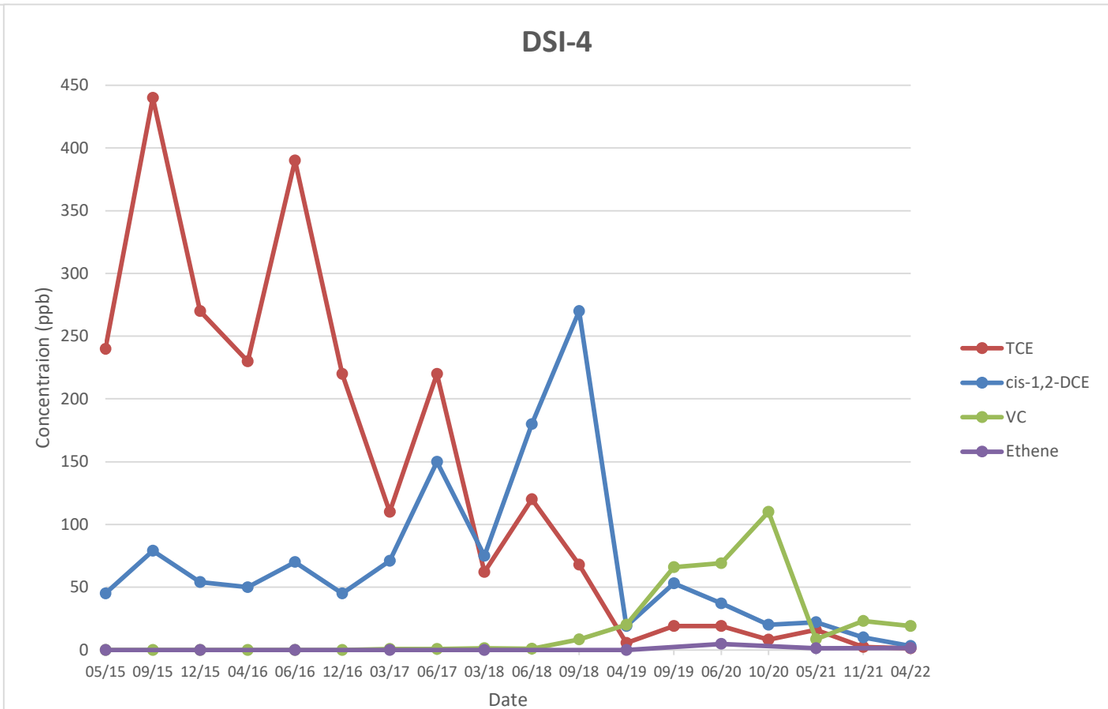
Historical Groundwater Graphs
Dynamic Systems, Inc.
Poestenkill, NY



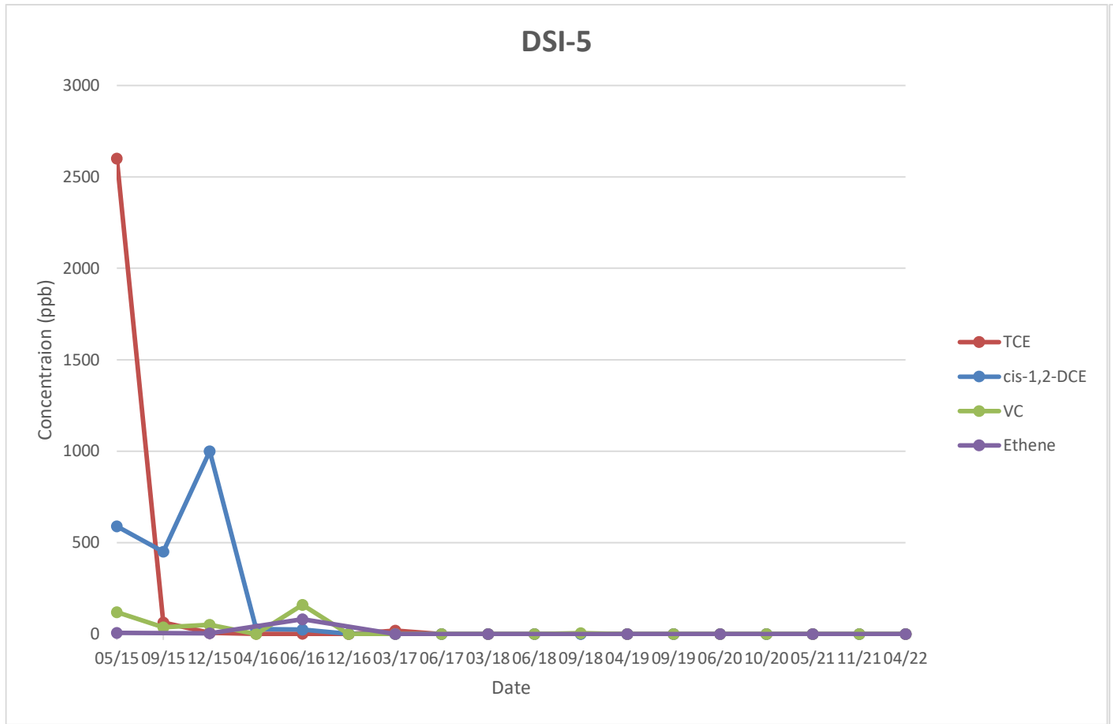


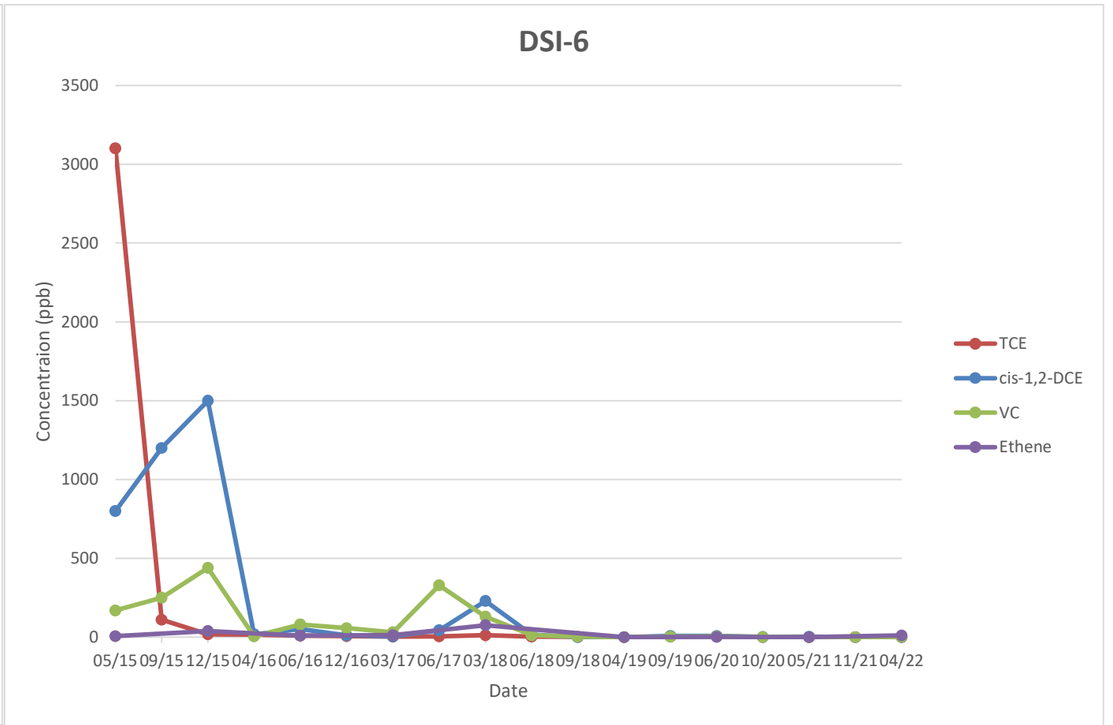
Historical Groundwater Graphs
Dynamic Systems, Inc.
Poestenkill, NY



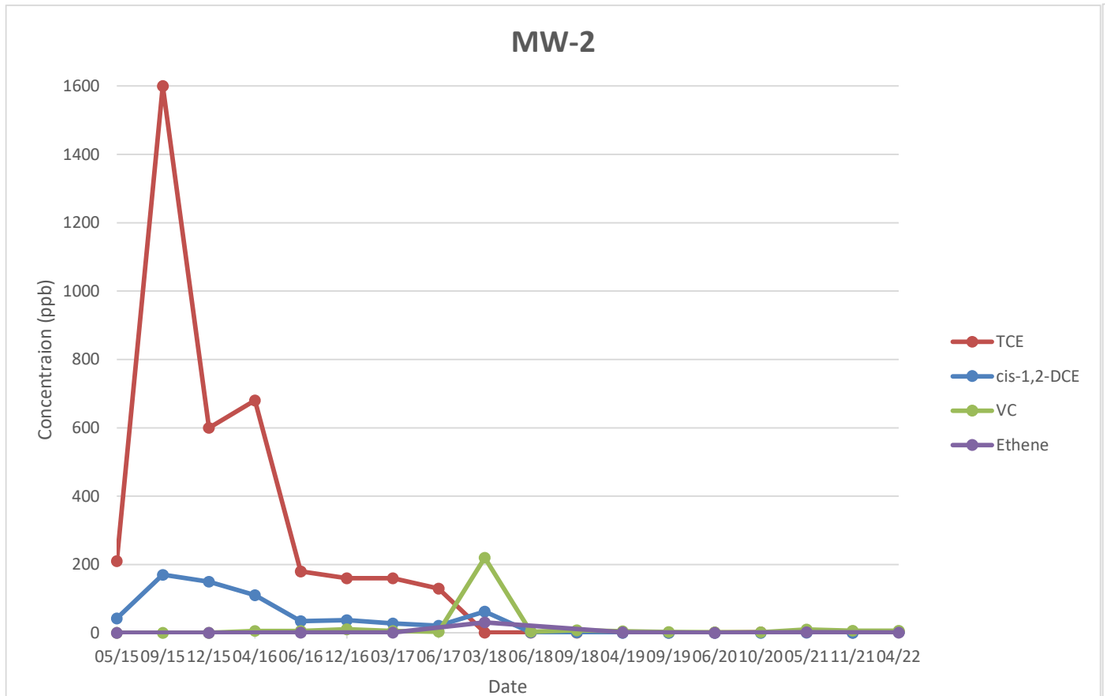


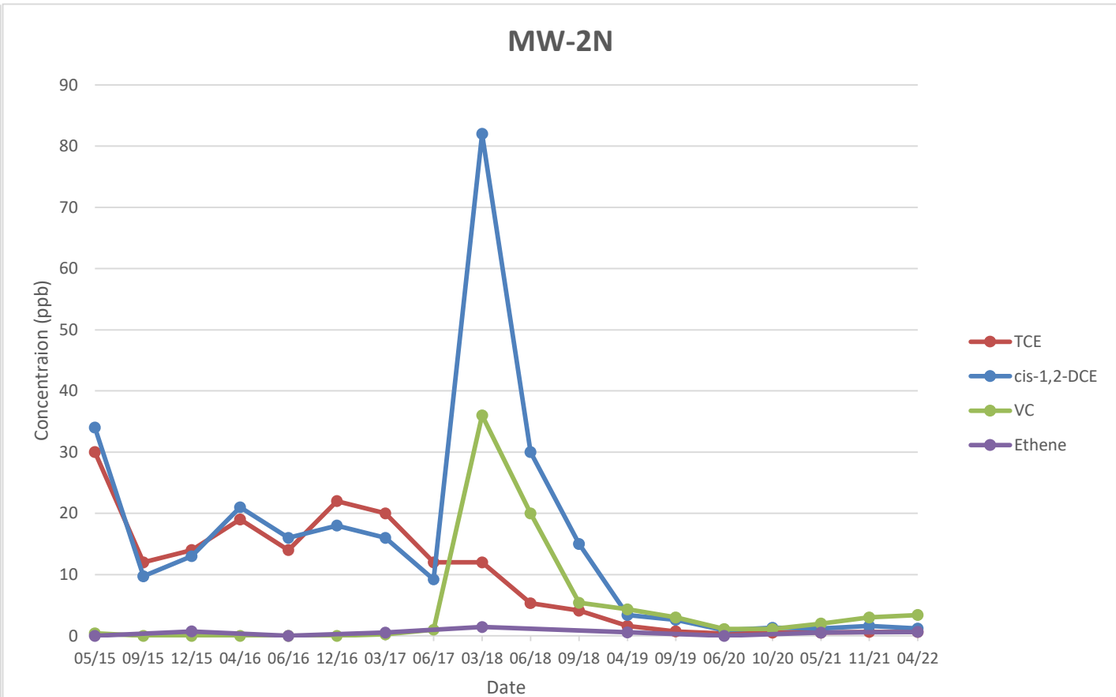
Historical Groundwater Graphs
Dynamic Systems, Inc.
Poestenkill, NY





Historical Groundwater Graphs
Dynamic Systems, Inc.
Poestenkill, NY





APPENDIX A

ANALYTICAL REPORT

Lab Number:	L2222133
Client:	JMT, Inc. 19 British American Blvd. Latham, NY 12110
ATTN:	John Ciampa
Phone:	(518) 782-0882
Project Name:	DSI
Project Number:	11-S0124N-001
Report Date:	05/11/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2222133-01	DSI-1	WATER	POESTENKILL, NY	04/27/22 13:10	04/27/22
L2222133-02	DSI-2	WATER	POESTENKILL, NY	04/27/22 14:00	04/27/22
L2222133-03	DSI-3	WATER	POESTENKILL, NY	04/27/22 14:30	04/27/22
L2222133-04	DSI-4	WATER	POESTENKILL, NY	04/27/22 15:00	04/27/22
L2222133-05	DSI-5	WATER	POESTENKILL, NY	04/27/22 11:15	04/27/22
L2222133-06	DSI-6	WATER	POESTENKILL, NY	04/27/22 14:25	04/27/22
L2222133-07	DUPLICATE	WATER	POESTENKILL, NY	04/27/22 12:00	04/27/22
L2222133-08	MW-2N	WATER	POESTENKILL, NY	04/27/22 12:30	04/27/22
L2222133-09	MW-2	WATER	POESTENKILL, NY	04/27/22 12:35	04/27/22
L2222133-10	TRIP BLANK	WATER	POESTENKILL, NY	04/27/22 00:00	04/27/22

Project Name:	DSI	**Lab Number:**	L2222133
Project Number:	11-S0124N-001	**Report Date:**	05/11/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	DSI	**Lab Number:**	L2222133
Project Number:	11-S0124N-001	**Report Date:**	05/11/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Dissolved Gases

L2222133-02D and -10: The sample was collected in pre-preserved vials; however, the pH of the sample was determined to be greater than two.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 05/11/22

ORGANICS

VOLATILES

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-01
Client ID: DSI-1
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 13:10
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.18	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.46	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-01 Date Collected: 04/27/22 13:10

Client ID: DSI-1 Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-01
Client ID: DSI-1
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 13:10
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/05/22 17:34
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	1850		ug/l	2.00	2.00	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	1.97		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-02
Client ID: DSI-2
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 14:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	8.9		ug/l	1.0	0.07	1
Chloroethane	2.1	J	ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.90	J	ug/l	2.5	0.70	1
Trichloroethene	0.20	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-02 Date Collected: 04/27/22 14:00

Client ID: DSI-2 Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	8.3		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	18		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	8.7		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-02
Client ID: DSI-2
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 14:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/05/22 17:52
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	22600	E	ug/l	2.00	2.00	1	A
Ethene	44.0		ug/l	0.500	0.500	1	A
Ethane	100		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-02 D
Client ID: DSI-2
Sample Location: POESTENKILL, NY

Date Collected: 04/27/22 14:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/06/22 15:34
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16000		ug/l	4.00	4.00	2	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-03
Client ID: DSI-3
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 14:30
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 21:15
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	7.4		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	31		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-03 Date Collected: 04/27/22 14:30

Client ID: DSI-3 Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	19		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-03
Client ID: DSI-3
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 14:30
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/05/22 18:10
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	5130		ug/l	2.00	2.00	1	A
Ethene	1.07		ug/l	0.500	0.500	1	A
Ethane	13.9		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-04
Client ID: DSI-4
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 15:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 21:37
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.17	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	19		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-04 Date Collected: 04/27/22 15:00

Client ID: DSI-4 Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.1		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	100		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	64		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	11		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	103		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-04
Client ID: DSI-4
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 15:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/05/22 18:50
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	4960		ug/l	2.00	2.00	1	A
Ethene	1.45		ug/l	0.500	0.500	1	A
Ethane	1.12		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-05
Client ID: DSI-5
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 11:15
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/11/22 08:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-05 Date Collected: 04/27/22 11:15

Client ID: DSI-5 Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-05
Client ID: DSI-5
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 11:15
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/05/22 13:00
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	51.4		ug/l	2.00	2.00	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-06
Client ID: DSI-6
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 14:25
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 21:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	1.6		ug/l	1.0	0.07	1
Chloroethane	1.0	J	ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-06 Date Collected: 04/27/22 14:25

Client ID: DSI-6 Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.80	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-06
Client ID: DSI-6
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 14:25
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/05/22 19:13
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	6430		ug/l	2.00	2.00	1	A
Ethene	10.1		ug/l	0.500	0.500	1	A
Ethane	34.3		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-07
Client ID: DUPLICATE
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 12:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 22:20
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.28	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.65		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-07 Date Collected: 04/27/22 12:00

Client ID: DUPLICATE Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.3	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-07
Client ID: DUPLICATE
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 12:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/06/22 14:38
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	1850		ug/l	2.00	2.00	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	2.36		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-08
Client ID: MW-2N
Sample Location: POESTENKILL, NY

Date Collected: 04/27/22 12:30
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 22:41
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.4		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.62		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-08 Date Collected: 04/27/22 12:30

Client ID: MW-2N Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.2	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-08
Client ID: MW-2N
Sample Location: POESTENKILL, NY

Date Collected: 04/27/22 12:30
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/06/22 14:56
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	4090		ug/l	2.00	2.00	1	A
Ethene	0.625		ug/l	0.500	0.500	1	A
Ethane	1.54		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-09
Client ID: MW-2
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 12:35
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 23:02
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	6.4		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	3.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-09 Date Collected: 04/27/22 12:35

Client ID: MW-2 Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-09
Client ID: MW-2
Sample Location: POESTENKILL, NY

Date Collected: 04/27/22 12:35
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/06/22 15:14
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	904		ug/l	2.00	2.00	1	A
Ethene	0.979		ug/l	0.500	0.500	1	A
Ethane	0.897		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-10
Client ID: TRIP BLANK
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 00:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/22 23:24
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-10 Date Collected: 04/27/22 00:00

Client ID: TRIP BLANK Date Received: 04/27/22

Sample Location: POESTENKILL, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

SAMPLE RESULTS

Lab ID: L2222133-10
Client ID: TRIP BLANK
Sample Location: POESTENKILL, NY
Date Collected: 04/27/22 00:00
Date Received: 04/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 05/06/22 12:52
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	ND		ug/l	2.00	2.00	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 05/05/22 10:38
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-06 Batch: WG1634946-3						
Methane	ND		ug/l	2.00	2.00	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 05/06/22 10:18
Analyst: BB

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 02,07-10 Batch: WG1635455-3						
Methane	ND		ug/l	2.00	2.00	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:11
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-10 Batch: WG1637025-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:11
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-10 Batch: WG1637025-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:11
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-10 Batch: WG1637025-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1637121-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: DSI **Lab Number:** L2222133

Project Number: 11-S0124N-001 **Report Date:** 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1637121-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: DSI
Project Number: 11-S0124N-001
Lab Number: L2222133
Report Date: 05/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1637121-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-06 Batch: WG1634946-2									
Methane	107		-		80-120	-		25	A
Ethene	102		-		80-120	-		25	A
Ethane	99		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 02,07-10 Batch: WG1635455-2									
Methane	107		-		80-120	-		25	A
Ethene	101		-		80-120	-		25	A
Ethane	100		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-10 Batch: WG1637025-3 WG1637025-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		120		70-130	9		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		110		75-130	10		20
Trichlorofluoromethane	95		100		62-150	5		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	91		94		70-130	3		20
cis-1,3-Dichloropropene	97		100		70-130	3		20
Bromoform	95		100		54-136	5		20
1,1,2,2-Tetrachloroethane	110		120		67-130	9		20
Benzene	100		110		70-130	10		20
Toluene	110		110		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	72		76		64-130	5		20
Bromomethane	**23**	Q	**28**	Q	39-139	20		20
Vinyl chloride	81		84		55-140	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-10 Batch: WG1637025-3 WG1637025-4								
Chloroethane	76		77		55-138	1		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		110		70-130	10		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	91		100		63-130	9		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	**35**	Q	38		36-147	8		20
Acetone	**150**	Q	**170**	Q	58-148	13		20
Carbon disulfide	93		95		51-130	2		20
2-Butanone	120		**140**	Q	63-138	15		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	130		**140**	Q	57-130	7		20
Bromochloromethane	100		110		70-130	10		20
1,2-Dibromoethane	99		110		70-130	11		20
1,2-Dibromo-3-chloropropane	100		120		41-144	18		20
Isopropylbenzene	100		110		70-130	10		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-10 Batch: WG1637025-3 WG1637025-4								
1,2,4-Trichlorobenzene	98		110		70-130	12		20
Methyl Acetate	120		130		70-130	8		20
Cyclohexane	120		120		70-130	0		20
1,4-Dioxane	98		114		56-162	15		20
Freon-113	110		100		70-130	10		20
Methyl cyclohexane	99		110		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	96		94		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1637121-3 WG1637121-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	88		91		63-130	3		20
1,1,2-Trichloroethane	84		91		70-130	8		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	98		98		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	99		98		67-130	1		20
trans-1,3-Dichloropropene	86		90		70-130	5		20
cis-1,3-Dichloropropene	95		97		70-130	2		20
Bromoform	80		85		54-136	6		20
1,1,2,2-Tetrachloroethane	84		91		67-130	8		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	120		110		64-130	9		20
Bromomethane	130		130		39-139	0		20
Vinyl chloride	120		110		55-140	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1637121-3 WG1637121-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	77		86		63-130	11		20
p/m-Xylene	115		110		70-130	4		20
o-Xylene	110		105		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	115		115		70-130	0		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	77		84		58-148	9		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	71		71		63-138	0		20
4-Methyl-2-pentanone	65		74		59-130	13		20
2-Hexanone	64		72		57-130	12		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	86		90		70-130	5		20
1,2-Dibromo-3-chloropropane	79		86		41-144	8		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	93		96		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1637121-3 WG1637121-4								
1,2,4-Trichlorobenzene	95		98		70-130	3		20
Methyl Acetate	79		82		70-130	4		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	74		76		56-162	3		20
Freon-113	120		110		70-130	9		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	101		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Dissolved Gases by GC - Mansfield Lab	Associated sample(s): 01-06	QC Batch ID: WG1634946-4	WG1634946-5	QC Sample: L2222133-05	Client ID: DSI-5								
Methane	51.4	54.6	114	115		109	105		80-120	4		25	A
Ethene	ND	95.5	102	107		95.0	100		80-120	7		25	A
Ethane	ND	102	106	104		98.5	96		80-120	7		25	A

Matrix Spike Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by GC/MS - Westborough Lab	Associated sample(s): 05	QC Batch ID: WG1637121-6	WG1637121-7	QC Sample: L2222133-05	Client ID: DSI-5							
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	ND	10	12	120		11	110		70-130	9		20
Chloroform	ND	10	11	110		11	110		70-130	0		20
Carbon tetrachloride	ND	10	12	120		12	120		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		10	100		70-130	10		20
Dibromochloromethane	ND	10	9.3	93		9.1	91		63-130	2		20
1,1,2-Trichloroethane	ND	10	9.3	93		9.1	91		70-130	2		20
Tetrachloroethene	ND	10	12	120		11	110		70-130	9		20
Chlorobenzene	ND	10	11	110		10	100		75-130	10		20
Trichlorofluoromethane	ND	10	13	130		12	120		62-150	8		20
1,2-Dichloroethane	ND	10	10	100		9.9	99		70-130	1		20
1,1,1-Trichloroethane	ND	10	12	120		11	110		67-130	9		20
Bromodichloromethane	ND	10	10	100		9.8	98		67-130	2		20
trans-1,3-Dichloropropene	ND	10	9.2	92		9.1	91		70-130	1		20
cis-1,3-Dichloropropene	ND	10	10	100		9.6	96		70-130	4		20
Bromoform	ND	10	8.3	83		8.4	84		54-136	1		20
1,1,2,2-Tetrachloroethane	ND	10	9.0	90		8.8	88		67-130	2		20
Benzene	ND	10	12	120		11	110		70-130	9		20
Toluene	ND	10	11	110		11	110		70-130	0		20
Ethylbenzene	ND	10	12	120		11	110		70-130	9		20
Chloromethane	ND	10	12	120		12	120		64-130	0		20
Bromomethane	ND	10	14	**140**	Q	13	130		39-139	7		20
Vinyl chloride	ND	10	13	130		12	120		55-140	8		20
Chloroethane	ND	10	13	130		12	120		55-138	8		20

Matrix Spike Analysis

Batch Quality Control

Project Name: DSI

Project Number: 11-S0124N-001

Lab Number: L2222133

Report Date: 05/11/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by GC/MS - Westborough Lab	Associated sample(s): 05	QC Batch ID: WG1637121-6	WG1637121-7	QC Sample: L2222133-05	Client ID: DSI-5							
1,1-Dichloroethene	ND	10	13	130		12	120		61-145	8		20
trans-1,2-Dichloroethene	ND	10	12	120		11	110		70-130	9		20
Trichloroethene	ND	10	11	110		11	110		70-130	0		20
1,2-Dichlorobenzene	ND	10	11	110		10	100		70-130	10		20
1,3-Dichlorobenzene	ND	10	11	110		10	100		70-130	10		20
1,4-Dichlorobenzene	ND	10	11	110		10	100		70-130	10		20
Methyl tert butyl ether	ND	10	8.5	85		8.2	82		63-130	4		20
p/m-Xylene	ND	20	24	120		23	115		70-130	4		20
o-Xylene	ND	20	23	115		22	110		70-130	4		20
cis-1,2-Dichloroethene	ND	10	12	120		11	110		70-130	9		20
Styrene	ND	20	24	120		23	115		70-130	4		20
Dichlorodifluoromethane	ND	10	13	130		12	120		36-147	8		20
Acetone	1.7J	10	9.4	94		8.9	89		58-148	5		20
Carbon disulfide	ND	10	13	130		12	120		51-130	8		20
2-Butanone	ND	10	6.8	68		7.4	74		63-138	8		20
4-Methyl-2-pentanone	ND	10	7.0	70		7.6	76		59-130	8		20
2-Hexanone	ND	10	7.1	71		7.5	75		57-130	5		20
Bromochloromethane	ND	10	11	110		10	100		70-130	10		20
1,2-Dibromoethane	ND	10	9.0	90		8.7	87		70-130	3		20
1,2-Dibromo-3-chloropropane	ND	10	8.5	85		8.1	81		41-144	5		20
Isopropylbenzene	ND	10	12	120		11	110		70-130	9		20
1,2,3-Trichlorobenzene	ND	10	9.9	99		9.3	93		70-130	6		20
1,2,4-Trichlorobenzene	ND	10	10	100		9.4	94		70-130	6		20
Methyl Acetate	ND	10	8.3	83		8.8	88		70-130	6		20

Matrix Spike Analysis

Batch Quality Control

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab	Associated sample(s): 05	QC Batch ID: WG1637121-6	WG1637121-7	QC Sample: L2222133-05	Client ID: DSI-5							
Cyclohexane	ND	10	12	120		12	120		70-130	0		20
1,4-Dioxane	ND	500	390	78		420	84		56-162	7		20
Freon-113	ND	10	13	130		12	120		70-130	8		20
Methyl cyclohexane	ND	10	12	120		11	110		70-130	9		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		96		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	100		99		70-130
Toluene-d8	101		101		70-130

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222133-01A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-01B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-01C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-01D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-01E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-02A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-02B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-02C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-02D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-02E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-03A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-03B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-03C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-03D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-03E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-04A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-04B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-04C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-04D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-04E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-05A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05A1	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05A2	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222133-05B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05B1	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05B2	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05C1	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05C2	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-05D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-05D1	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-05D2	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-05E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-05E1	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-05E2	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-06A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-06B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-06C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-06D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-06E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-07A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-07B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-07C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-07D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-07E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-08A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-08B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-08C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-08D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-08E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-09A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: DSI
Project Number: 11-S0124N-001

Lab Number: L2222133
Report Date: 05/11/22

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2222133-09B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-09C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-09D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-09E	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-10A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-10B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2222133-10C	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)
L2222133-10D	20ml Vial HCl preserved	A	NA		4.7	Y	Absent		DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name:	DSI	**Lab Number:**	L2222133
Project Number:	11-S0124N-001	**Report Date:**	05/11/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	DSI	**Lab Number:**	L2222133
Project Number:	11-S0124N-001	**Report Date:**	05/11/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	DSI	**Lab Number:**	L2222133
Project Number:	11-S0124N-001	**Report Date:**	05/11/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	DSI	**Lab Number:**	L2222133
Project Number:	11-S0124N-001	**Report Date:**	05/11/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 4/28/22

ALPHA Job #: L2222133

Client Information
Client: JMT of New York, Inc.
Address: 19 British American Blvd. Latham, NY 12110
Phone: (518) 782 0882
Fax:
Email: jciampa@JMT.com

Project Information
Project Name: DSI
Project Location: Peekskill, NY
Project #: 11-50124N-001
(Use Project name as Project #) ☐
Project Manager: John Ciampa
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL 8260	Diss. Gas	Sample Specific Comments	Total Bottle
22133 -01	DSI-1	4/27/22	1310	G.W.	MG	X	X		5
-02	DSI-2		1400		MG	X	X		5
-03	DSI-3		1430		MG	X	X		5
-04	DSI-4		1500		MG	X	X		5
-05	DSI-5		1015		MG	X	X		5
-05	DSI-5 MS		1115		MG	X	X		5
-05	DSI-5 MSD		1115		MG	X	X		5
-06	DSI-6		1425		MG	X	X		5
-07	Duplicate		12:00		MG	X	X		5
-08	MW-2N		1230		MG	X	X		5
	Container Type					V	V		
	Preservative					B	B		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/27/22 440pm	AMC	4-27-22 1640
	4-27-22 1650		4/28/22 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 4/28/22

ALPHA Job #: L2222133

Client Information
Client: JMT of New York, Inc
Address: 19 British American Blvd.
Latham, NY 12110
Phone: (518) 782-0882
Fax:
Email: jcramps@JMT.com

Project Information
Project Name: DSI
Project Location: Poestenkill, NY
Project #: 11-50124N-001
(Use Project name as Project #) ☐
Project Manager: John Cramps
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NITL 8260	Diss. Gas							Total Bottle
22133-09	MW-2	4/27/22	1235	G.W.	MG	x	x							
-10	Trip Blank	↓	—			x	x							

Container Type: V V
Preservative: B B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/27/22 440pm	AAL	4-27-22 1640
	4-27-22 1650		4/28/22 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ATTACHMENTS

AECOM
40 British American Boulevard
Latham, NY 12110
aecom.com

Project name:
Dynamic Systems, Inc.

Project ref:
Site No. 442040

To:
NYSDEC, Remedial Bureau D
Attn: Rakshak Iyengar
625 Broadway, 12th Floor
Albany, NY 12233
(Transmitted via Email)

From:
John Santacroce

Date:
May 27, 2022

Memo

Subject: DSI Poestenkill, April 2022 PFAS Groundwater Sampling Results

Introduction

Dynamic Systems Inc.(DSI) has engaged AECOM, globally recognized experts in PFAS investigation and remediation, to provide services related to the New York State Department of Environmental Conservation (DEC) request for additional PFAS Sampling at the Poestenkill, NY facility (the Site). AECOM has reviewed the various workplans, reports, and correspondence related to environmental actions at the Site. The document review included the most recent letter from the DEC transmitted on 21 March 2017. DSI sent a letter to the NYSDEC Dated 30 March 2022 that recommended sampling of select monitoring wells at the Site including DSI-1, DSI-3, DSI-4, DSI-6, and MW-2N. The NYSDEC replied with a letter 15 April 2022 requesting that deep monitoring well MW-1 be included in the sampling event. DSI agreed to collect a sample from MW-1.

Groundwater Sampling

Approximately two weeks prior to the groundwater sampling event, tubing and bailers were removed from the monitoring wells. After the materials were removed the wells were purged to remove any stagnant water. The wells were purged until three well volumes were removed or the until the well was dry. The purge water was placed in a drum onsite for future disposal.

The ground water sampling event was conducted on 27 April 2022. Groundwater samples were collected from six monitoring wells including DSI-1, DSI-3, DSI-4, DSI-6, MW-2N, and MW-1. Prior to the start of groundwater sampling all wells were gauged for depth to water. The groundwater samples were collected by AECOM field staff trained in PFAS sample collection and in accordance with the DEC's PFAS sampling Guidance (rev. June 2021). The groundwater samples were collected with PFAS free sampling equipment with low flow methods utilizing peristaltic pumps and dedicated tubing. Monitoring well DSI-4 went dry and a sample was collected after the well fully recharged. The monitoring well field forms are included as **Attachment A.** Quality Control samples were collected in

accordance with NYSDEC guidance including one equipment blank, one ambient blank, one blind field duplicate, and one MS/MSD. The blank samples were collected using laboratory supplied PFAS free distilled water.

The groundwater samples were sent to the contracted laboratory (Eurofins) under chain of custody for analysis by EPA Method 537 (modified) for 21 PFAS compounds in accordance with the DEC guidance and the NYSDEC Letter dated 17 March 2022.

Groundwater Elevation

As stated above depth to groundwater measurements were taken at all site monitoring wells prior to sampling. Depth to water measurements and the corresponding groundwater elevations are included in **Attachment B** along with a groundwater flow map. The groundwater flow was found to be consistent with what has been reported for the Site historically. The groundwater at Site is moving south to southeast towards Newfoundland Creek.

As reported in the *Fall 2021 Semi-Annual Report* prepared by JMT, the southeastern-most well (DSI-4) is approximately 1,000 feet from the southern property boundary and about 2,000 feet from offsite homes (to the south). Based on an evaluation of surrounding topography, this southward component of flow does not appear to extend beyond the topographic lowland associated with Newfoundland Creek. In the vicinity of Snyders Corners Road, the topography and presumably groundwater flow, slopes northward towards the Newfoundland Creek lowland suggesting that groundwater from the DSI Site does not reach the homes in this area.

Groundwater PFAS Results

As stated previously groundwater samples were collected from six monitoring wells at the site including DSI-1, DSI-3, DSI-4, DSI-6, MW-2N, and MW-1 on 27 April 2022. The PFAS results from these samples are consistent with the PFAS results for groundwater samples collected in November 2021. The validated results are tabulated in **Attachment C.**

Perfluorooctanoic acid (PFOA) was detected at 20 ng/L in the groundwater sample from monitoring well DSI-4. This result was the only exceedance of the New York Maximum Contaminant Limit of 10 ng/L for PFOA. Previously PFOA had been detected in this well at 23.1 ng/L in the sample collected in November 2021. Low levels of PFOA were detected below the MCL in all other shallow monitoring wells at the Site and was not detected in the groundwater sample from the deep monitoring well (MW-1).

Perfluorooctanesulfonic acid (PFOS) was detected in all shallow monitoring wells at low concentrations below the NY MCL of 10 ng/L. PFOS was not detected in the groundwater sample from the deep monitoring well (MW-1).

Other unregulated PFAS compounds were detected in the groundwater samples which is consistent with the previous PFAS groundwater results for the Site. The only detection in the deep monitoring well (MW-1) was for the unregulated compound Perfluorobutanesulfonic acid (PFBS) at an estimated concentration of 1 ng/L.

No PFAS compounds were detected in the ambient blank or the equipment blank taken during this sampling event.

All of the data has been validated by an AECOM chemist and a Data Usability Summary Report (DUSR) is included as **Attachment D**. All of the data was found to be usable, and the validated qualifiers have been included in the data table.

Summary

The PFAS groundwater results from November 2021 and April 2022 indicate that there are low levels of PFAS in some areas of shallow groundwater at the Site. There are no PFAS impacts to deep groundwater at the Site as indicated from the results for MW-1. The highest concentrations of PFOA are in the monitoring well furthest from the DSI facility and away from the TCE source area suggesting that this detection is not related to the DSI operation or the historic spill of TCE. As stated previously there is no known historic or current use of PFAS containing material in the operations at the Site.

Attachment A

Field Sampling Forms

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: MW-1 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: MW-1 042722 QA/QC Collected? MS/MSD

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	54.5	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	6.59	feet
4. C = Column of Water in Casing:	47.91	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	7.8	gal
6. D2 = Pump Setting Depth (ft):	52'	feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	0940	0945	0950	0955	1000	1005	1010
Water Level (0.33)	feet	6.74	7.70	8.49	9.11	9.79	10.73	11.29
Volume Purged	gal	0	0.2	0.37	0.55	0.7	0.95	1.1
Flow Rate	mL / min	130	190	140	140	140	190	140
Turbidity (+/- 10%)	NTU	56.7	66.4	59.7	66.1	65.1	56.1	99.9
Dissolved Oxygen (+/- 10%)	%	41.5	38.2	38.6	38.3	36.7	37.2	37.3
Dissolved Oxygen (+/- 10%)	mg/L	4.68	4.24	4.26	4.25	4.10	4.11	4.13
Eh / ORP (+/- 10)	MeV	148.6	127.8	119.3	116.4	112.8	110.7	109.2
Specific Conductivity	mS/cm[c]	0.434	0.399	0.396	0.395	0.394	0.394	0.393
Conductivity (+/- 3%)	mS/cm	0.318	0.290	0.287	0.288	0.288	0.287	0.287
pH (+/- 0.1)	pH unit	6.76	7.10	7.24	7.28	7.33	7.37	7.39
Temp (+/- 0.5)	C	10.7	10.7	10.6	10.8	10.9	10.9	10.9
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	cloudy
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 0938

Sample Time: 1235

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: MW-1 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: MW-1 042722 QA/QC Collected? MS/MSD

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	54.5	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	6.59	feet
4. C = Column of Water in Casing:	47.91	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	7.8	gal
6. D2 = Pump Setting Depth (ft):	52	feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1015	1020	1025	1030	1035	1040	1045
Water Level (0.33)	feet	11.98	12.84	13.59	13.96	14.42	14.90	15.38
Volume Purged	gal	1.25	1.5	1.65	1.75	1.9	2.05	2.2
Flow Rate	mL / min	140	150	100	100	100	100	105
Turbidity (+/- 10%)	NTU	92.0	109	110	86.8	77.2	87.5	77.5
Dissolved Oxygen (+/- 10%)	%	37.5	37.9	38.2	37.6	37.7	37.6	37.8
Dissolved Oxygen (+/- 10%)	mg/L	4.17	4.15	4.21	4.18	4.16	4.15	4.15
Eh / ORP (+/- 10)	MeV	107.3	106.0	105.1	104.4	104.3	104.2	104.0
Specific Conductivity	mS/cm[c]	0.393	0.391	0.391	0.392	0.392	0.392	0.391
Conductivity (+/- 3%)	mS/cm	0.287	0.287	0.286	0.286	0.287	0.287	0.286
pH (+/- 0.1)	pH unit	7.41	7.43	7.44	7.46	7.47	7.47	7.48
Temp (+/- 0.5)	C	11.0	11.1	10.9	10.9	11.0	11.0	10.9
Color	Visual	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 0938

Sample Time: 1235

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: MW-1 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: MW-1 042722 QA/QC Collected? MS/MSD

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	54.5	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	6.59	feet
4. C = Column of Water in Casing:	47.91	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	7.8	gal
6. D2 = Pump Setting Depth (ft):	52	feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1050	1055	1100	1105	1110	1115	1120
Water Level (0.33)	feet	15.70	15.96	16.16	16.52	16.83	17.01	17.16
Volume Purged	gal	2.35	2.5	2.6	2.75	2.85	2.95	3.05
Flow Rate	mL / min	110	90	110	110	100	90	~~200~~
Turbidity (+/- 10%)	NTU	64.1	72.3	59.9	41.5	47.3	43.7	~~35.4~~ 79.8
Dissolved Oxygen (+/- 10%)	%	37.4	37.6	37.5	42.6	42.7	42.9	~~2.64~~ 33.2
Dissolved Oxygen (+/- 10%)	mg/L	4.10	4.12	4.12	4.71	4.71	4.82	3.64
Eh / ORP (+/- 10)	MeV	103.2	102.3	102.4	101.4	101.5	101.8	101.1
Specific Conductivity	mS/cm[c]	0.390	0.393	0.392	0.392	0.391	0.391	0.396
Conductivity (+/- 3%)	mS/cm	0.286	0.288	0.287	0.287	0.287	0.287	0.291
pH (+/- 0.1)	pH unit	7.49	7.50	7.48	7.53	7.52	7.53	7.55
Temp (+/- 0.5)	C	11.0	11.0	10.9	11.0	11.0	11.1	11.2
Color	Visual	cloudy	cloudy	cloudy	clear	clear	clear	cloudy
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 0938

Sample Time: 1235

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: MW-1 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: MW-1 042722 QA/QC Collected? MS/MSD

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	54.5	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	6.59	feet
4. C = Column of Water in Casing:	47.91	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	7.8	gal
6. D2 = Pump Setting Depth (ft):	52	feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1125	1130	1135	1140	1145	1150	1155
Water Level (0.33)	feet	17.34	17.88	18.49	19.16	19.78	20.05	2039
Volume Purged	gal	3.15	3.3	3.5	3.7	3.9	4.0	4.1
Flow Rate	mL / min	90	140	150	150	150	90	90
Turbidity (+/- 10%)	NTU	36.3	75.9	103	68.9	61.5	65.1	~~34.4~~
Dissolved Oxygen (+/- 10%)	%	32.9	34.7	34.7	35.3	35.2	34.4	34.1
Dissolved Oxygen (+/- 10%)	mg/L	3.59	3.76	3.78	3.83	3.80	3.71	3.74
Eh / ORP (+/- 10)	MeV	100.9	99.9	100.0	99.7	99.0	100.3	100.3
Specific Conductivity	mS/cm[c]	0.394	0.392	0.392	0.393	0.391	0.391	0.391
Conductivity (+/- 3%)	mS/cm	0.292	0.293	0.294	0.293	0.294	0.293	0.291
pH (+/- 0.1)	pH unit	7.55	7.56	7.56	7.55	7.56	7.55	7.53
Temp (+/- 0.5)	C	11.4	11.7	11.8	11.7	11.9	11.8	11.6
Color	Visual	clear	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 0938

Sample Time: 1235

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: MW-1 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: MW-1 042722 QA/QC Collected? MS/MSD

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	54.5	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	6.59	feet
4. C = Column of Water in Casing:	47.91	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	7.8	gal
6. D2 = Pump Setting Depth (ft):	52	feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings							
Time	24 hr	1200	1205	1210	1215	1220	1225	1230	1235
Water Level (0.33)	feet	20.55	20.94	21.58	21.95	22.10	22.99	22.99	22.99
Volume Purged	gal	4.25	4.35	4.6	4.7	4.8	5.05	5.2	5.3
Flow Rate	mL / min	140	140	155	90	120	85	85	85
Turbidity (+/- 10%)	NTU	45.6	48.7	48.0	50.4	43.6	44.1	46.1	45.8
Dissolved Oxygen (+/- 10%)	%	34.4	35.1	37.2	37.7	35.8	33.2	33.0	35.3
Dissolved Oxygen (+/- 10%)	mg/L	3.70	3.81	3.99	4.05	3.86	3.72	3.70	3.80
Eh / ORP (+/- 10)	MeV	100.7	101.3	100.6	101.4	100.7	101.0	102.0	103.1
Specific Conductivity	mS/cm^c	0.391	0.392	0.391	0.391	0.391	0.391	0.392	0.392
Conductivity (+/- 3%)	mS/cm	0.294	0.293	0.295	0.293	0.295	0.295	0.293	0.292
pH (+/- 0.1)	pH unit	7.54	7.53	7.55	7.53	7.53	7.54	7.52	7.50
Temp (+/- 0.5)	C	12.0	11.7	11.9	11.8	11.9	11.9	11.8	11.6
Color	Visual	clear	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none	none

Comments

Purge Start Time: 0938

Sample Time: 1235

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: MW-2N Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: _____ QA/QC Collected? Yes, DUP

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:		feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):		feet
4. C = Column of Water in Casing:		feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$		gal
6. D2 = Pump Setting Depth (ft):		feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings							
Time	24 hr	1050	1055	1100	1105	1110	1115	1120	1125
Water Level (0.33)	feet	3.99	4.37	4.46	4.51	4.51	4.49	4.51	4.51
Volume Purged	gal	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4
Flow Rate	mL / min	100	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	408	107	58.4	34.9	13.3	9.62	7.00	5.74
Dissolved Oxygen (+/- 10%)	%	0.7	-3.7	-4.5	-4.9	0.5	0.0	0.1	-0.1
Dissolved Oxygen (+/- 10%)	mg/L	0.05	---	---	---	0.03	0.00	0.00	0.--
Eh / ORP (+/- 10)	MeV	-86.4	-85.3	-95.7	-99.4	-81.2	-78.4	-75.2	-73.5
Specific Conductivity	mS/cm[c]	1241	1241	1240	1247	1296	1302	1308	1311
Conductivity (+/- 3%)	mS/cm	0.62	0.62	0.62	0.63	0.65	0.65	0.66	0.65
pH (+/- 0.1)	pH unit	6.91	6.94	6.91	6.91	6.72	6.73	6.77	6.75
Temp (+/- 0.5)	C	18.4	18.5	18.6	18.5	18.6	18.6	18.7	18.7
Color	Visual	Cloudy	Cloudy	=	=	Clear	=	=	=
Odor	Olfactory	Odor	Odor	=	=	=	=	=	=

Comments

Purge Start Time: 1050

Sample Time: 1125

Sulfur odor Present

DUP collected

Page of

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: DSI - 1 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	_____	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	_____	feet
4. C = Column of Water in Casing:	_____	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	_____	gal
6. D2 = Pump Setting Depth (ft):	_____	feet
7. C2 = Column of water in Pump/Tubing (ft):	_____	feet
8. Tubing Volume = C2(0.005737088)	_____	gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1215	1220	1225	1230	1235	1240	1245
Water Level (0.33)	feet	5.01	6.70	7.46	7.71	8.04	8.19	8.31
Volume Purged	gal	0.0	0.25	0.5	0.75	1.1	1.4	1.7
Flow Rate	mL / min	100	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	7.35	3.03	3.63	0.98	0.32	0.02	0.08
Dissolved Oxygen (+/- 10%)	%	1.3	-2.3	-3.2	-3.5	-3.9	-4.2	-4.1
Dissolved Oxygen (+/- 10%)	mg/L	0.12	---	---	---	---	---	---
Eh / ORP (+/- 10)	MeV	22.7	36.4	37.9	+39.7	45.6	52.1	56.2
Specific Conductivity	mS/cm[c]	109.8	103.0	101.0	99.1	95.3	92.2	93.1
Conductivity (+/- 3%)	mS/cm	0.078	0.073	0.072	0.070	0.067	0.065	0.066
pH (+/- 0.1)	pH unit	6.45	6.41	6.43	6.45	6.42	6.39	6.38
Temp (+/- 0.5)	C	10.1	10.0	9.7	9.9	9.7	9.8	9.7
Color	Visual	clear	"	"	"	"		"
Odor	Olfactory	None	"	"	"	"	"	"

Comments

Purge Start Time: 1215

Sample Time: 1305

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: DSI - 1 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:		feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):		feet
4. C = Column of Water in Casing:		feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$		gal
6. D2 = Pump Setting Depth (ft):		feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1250	1255	1300				
Water Level (0.33)	feet	8.39	8.42	8.45				
Volume Purged	gal	1.9	2.1	2.3				
Flow Rate	mL / min	200	200	200				
Turbidity (+/- 10%)	NTU	0.2	0.2	0.9				
Dissolved Oxygen (+/- 10%)	%	-4.0	-4.4	-4.5				
Dissolved Oxygen (+/- 10%)	mg/L	- - -	- - -	- - -				
Eh / ORP (+/- 10)	MeV	61.7	63.3	69.2				
Specific Conductivity	mS/cm[c]	92.2	92.1	92.4				
Conductivity (+/- 3%)	mS/cm	0.065	0.065	0.065				
pH (+/- 0.1)	pH unit	6.37	6.36	6.35				
Temp (+/- 0.5)	C	9.8	9.7	9.7				
Color	Visual	clear	"	"				
Odor	Olfactory	none	"	"				

Comments

Purge Start Time: 1215

Sample Time: 1305

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: DST-3 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: DST-3 042722 QA/QC Collected? EB-042722 & AB-042722

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	24	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	4.62	feet
4. C = Column of Water in Casing:	19.38	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	3.16	gal
6. D2 = Pump Setting Depth (ft):	21.5	feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1330	1335	1340	1345	1350	1355	1400
Water Level (0.33)	feet	5.03	5.85	6.98	7.75	8.27	8.75	9.10
Volume Purged	gal	0	0.2	0.5	0.8	1.05	1.3	1.6
Flow Rate	mL / min	140	140	155	160	160	160	160
Turbidity (+/- 10%)	NTU	49.0	52.0	98.9	54.8	57.6	47.4	45.0
Dissolved Oxygen (+/- 10%)	%	5.1	2.8	1.9	2.2	2.4	1.9	1.8
Dissolved Oxygen (+/- 10%)	mg/L	0.58	0.37	0.20	0.25	0.28	0.22	0.21
Eh / ORP (+/- 10)	MeV	106.8	69.4	35.5	24.7	18.1	11.7	6.8
Specific Conductivity	mS/cm[c]	1.07	1.05	1.02	1.01	1.00	1.00	1.00
Conductivity (+/- 3%)	mS/cm	0.74	0.72	0.70	0.69	0.69	0.69	0.69
pH (+/- 0.1)	pH unit	6.23	6.57	6.69	6.73	6.74	6.75	6.76
Temp (+/- 0.5)	C	8.8	8.6	8.5	8.6	8.5	8.7	8.7
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	none	none	none	none	none	none	none

Comments

Purge Start Time: 1327

Sample Time: 1425

Equipment Blank EB-042722 Collected here @ 1450

Ambient Blank AB-042722 Collected here @ 1500

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: DSI-3 Date: 4/27/2022

Samplers: Chris French, Tom Quackenbush

Sample Number: DSI-3 042722 QA/QC Collected? EB-042722 & AB-042722

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	24	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	4.62	feet
4. C = Column of Water in Casing:	19.38	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	3.16	gal
6. D2 = Pump Setting Depth (ft):	21.5	feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1405	1410	1415	1420	1425		
Water Level (0.33)	feet	9.34	9.55	9.45	9.45	9.45		
Volume Purged	gal	1.85	2.1	2.3	2.45	2.6		
Flow Rate	mL / min	150	120	120	120	120		
Turbidity (+/- 10%)	NTU	34.3	29.8	26.8	25.2	24.8		
Dissolved Oxygen (+/- 10%)	%	1.8	1.7	1.7	1.7	1.8		
Dissolved Oxygen (+/- 10%)	mg/L	0.19	0.20	0.19	0.20	0.21		
Eh / ORP (+/- 10)	MeV	2.5	-1.5	-4.6	-7.6	-11.4		
Specific Conductivity	mS/cm[c]	1.00	0.99	0.99	0.99	0.99		
Conductivity (+/- 3%)	mS/cm	0.69	0.68	0.68	0.68	0.68		
pH (+/- 0.1)	pH unit	6.77	6.77	6.77	6.77	6.78		
Temp (+/- 0.5)	C	8.7	8.7	8.7	8.7	8.7		
Color	Visual	clear	clear	clear	clear	clear		
Odor	Olfactory	none	none	none	none	none		

Comments

Purge Start Time: 1327

Sample Time: 1425

Batteries changed @ 1410 (Peristaltic Pump)

Equipment Blank EB-042722 collected @ 1450

Ambient Blank AB-042722 collected @ 1500

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: DSI - 4 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	_____	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	_____	feet
4. C = Column of Water in Casing:	_____	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	_____	gal
6. D2 = Pump Setting Depth (ft):	_____	feet
7. C2 = Column of water in Pump/Tubing (ft):	_____	feet
8. Tubing Volume = C2(0.005737088)	_____	gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings					
Time	24 hr	0940	0945	0950	0955	1000	1005
Water Level (0.33)	feet	1.63	3.99	5.20	6.12	6.63	8.29
Volume Purged	gal	0.05	0.3	0.5	0.65	0.85	1.1
Flow Rate	mL / min	250	260	250	250	250	250
Turbidity (+/- 10%)	NTU	18.6	19.4	12.9	8.13	4.42	
Dissolved Oxygen (+/- 10%)	%	10.7	21.2	20.5	24.5	9.3	6.8
Dissolved Oxygen (+/- 10%)	mg/L	1.09	1.67	1.69	2.42	1.08	0.81
Eh / ORP (+/- 10)	MeV	-52.6	-37.3	-71.4	-88.5	-95.0	-91.0
Specific Conductivity	mS/cm^c	698.7	711.1	1186.0	1365	1369	1320
Conductivity (+/- 3%)	mS/cm	0.31	0.35	0.59	0.69	0.69	0.66
pH (+/- 0.1)	pH unit	6.69	6.67	6.73	6.82	6.83	6.87
Temp (+/- 0.5)	C	8.1	8.6	7.4	7.1	7.1	7.1
Color	Visual	Sl. light yellow	=	=	clear	=	=
Odor	Olfactory	None	=	=	=	=	=

Comments

Purge Start Time: 0940

Sample Time: 1457

0950 adjust tubing

1009 well dry 1.3 gallons

Page of

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: DSI-6 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:		feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):		feet
4. C = Column of Water in Casing:		feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)		gal
6. D2 = Pump Setting Depth (ft):		feet
7. C2 = Column of water in Pump/Tubing (ft):		feet
8. Tubing Volume = C2(0.005737088)		gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings							
Time	24 hr	1330	1335	1340	1345	1350	1355	1400	1405
Water Level (0.33)	feet	6.45	7.68	8.23	8.87	9.38	9.69	9.94	10.14
Volume Purged	gal	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4
Flow Rate	mL / min	100	150	150	150	150	150	150	150
Turbidity (+/- 10%)	NTU	54.9	39.7	27.5	21.2	18.4	16.8	12.9	9.54
Dissolved Oxygen (+/- 10%)	%	21.2	2.0	0.0	-0.6	-2.3	-2.4	-2.4	-3.4
Dissolved Oxygen (+/- 10%)	mg/L	2.17	0.21	---	---	---	---	---	---
Eh / ORP (+/- 10)	MeV	23.6	-12.9	-26.5	-37.8	-45.9	-51.0	-54.2	-57.4
Specific Conductivity	mS/cm[c]	334.6	339.6	340.9	347.0	355.5	358.6	363.5	369.3
Conductivity (+/- 3%)	mS/cm	0.234	0.236	0.237	0.241	0.246	0.249	0.252	0.255
pH (+/- 0.1)	pH unit	6.83	6.83	6.84	6.84	6.84	6.84	6.85	6.85
Temp (+/- 0.5)	C	9.3	9.1	9.1	9.1	8.9	8.9	8.9	8.9
Color	Visual	Clear	"	"	"	"	"	"	"
Odor	Olfactory	odor	"	"	"	"	"	"	"

Comments

Purge Start Time: 1330

Sample Time: 1425

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: DSI Poestenkill 60682557

Monitoring Well Number: DSI - 6 Date: 4/27/2022

Samplers: Chris French/Tom Quackenbush

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Peristaltic/Low Flow

1. L = Total Well Depth:	_____	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Static Depth to Water (TOC):	_____	feet
4. C = Column of Water in Casing:	_____	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	_____	gal
6. D2 = Pump Setting Depth (ft):	_____	feet
7. C2 = Column of water in Pump/Tubing (ft):	_____	feet
8. Tubing Volume = C2(0.005737088)	_____	gal

D (inches)	D (feet)
1-inch	0.08
1.5-inch	0.125
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.092	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Prof. + Quatro and Geotech Turbidity Meter

Parameter	Units	Readings						
Time	24 hr	1410	1415	1480	1425			
Water Level (0.33)	feet	10.39	10.51	10.59	10.64			
Volume Purged	gal	1.4	1.6	1.8	2.0			
Flow Rate	mL / min	150	150	150	150			
Turbidity (+/- 10%)	NTU	11.3	7.96	6.79	6.11			
Dissolved Oxygen (+/- 10%)	%	-3.8	-3.7	-3.2	-3.7			
Dissolved Oxygen (+/- 10%)	mg/L	- - -	- - -	- - -	- - -			
Eh / ORP (+/- 10)	MeV	-60.5	-62.0	-63.4	-64.3			
Specific Conductivity	mS/cm[c]	371.4	374.3	376.2	377.2			
Conductivity (+/- 3%)	mS/cm	0.256	0.258	0.259	0.261			
pH (+/- 0.1)	pH unit	6.85	6.85	6.85	6.85			
Temp (+/- 0.5)	C	8.8	8.7	8.7	8.8			
Color	Visual	Clear	"	"	"			
Odor	Olfactory	Odor	"	"	"			

Comments

Purge Start Time: 1330

Sample Time: 1425

* Three consecutive readings within range indicates stabilization of that parameter.

Attachment B

Groundwater Elevation Data and Figure

Groundwater Elevations 4/27/22

WELL ID	GROUND ELEV.	STICK UP/DOWN	MEASURMENT ELEV.	4/27/2022 DTW (FT)	4/27/2022 GW ELV.
MW-2N	458.431	-0.375	458.056	3.990	454.066
MW-2	458.458	-0.333	458.125	4.010	454.115
DSI-4	444.026	-0.420	443.606	1.300	442.306
DSI-2	457.190	-0.542	456.648	6.150	450.498
DSI-5	456.497	-0.542	455.955	4.110	451.845
DSI-6	456.434	-0.250	456.184	6.300	449.884
DSI-1	457.355	-0.167	457.188	4.830	452.358
DSI-3	455.848	-0.417	455.431	4.620	450.811
DSI-7	453.012	2.708	455.720	4.800	450.920

Former location of vapor degreaser

MW-2N (454.1)

MW-1

MW-2 (454.1)

454

453

452

451

450

449

448

447

446

445

444

443

DSI-1 (452.4)

DSI-5 (451.8)

DSI-3 (450.8)

DSI-2 (450.5)

DSI-6 (449.9)

DSI-4 (442.3)

Ditch

DSI-7 (450.9)

Note: Groundwater measurements collected jointly by JMT and AECOM

442.3 GROUNDWATER ELEVATION

MONITORING WELL

STORMWATER DRAINS

FENCE

TREELINE

FLOW DIRECTION

NO.	DATE	RECORD OF WORK	DRN	CKD	APPR

PROJECT

PROJ. ENGR.:	JC
PROJ. NO.:	11124
PREPARED BY:	MG
DRAFTED BY:	MG
CHECKED BY:	YW
APPROVED BY:	
DATUM:	
CONTOUR INTERVAL:	0.5 ft

0 20 40

1"=40'

SPRING 2022 GROUNDWATER FLOW MAP
DYNAMIC SYSTEMS, INC.
POESTENKILL, NEW YORK

TOWN OF POESTENKILL RENSSELAER CO.,NY

19 British American Blvd.,Latham, New York 12110
P: (518) 782-0882 F: (518) 782-0973 www.jmt.com

DATE: 05/20/2022 | SCALE: 1" = 40' | DWG: 11124.03 | FIGURE 1

Attachment C

Validated Groundwater Results Table

PFAS Groundwater Results- Validated
DSI Poestenkill

Sample ID		MW-2N 042722		MW-1 042722		DSI-1 042722		DSI-3 042722		DSI-6 042722		DSI-4 042722		*Dup-042722		EB-042722		AB-042722	
Sampling Date		4/27/2022		4/27/2022		4/27/2022		4/27/2022		4/27/2022		4/27/2022		4/27/2022		4/27/2022		4/27/2022	
Matrix		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units		ng/L																	
LCMS - 537	**NY MCL**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Perfluorohexanoic acid (PFHxA)		**8.1**		ND		**0.73**	J	**3.4**		**1.5**	J	ND		**8.5**		ND		ND	
Perfluoroheptanoic acid (PFHpA)		**1.8**	NJ	ND		**0.84**	J	**3**		**0.96**	NJ	**6.2**		**2.1**	NJ	ND		ND	
Perfluorooctanoic acid (PFOA)	10	**5.1**		ND		**0.93**	J	**8.1**		**2.1**		**20**		**4.7**		ND		ND	
Perfluorononanoic acid		ND		ND		**1.0**	J	ND		ND		**2.2**		ND		ND		ND	
Perfluorodecanoic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluorotridecanoic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluorotetradecanoic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluorobutanesulfonic acid (PFBS)		**120**		**1.0**	J	**0.52**	J	**5.6**		**8.3**		**2**		**120**		ND		ND	
Perfluorohexanesulfonic acid		ND		ND		ND		ND		ND		**0.64**	NJ	ND		ND		ND	
Perfluorooctanesulfonic acid (PFOS)	10	**1.9**		ND		**2.2**		**4.2**		**1.3**	J	**3.1**		**1.8**		ND		ND	
NEtFOSAA		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NMeFOSAA		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluoroheptanesulfonic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluorodecanesulfonic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluorooctanesulfonamide		ND		ND		ND		**1.1**	J	ND		ND		ND		ND		ND	
Perfluorobutanoic acid (PFBA)		**6.9**		ND		**ND**		**5.3**		**1.9**	J	**12**		**6.8**		ND		ND	
Perfluoroundecanoic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluorododecanoic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
6:2 Fluorotelomer sulfonic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
8:2 Fluorotelomer sulfonic acid		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Perfluoropentanoic acid (PFPeA)		**10**		ND		**1.3**	J	**3.2**		**1.5**	J	**4.2**		**11**		ND		ND	

Shading indicates result exceeds NY MCL

Bold indicates detected result.

ND: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

NJ : The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

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

*Duplicate Sample Collected at MW-2N

Attachment D

Data Usability Summary Report

DATA USABILITY SUMMARY REPORT

2022 GROUNDWATER SAMPLING EVENT
POESTENKILL, NEW YORK

Analyses Performed by:

EUROFINS TESTAMERICA
LANCASTER, PENNSYLVANIA

Prepared for:
DSI

Prepared by:

AECOM
ONE JOHN JAMES AUDUBON PARKWAY
SUITE 210
AMHERST, NEW YORK 14228

MAY 2022

TABLE OF CONTENTS

ATTACHMENTS

1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability and Summary Reports,* May 2010. Discussed in this DUSR are analytical data for six groundwater (GW) samples, one GW field duplicate (FD), one GW matrix spike/matrix spike duplicate (MS/MSD) pair, one ambient blank, and one field blank collected by AECOM personnel on April 27, 2022 from the Poestenkill, NY site.

2.0 ANALYTICAL METHODOLOGIES/DATA VALIDATION PROCEDURES

The samples were delivered to Eurofins located in Lancaster, Pennsylvania. The samples were analyzed for the following parameter:

Parameter	**Method Number**
Per- and Polyfluoroalkyl Substances (PFASs)	Method 537-Modified

A limited data validation was performed following the guidelines in the following NYSDEC document:

- *Data Review Guidelines for the analysis of PFAS in Non-Potable Water and Solids. Sampling, Analysis, and Assessment Of Per- and Polyfluoroalkyl Substances (PFASs) Under NYSDEC Part 375 Remedial Programs, Appendix I - January 2021*.

The limited validation included: a review of completeness of all required deliverables; holding times; a review of quality control (QC) results [blanks, instrument tunings, calibration standards, field duplicate analyses, and MS/MSD/laboratory control sample (LCS) recoveries] to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Data qualifiers applied to the results during the validation included 'NJ' (tentatively identified, approximate concentration). Definitions of data qualifiers are presented at the end of this text. Copies of the

validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

A full deliverable data package (i.e., NYSDEC ASP Category B, or equivalent) was provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). All samples were analyzed within the required holding times.

5.0 NON-CONFORMANCES

Laboratory Method Blank

Perfluorooctanesulfonic acid was detected in the laboratory method blank at a concentration below the reporting limit (RL) but greater than the method detection limit (MDL) (i.e., J value). Since the result for this compound in the associated sample was greater than the RL, the B qualifier applied by the laboratory has been removed.

Surrogate/Internal Standards

DSI-3, DSI-4, and DSI-6 showed surrogate and internal standard outliers. These samples were re-extracted and re-analyzed and showed acceptable recoveries. Since the re-extraction occurred within the holding time, the results of the re-extractions have been reported and the initial analyses Form I's were crossed out.

Field Duplicate Sample

A field duplicate was collected at GW location MW-2N and exhibited good analytical precision (i.e., ≤ 30% relative percent difference).

6.0 SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors (if applicable). Results less than the RL were qualified 'J' by the laboratory.

The ion mass ratio for perfluoroheptanoic acid in samples MW-2N, Dup-042722 (MW-2N) and DSI-6; and perfluorohexanesulfonic acid in DSI-4 were outside of the laboratory's QC limits for identification. The laboratory has reported the results as a detection using analyst judgement and qualified the result 'I'. The 'I' qualifier was changed to 'NJ' by the validator.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'NJ' (tentatively identified, approximate concentration) are considered conditionally usable. AECOM does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist **Date:** 5/18/22

Reviewed By: George E. Kisluk, Senior Chemist **Date:** 5/18/22

DEFINITIONS OF DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

D – The positive value is the result of an analysis at a secondary dilution factor

NJ- The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

ATTACHMENT A

VALIDATED FORM 1's

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: MW-2N 042722 Lab Sample ID: 410-82166-1

Matrix: Water Lab File ID: 22MAY12-34.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 11:25

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 280.6(mL) Date Analyzed: 05/12/2022 22:28

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	8.1		1.8	0.45
375-85-9	Perfluoroheptanoic acid	1.8	NJ	1.8	0.45
335-67-1	Perfluorooctanoic acid	5.1		1.8	0.45
375-95-1	Perfluorononanoic acid	ND		1.8	0.45
335-76-2	Perfluorodecanoic acid	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid	120		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.45
1763-23-1	Perfluorooctanesulfonic acid	1.9		1.8	0.45
2991-50-6	NEtFOSAA	ND		2.7	0.45
2355-31-9	NMeFOSAA	ND		1.8	0.53
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.45
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.45
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.45
375-22-4	Perfluorobutanoic acid	6.9		4.5	1.8
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid	ND		1.8	0.45
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.5	1.8
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.7	0.89
2706-90-3	Perfluoropentanoic acid	10		1.8	0.45

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: MW-1 042722 Lab Sample ID: 410-82166-2

Matrix: Water Lab File ID: 22MAY12-35.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 12:35

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 303.2(mL) Date Analyzed: 05/12/2022 22:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1.6	0.41
375-85-9	Perfluoroheptanoic acid	ND		1.6	0.41
335-67-1	Perfluorooctanoic acid	ND		1.6	0.41
375-95-1	Perfluorononanoic acid	ND		1.6	0.41
335-76-2	Perfluorodecanoic acid	ND		1.6	0.41
72629-94-8	Perfluorotridecanoic acid	ND		1.6	0.41
376-06-7	Perfluorotetradecanoic acid	ND		1.6	0.41
375-73-5	Perfluorobutanesulfonic acid	1.0	J	1.6	0.41
355-46-4	Perfluorohexanesulfonic acid	ND		1.6	0.41
1763-23-1	Perfluorooctanesulfonic acid	ND		1.6	0.41
2991-50-6	NEtFOSAA	ND		2.5	0.41
2355-31-9	NMeFOSAA	ND		1.6	0.49
375-92-8	Perfluoroheptanesulfonic acid	ND		1.6	0.41
335-77-3	Perfluorodecanesulfonic acid	ND		1.6	0.41
754-91-6	Perfluorooctanesulfonamide	ND		1.6	0.41
375-22-4	Perfluorobutanoic acid	ND		4.1	1.6
2058-94-8	Perfluoroundecanoic acid	ND		1.6	0.41
307-55-1	Perfluorododecanoic acid	ND		1.6	0.41
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.1	1.6
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.5	0.82
2706-90-3	Perfluoropentanoic acid	ND		1.6	0.41

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: DSI-1 042722 Lab Sample ID: 410-82166-3

Matrix: Water Lab File ID: 22MAY12-38.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 13:05

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 265.8(mL) Date Analyzed: 05/12/2022 23:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	0.73	J	1.9	0.47
375-85-9	Perfluoroheptanoic acid	0.84	J	1.9	0.47
335-67-1	Perfluorooctanoic acid	0.93	J	1.9	0.47
375-95-1	Perfluorononanoic acid	1.0	J	1.9	0.47
335-76-2	Perfluorodecanoic acid	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid	0.52	J	1.9	0.47
355-46-4	Perfluorohexanesulfonic acid	ND		1.9	0.47
1763-23-1	Perfluorooctanesulfonic acid	2.2		1.9	0.47
2991-50-6	NEtFOSAA	ND		2.8	0.47
2355-31-9	NMeFOSAA	ND		1.9	0.56
375-92-8	Perfluoroheptanesulfonic acid	ND		1.9	0.47
335-77-3	Perfluorodecanesulfonic acid	ND		1.9	0.47
754-91-6	Perfluorooctanesulfonamide	ND		1.9	0.47
375-22-4	Perfluorobutanoic acid	ND		4.7	1.9
2058-94-8	Perfluoroundecanoic acid	ND		1.9	0.47
307-55-1	Perfluorododecanoic acid	ND		1.9	0.47
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.7	1.9
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.8	0.94
2706-90-3	Perfluoropentanoic acid	1.3	J	1.9	0.47

Use these results

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: DSI-3 042722 RE Lab Sample ID: 410-82166-4 RE

Matrix: Water Lab File ID: 22MAY10-44.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 14:25

Extraction Method: 537 IDA Date Extracted: 05/09/2022 08:14

Sample wt/vol: 315.3(mL) Date Analyzed: 05/10/2022 16:20

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 3(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 253572 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	*Perfluorohexanoic acid*	*3.4*		*1.6*	*0.40*
375-85-9	*Perfluoroheptanoic acid*	*3.0*		*1.6*	*0.40*
335-67-1	*Perfluorooctanoic acid*	*8.1*		*1.6*	*0.40*
375-95-1	*Perfluorononanoic acid*	*ND*		*1.6*	*0.40*
335-76-2	*Perfluorodecanoic acid*	*ND*		*1.6*	*0.40*
72629-94-8	*Perfluorotridecanoic acid*	*ND*		*1.6*	*0.40*
376-06-7	*Perfluorotetradecanoic acid*	*ND*		*1.6*	*0.40*
375-73-5	*Perfluorobutanesulfonic acid*	*5.6*		*1.6*	*0.40*
355-46-4	*Perfluorohexanesulfonic acid*	*ND*		*1.6*	*0.40*
1763-23-1	*Perfluorooctanesulfonic acid*	*4.2*		*1.6*	*0.40*
2991-50-6	*NEtFOSAA*	*ND*		*2.4*	*0.40*
2355-31-9	*NMeFOSAA*	*ND*		*1.6*	*0.48*
375-92-8	*Perfluoroheptanesulfonic acid*	*ND*		*1.6*	*0.40*
335-77-3	*Perfluorodecanesulfonic acid*	*ND*		*1.6*	*0.40*
754-91-6	*Perfluorooctanesulfonamide*	*1.1*	*J*	*1.6*	*0.40*
375-22-4	*Perfluorobutanoic acid*	*5.3*		*4.0*	*1.6*
2058-94-8	*Perfluoroundecanoic acid*	*ND*		*1.6*	*0.40*
307-55-1	*Perfluorododecanoic acid*	*ND*		*1.6*	*0.40*
27619-97-2	*6:2 Fluorotelomer sulfonic acid*	*ND*		*4.0*	*1.6*
39108-34-4	*8:2 Fluorotelomer sulfonic acid*	*ND*		*2.4*	*0.79*
2706-90-3	*Perfluoropentanoic acid*	*3.2*		*1.6*	*0.40*

Use the RE results - not this one

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: DSI-3 042722 Lab Sample ID: 410-82166-4

Matrix: Water Lab File ID: 22MAY12-39.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 14:25

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 316.1(mL) Date Analyzed: 05/12/2022 23:24

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	3.8		1.6	0.40
375-85-9	Perfluoroheptanoic acid	2.4		1.6	0.40
335-67-1	Perfluorooctanoic acid	8.5		1.6	0.40
375-95-1	Perfluorononanoic acid	ND		1.6	0.40
335-76-2	Perfluorodecanoic acid	ND		1.6	0.40
72629-94-8	Perfluorotridecanoic acid	ND		1.6	0.40
376-06-7	Perfluorotetradecanoic acid	ND		1.6	0.40
375-73-5	Perfluorobutanesulfonic acid	5.5		1.6	0.40
355-46-4	Perfluorohexanesulfonic acid	ND		1.6	0.40
1763-23-1	Perfluorooctanesulfonic acid	3.9		1.6	0.40
2991-50-6	NEtFOSAA	ND		2.4	0.40
2355-31-9	NMeFOSAA	ND		1.6	0.47
375-92-8	Perfluoroheptanesulfonic acid	ND		1.6	0.40
335-77-3	Perfluorodecanesulfonic acid	ND		1.6	0.40
754-91-6	Perfluorooctanesulfonamide	ND		1.6	0.40
375-22-4	Perfluorobutanoic acid	4.5		4.0	1.6
2058-94-8	Perfluoroundecanoic acid	ND		1.6	0.40
307-55-1	Perfluorododecanoic acid	ND		1.6	0.40
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.0	1.6
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.4	0.79
2706-90-3	Perfluoropentanoic acid	3.4		1.6	0.40

Use these results

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: DSI-6 042722 RE Lab Sample ID: 410-82166-5 RE

Matrix: Water Lab File ID: 22MAY10-45.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 14:25

Extraction Method: 537 IDA Date Extracted: 05/09/2022 08:14

Sample wt/vol: 271.6(mL) Date Analyzed: 05/10/2022 16:31

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 3(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 253572 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	1.5	J	1.8	0.46
375-85-9	Perfluoroheptanoic acid	0.96	NJ	1.8	0.46
335-67-1	Perfluorooctanoic acid	2.1		1.8	0.46
375-95-1	Perfluorononanoic acid	ND		1.8	0.46
335-76-2	Perfluorodecanoic acid	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid	8.3		1.8	0.46
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.46
1763-23-1	Perfluorooctanesulfonic acid	1.3	J	1.8	0.46
2991-50-6	NEtFOSAA	ND		2.8	0.46
2355-31-9	NMeFOSAA	ND		1.8	0.55
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.46
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.46
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.46
375-22-4	Perfluorobutanoic acid	1.9	J	4.6	1.8
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid	ND		1.8	0.46
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.6	1.8
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.8	0.92
2706-90-3	Perfluoropentanoic acid	1.5	J	1.8	0.46

Use the RE results - not this one

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: DSI-6 042722 Lab Sample ID: 410-82166-5

Matrix: Water Lab File ID: 22MAY12-40.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 14:25

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 279.5(mL) Date Analyzed: 05/12/2022 23:35

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	1.5	J	1.8	0.45
375-85-9	Perfluoroheptanoic acid	0.70	J	1.8	0.45
335-67-1	Perfluorooctanoic acid	2.4		1.8	0.45
375-95-1	Perfluorononanoic acid	ND		1.8	0.45
335-76-2	Perfluorodecanoic acid	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid	8.0		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.45
1763-23-1	Perfluorooctanesulfonic acid	1.2	J	1.8	0.45
2991-50-6	NEtFOSAA	ND		2.7	0.45
2355-31-9	NMeFOSAA	ND		1.8	0.54
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.45
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.45
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.45
375-22-4	Perfluorobutanoic acid	ND		4.5	1.8
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid	ND		1.8	0.45
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.5	1.8
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.7	0.89
2706-90-3	Perfluoropentanoic acid	1.9		1.8	0.45

Use these results

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: DSI-4 042722 RE Lab Sample ID: 410-82166-6 RE

Matrix: Water Lab File ID: 22MAY10-46.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 14:57

Extraction Method: 537 IDA Date Extracted: 05/09/2022 08:14

Sample wt/vol: 287.1(mL) Date Analyzed: 05/10/2022 16:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 3(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 253572 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1.7	0.44
375-85-9	Perfluoroheptanoic acid	6.2		1.7	0.44
335-67-1	Perfluorooctanoic acid	20		1.7	0.44
375-95-1	Perfluorononanoic acid	2.2		1.7	0.44
335-76-2	Perfluorodecanoic acid	ND		1.7	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.7	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.7	0.44
375-73-5	Perfluorobutanesulfonic acid	2.0		1.7	0.44
355-46-4	Perfluorohexanesulfonic acid	0.64	NJ	1.7	0.44
1763-23-1	Perfluorooctanesulfonic acid	3.1		1.7	0.44
2991-50-6	NEtFOSAA	ND		2.6	0.44
2355-31-9	NMeFOSAA	ND		1.7	0.52
375-92-8	Perfluoroheptanesulfonic acid	ND		1.7	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		1.7	0.44
754-91-6	Perfluorooctanesulfonamide	ND		1.7	0.44
375-22-4	Perfluorobutanoic acid	12		4.4	1.7
2058-94-8	Perfluoroundecanoic acid	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid	ND		1.7	0.44
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.4	1.7
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.6	0.87
2706-90-3	Perfluoropentanoic acid	4.2		1.7	0.44

Use the RE results - not this one

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: DSI-4 042722 Lab Sample ID: 410-82166-6

Matrix: Water Lab File ID: 22MAY12-41.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 14:57

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 282.3(mL) Date Analyzed: 05/12/2022 23:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1.8	0.44
375-85-9	Perfluoroheptanoic acid	3.6		1.8	0.44
335-67-1	Perfluorooctanoic acid	31		1.8	0.44
375-95-1	Perfluorononanoic acid	2.7		1.8	0.44
335-76-2	Perfluorodecanoic acid	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	1.9	NJ	1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	0.74	J	1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid	3.0		1.8	0.44
2991-50-6	NEtFOSAA	ND		2.7	0.44
2355-31-9	NMeFOSAA	ND		1.8	0.53
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.44
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.44
375-22-4	Perfluorobutanoic acid	18		4.4	1.8
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid	ND		1.8	0.44
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.4	1.8
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.7	0.89
2706-90-3	Perfluoropentanoic acid	4.7		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: Dup-042722 Lab Sample ID: 410-82166-7

Matrix: Water Lab File ID: 22MAY12-42.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 00:00

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 282.7(mL) Date Analyzed: 05/12/2022 23:57

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	8.5		1.8	0.44
375-85-9	Perfluoroheptanoic acid	2.1	NJ	1.8	0.44
335-67-1	Perfluorooctanoic acid	4.7		1.8	0.44
375-95-1	Perfluorononanoic acid	ND		1.8	0.44
335-76-2	Perfluorodecanoic acid	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	120		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid	1.8		1.8	0.44
2991-50-6	NEtFOSAA	ND		2.7	0.44
2355-31-9	NMeFOSAA	ND		1.8	0.53
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.44
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.44
375-22-4	Perfluorobutanoic acid	6.8		4.4	1.8
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid	ND		1.8	0.44
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.4	1.8
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.7	0.88
2706-90-3	Perfluoropentanoic acid	11		1.8	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: EB-042722 Lab Sample ID: 410-82166-8

Matrix: Water Lab File ID: 22MAY12-43.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 14:50

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 277.1(mL) Date Analyzed: 05/13/2022 00:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1.8	0.45
375-85-9	Perfluoroheptanoic acid	ND		1.8	0.45
335-67-1	Perfluorooctanoic acid	ND		1.8	0.45
375-95-1	Perfluorononanoic acid	ND		1.8	0.45
335-76-2	Perfluorodecanoic acid	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid	ND		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.45
1763-23-1	Perfluorooctanesulfonic acid	ND		1.8	0.45
2991-50-6	NEtFOSAA	ND		2.7	0.45
2355-31-9	NMeFOSAA	ND		1.8	0.54
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.45
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.45
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.45
375-22-4	Perfluorobutanoic acid	ND		4.5	1.8
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid	ND		1.8	0.45
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.5	1.8
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.7	0.90
2706-90-3	Perfluoropentanoic acid	ND		1.8	0.45

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Client Sample ID: AB-042722 Lab Sample ID: 410-82166-9

Matrix: Water Lab File ID: 22MAY12-81.d

Analysis Method: 537 IDA Date Collected: 04/27/2022 15:00

Extraction Method: 537 IDA Date Extracted: 05/11/2022 10:09

Sample wt/vol: 291.3(mL) Date Analyzed: 05/13/2022 07:10

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 6(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 254704 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1.7	0.43
375-85-9	Perfluoroheptanoic acid	ND		1.7	0.43
335-67-1	Perfluorooctanoic acid	ND		1.7	0.43
375-95-1	Perfluorononanoic acid	ND		1.7	0.43
335-76-2	Perfluorodecanoic acid	ND		1.7	0.43
72629-94-8	Perfluorotridecanoic acid	ND		1.7	0.43
376-06-7	Perfluorotetradecanoic acid	ND		1.7	0.43
375-73-5	Perfluorobutanesulfonic acid	ND		1.7	0.43
355-46-4	Perfluorohexanesulfonic acid	ND		1.7	0.43
1763-23-1	Perfluorooctanesulfonic acid	ND		1.7	0.43
2991-50-6	NEtFOSAA	ND		2.6	0.43
2355-31-9	NMeFOSAA	ND		1.7	0.51
375-92-8	Perfluoroheptanesulfonic acid	ND		1.7	0.43
335-77-3	Perfluorodecanesulfonic acid	ND		1.7	0.43
754-91-6	Perfluorooctanesulfonamide	ND		1.7	0.43
375-22-4	Perfluorobutanoic acid	ND		4.3	1.7
2058-94-8	Perfluoroundecanoic acid	ND		1.7	0.43
307-55-1	Perfluorododecanoic acid	ND		1.7	0.43
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.3	1.7
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.6	0.86
2706-90-3	Perfluoropentanoic acid	ND		1.7	0.43

ATTACHMENT B

SUPPORT DOCUMENTATION

410-82166 Chain of Custody

Chain of Custody Record

eurofins | Environment Testing

	Sampler: Chris French	Lab PM: Barnhart, Amanda	Carrier Tracking No(s):	COC No: 410-55203-15564 1
Client Contact: Mr. Chris French	Phone: 518-860-3855	E-Mail: Amanda.Barnhart@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: AECOM	PWSID:			Job #:
Address: 40 British American Blvd	Due Date Requested:			
City: Latham	TAT Requested (days): Standard			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone: 518-951-2204(Tel)	PO #: Purchase Order Requested			
Email: chris.french@aecom.com	WO #:			
Project Name: PFAS in Water	Project #: 41010488			
Site: DSI Poughkeepsie	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, 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)	PFC_IDA - NY 21 PFAS	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N	N		
MW-2N 042722	4/27/22	1125	G	W	N	X		
MW-1 042722		1235			Y			Extra volume collected for MS/MSD
DSI-1 042722		1305						
DSI-3 042722		1425						
DSI-6 042722		1425						
DSI-4 042722		1457						
Dup-042722		—						
EB-042722		1450						
AB-042722	↓	1500	↓	↓	↓	↓		

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: Chris French	Date/Time: 04-25-22 1400	Company: AECOM	Received by:		Date/Time: 4/28/22 1500	Company: AECOM	
Relinquished by:	Date/Time: 4/27/22 1615	Company: AECOM	Received by:		Date/Time: 4/27/2022 1645	Company: ESM	
Relinquished by:	Date/Time: 4/28/22 1700	Company: ESM	Received by:		Date/Time: 4/29/22 1053	Company: ESM	
Custody Seals Intact: X Yes Δ No	Custody Seal No.: 200873		Cooler Temperature(s) °C and Other Remarks:		1.9°C		

Ver: 01/16/2019

Job Narrative
410-82166-1

Receipt
The samples were received on 4/29/2022 10:13 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 time was 1.9°C

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s) in the following samples: MW-2N 042722 (410-82166-1), DSI-1 042722 (410-82166-3), Dup-042722 (410-82166-7) and EB-042722 (410-82166-8) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) in the following sample: DSI-3 042722 (410-82166-4) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for labeled isotope(s) was within QC acceptance limits. However, target analytes were detected in the re-extracted method blank.

Method PFC_IDA: The recovery for labeled isotope: d5-NEtFOSAA is outside the QC acceptance limits in the opening and closing continuing calibration verification standards. Since the recovery for the labeled isotope is within QC limits in the following sample(s): AB-042722 (410-82166-9), the data is reported.

Method PFC_IDA: The recovery for the injection standard peak area(s) and the sample labeled isotope(s) is outside of QC acceptance limits for the following sample: DSI-4 042722 (410-82166-6). The following action was taken: This sample was re-extracted within the method holding time and the recovery for the injection standard peak area(s) was within the QC acceptance limits. However, the sample labeled isotope(s) was again outside of QC acceptance limits and target analyte(s) were detected in the re-extracted method blank.

Method PFC_IDA: The recovery for the injection standard peak area(s) and the sample labeled isotope(s) is outside of QC acceptance limits for the following sample: DSI-6 042722 (410-82166-5). The following action was taken: This sample was re-extracted within the method holding time and the recovery for the injection standard peak area(s) was within the QC acceptance limits. However, the sample labeled isotope(s) was again outside of QC acceptance limits and target analyte(s) were detected in the re-extracted method blank.

Method PFC_IDA: The recovery for labeled isotope(s) in the background sample: MW-1 042722 (410-82166-2) is within of QC acceptance limits. However, the recovery for the labeled isotope(s) in the associated matrix spike and matrix spike duplicate samples is outside of the QC acceptance limits.

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

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-82166-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	13C5PHA #	C3PFHS #	C4PFHA #	M262FTS #	C8PFOA #
MW-2N 042722	410-82166-1	114 cn	87 cn	112 cn	108 cn	163 cn	140 cn	430 *5+ cn	116 cn
MW-1 042722	410-82166-2	128 cn	139 cn	144 cn	141 cn	134 cn	139 cn	166 cn	121 cn
DSI-1 042722	410-82166-3	119 cn	148 cn	167 cn	107 cn	130 cn	130 cn	249 *5+ cn	115 cn
DSI-3 042722	410-82166-4	127 cn	162 cn	232 *5+ cn	109 cn	153 cn	143 cn	387 *5+ cn	133 cn
DSI-6 042722	410-82166-5	108 cn	124 cn	180 cn	86 cn	125 cn	121 cn	349 *5+ cn	109 cn
DSI-4 042722	410-82166-6	78 cn	97 cn	286 *5+ cn	61 cn	270 *5+ cn	162 cn	1084 *5+ cn	132 cn
Dup-042722	410-82166-7	124 cn	96 cn	117 cn	109 cn	149 cn	132 cn	424 *5+ cn	119 cn
EB-042722	410-82166-8	125 cn	188 *5+ cn	180 cn	120 cn	137 cn	130 cn	153 cn	121 cn
AB-042722	410-82166-9	126	134	126	119	126	121	131	117
	MB 410-253970/1-A	118	121	115	126	117	119	137	112
	LCS 410-253970/2-A	115	111	106	121	126	122	131	114
MW-1 042722 MS MS	410-82166-2 MS	146	159	151	169	159	157	203 *5+	143
MW-1 042722 MSD MSD	410-82166-2 MSD	128	151	142	151	138	154	165	125

	QC LIMITS
PFBA = 13C4 PFBA	42-165
PFPeA = 13C5 PFPeA	38-187
C3PFBS = 13C3 PFBS	16-200
13C5PHA = 13C5 PFHxA	24-179
C3PFHS = 13C3 PFHxS	28-188
C4PFHA = 13C4 PFHpA	31-182
M262FTS = M2-6:2 FTS	17-200
C8PFOA = 13C8 PFOA	48-162

Column to be used to flag recovery values

FORM II 537 IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-82166-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	C8PFOS #	C9PFNA #	C6PFDA #	M282FTS #	PFOSA #	d3NMFOS #	13C7PUA #	d5NEFOS #
MW-2N 042722	410-82166-1	119 cn	131 cn	96 cn	273 *5+ cn	17 cn	132 cn	110 cn	132 cn
MW-1 042722	410-82166-2	133 cn	141 cn	113 cn	106 cn	107 cn	161 cn	136 cn	163 cn
DSI-1 042722	410-82166-3	126 cn	141 cn	111 cn	142 cn	10 cn	143 cn	113 cn	130 cn
DSI-3 042722	410-82166-4	110 cn	155 cn	105 cn	177 cn	48 cn	109 cn	53 cn	104 cn
DSI-6 042722	410-82166-5	117 cn	128 cn	95 cn	232 *5+ cn	56 cn	127 cn	106 cn	142 cn
DSI-4 042722	410-82166-6	129 cn	126 cn	94 cn	343 *5+ cn	58 cn	123 cn	125 cn	166 cn
Dup-042722	410-82166-7	121 cn	143 cn	111 cn	263 *5+ cn	55 cn	135 cn	112 cn	150 cn
EB-042722	410-82166-8	129 cn	135 cn	113 cn	108 cn	106 cn	155 cn	117 cn	148 cn
AB-042722	410-82166-9	118	126	121	95	105	155	130	162 cn
	MB 410-253970/1-A	124	127	120	103	111	167	131	166
	LCS 410-253970/2-A	117	131	114	97	97	151	124	146
MW-1 042722 MS MS	410-82166-2 MS	151	165	126	116	116	182 *5+	133	162
MW-1 042722 MSD MSD	410-82166-2 MSD	132	136	126	120	121	182 *5+	139	175

	QC LIMITS
C8PFOS = 13C8 PFOS	51-159
C9PFNA = 13C9 PFNA	51-167
C6PFDA = 13C6 PFDA	49-163
M282FTS = M2-8:2 FTS	33-200
PFOSA = 13C8 FOSA	10-168
d3NMFOS = d3-NMeFOSAA	31-174
13C7PUA = 13C7 PFUnA	34-174
d5NEFOS = d5-NEtFOSAA	29-195

Column to be used to flag recovery values

FORM II 537 IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-82166-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFDoDA #	PFTDA #
MW-2N 042722	410-82166-1	118 cn	127 cn
MW-1 042722	410-82166-2	122 cn	114 cn
DSI-1 042722	410-82166-3	106 cn	100 cn
DSI-3 042722	410-82166-4	13 *5-cn	0.9 *5-cn
DSI-6 042722	410-82166-5	96 cn	75 cn
DSI-4 042722	410-82166-6	108 cn	81 cn
Dup-042722	410-82166-7	116 cn	111 cn
EB-042722	410-82166-8	115 cn	120 cn
AB-042722	410-82166-9	125	132
	MB 410-253970/1-A	123	128
	LCS 410-253970/2-A	113	119
MW-1 042722 MS MS	410-82166-2 MS	126	134
MW-1 042722 MSD MSD	410-82166-2 MSD	141	135

	QC LIMITS
PFDoDA = 13C2-PFDoDA	17-176
PFTDA = 13C2 PFTeDA	10-179

Column to be used to flag recovery values

FORM II 537 IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-82166-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	13C5PHA #	C4PFHA #	C3PFHS #	M262FTS #	C8PFOA #
DSI-3 042722 RE	410-82166-4 RE	94	107	116	98	97	93	137	93
DSI-6 042722 RE	410-82166-5 RE	94	106	116	106	105	105	163	99
DSI-4 042722 RE	410-82166-6 RE	67	96	155	61	75	112	230 *5+	79
	MB 410-252952/1-A	62	62	59	64	62	63	71	62
	LCS 410-252952/3-A	77	78	78	73	78	80	83	77

	QC LIMITS
PFBA = 13C4 PFBA	42-165
PFPeA = 13C5 PFPeA	38-187
C3PFBS = 13C3 PFBS	16-200
13C5PHA = 13C5 PFHxA	24-179
C4PFHA = 13C4 PFHpA	31-182
C3PFHS = 13C3 PFHxS	28-188
M262FTS = M2-6:2 FTS	17-200
C8PFOA = 13C8 PFOA	48-162

Column to be used to flag recovery values

FORM II 537 IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-82166-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	C8PFOS #	C9PFNA #	C6PFDA #	M282FTS #	PFOSA #	d3NMFOS #	13C7PUA #	d5NEFOS #
DSI-3 042722 RE	410-82166-4 RE	90	101	90	106	66	94	85	86
DSI-6 042722 RE	410-82166-5 RE	98	101	92	130	68	105	100	102
DSI-4 042722 RE	410-82166-6 RE	83	84	88	132	41	90	92	113
	MB 410-252952/1-A	65	69	62	65	46	60	61	53
	LCS 410-252952/3-A	78	84	74	84	56	79	76	71

	QC LIMITS
C8PFOS = 13C8 PFOS	51-159
C9PFNA = 13C9 PFNA	51-167
C6PFDA = 13C6 PFDA	49-163
M282FTS = M2-8:2 FTS	33-200
PFOSA = 13C8 FOSA	10-168
d3NMFOS = d3-NMeFOSAA	31-174
13C7PUA = 13C7 PFUnA	34-174
d5NEFOS = d5-NEtFOSAA	29-195

Column to be used to flag recovery values

FORM II 537 IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-82166-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFDoDA #	PFTDA #
DSI-3 042722 RE	410-82166-4 RE	81	81
DSI-6 042722 RE	410-82166-5 RE	91	79
DSI-4 042722 RE	410-82166-6 RE	90	80
	MB 410-252952/1-A	57	64
	LCS 410-252952/3-A	72	70

	QC LIMITS
PFDoDA = 13C2-PFDoDA	17-176
PFTDA = 13C2 PFTeDA	10-179

Column to be used to flag recovery values

FORM II 537 IDA

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-82166-1

SDG No.:

Instrument ID: 27632 Calibration Start Date: 05/10/2022 13:41

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 05/10/2022 14:47

Calibration ID: 37941

		13C3PFBA		13PFOA		PFOS	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1738217	3.40	1909157	4.96	781043	5.30
UPPER LIMIT		2607326	3.80	2863736	5.36	1171565	5.70
LOWER LIMIT		869109	3.00	954579	4.56	390522	4.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-253526/8		1599356	3.40	1804971	4.95	699538	5.29
ICV 410-253526/9		1959877	3.41	2273742	4.97	863134	5.30
CCV 410-254704/29		1631813	3.38	1648216	4.94	716477	5.28
MB 410-253970/1-A		1681553	3.39	1897849	4.95	739315	5.29
LCS 410-253970/2-A		1794035	3.40	1904168	4.95	760140	5.30
410-82166-1	MW-2N 042722	1098774	3.39	1171589	4.95	628708	5.29
410-82166-2	MW-1 042722	1607277	3.40	2099872	4.95	740791	5.29
410-82166-2 MS	MW-1 042722 MS MS	1336720	3.40	1650900	4.95	641598	5.29
410-82166-2 MSD	MW-1 042722 MSD MSD	1574369	3.40	1979416	4.96	745872	5.30
410-82166-3	DSI-1 042722	1129588	3.40	2104047	4.95	772805	5.29
410-82166-4	DSI-3 042722	714064*3	3.39	1753775	4.95	658670	5.29
410-82166-5	DSI-6 042722	779685*3	3.39	1824685	4.95	781087	5.29
410-82166-6	DSI-4 042722	290156*3	3.38	605766*3	4.95	598699	5.29
410-82166-7	Dup-042722	1204428	3.39	1491067	4.94	697845	5.28
410-82166-8	EB-042722	1182159	3.40	1954277	4.95	747204	5.29
CCV 410-254704/44		1665685	3.39	1863539	4.95	683148	5.29
CCV 410-254704/80		1646120	3.39	1841661	4.95	661602	5.30
410-82166-9	AB-042722	1664470	3.40	1930159	4.95	721997	5.30
CCV 410-254704/81		1670111	3.39	1844666	4.95	707340	5.29

13C3PFBA = 13C3-PFBA
13PFOA = 13C2 PFOA
PFOS = 13C4 PFOS

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 IDA

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-82166-1

SDG No.:

Instrument ID: 30731 Calibration Start Date: 05/10/2022 10:44

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 05/10/2022 11:51

Calibration ID: 37916

		13C3PFBA		13PFOA		PFOS	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		859967	3.85	989015	5.67	1024313	5.99
UPPER LIMIT		1289951	4.25	1483523	6.07	1536470	6.39
LOWER LIMIT		429984	3.45	494508	5.27	512157	5.59
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-253329/8		911694	3.84	1148155	5.66	1086960	5.98
ICV 410-253329/9		981744	3.84	1220671	5.65	1200508	5.97
CCV 410-253572/1		896351	3.85	1033982	5.66	1038613	5.98
MB 410-252952/1-A		1183913	3.86	1430352	5.67	1378958	5.99
LCS 410-252952/3-A		996994	3.84	1272345	5.65	1214363	5.97
410-82166-4 RE	DSI-3 042722 RE	864665	3.82	1229109	5.64	1208462	5.97
410-82166-6 RE	DSI-4 042722 RE	453793	3.84	800313	5.65	1054158	5.98
CCV 410-253572/15		692660	3.84	817177	5.65	815001	5.98

13C3PFBA = 13C3-PFBA
13PFOA = 13C2 PFOA
PFOS = 13C4 PFOS

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 IDA

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-82166-1

SDG No.:

Instrument ID: 30731 Calibration Start Date: 05/10/2022 10:44

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 05/10/2022 11:51

Calibration ID: 37916

		PFDA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1291271	6.31				
UPPER LIMIT		1936907	6.71				
LOWER LIMIT		645636	5.91				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-253329/8		1450982	6.31				
ICV 410-253329/9		1579854	6.30				
CCV 410-253572/1		1426764	6.30				
MB 410-252952/1-A		1891072	6.32				
LCS 410-252952/3-A		1589163	6.30				
410-82166-4 RE	DSI-3 042722 RE	1650968	6.29				
410-82166-6 RE	DSI-4 042722 RE	1349828	6.30				
CCV 410-253572/15		1089913	6.30				

PFDA = 13C2 PFDA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 IDA

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-82166-1

SDG No.:

Lab File ID: 22MAY10-34.d Lab Sample ID: MB 410-252952/1-A

Matrix: Water Date Extracted: 05/09/2022 08:14

Instrument ID: 30731 Date Analyzed: 05/10/2022 14:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-252952/3-A	22MAY10-36.d	05/10/2022 14:52
DSI-3 042722 RE	410-82166-4 RE	22MAY10-44.d	05/10/2022 16:20
DSI-4 042722 RE	410-82166-6 RE	22MAY10-46.d	05/10/2022 16:43

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-82166-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-252952/1-A

Matrix: Water
Lab File ID: 22MAY10-34.d

Analysis Method: 537 IDA
Date Collected:

Extraction Method: 537 IDA
Date Extracted: 05/09/2022 08:14

Sample wt/vol: 250(mL)
Date Analyzed: 05/10/2022 14:30

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 3(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 253572
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	*Perfluorohexanoic acid*	*ND*		*2.0*	*0.50*
375-85-9	*Perfluoroheptanoic acid*	*ND*		*2.0*	*0.50*
335-67-1	*Perfluorooctanoic acid*	*ND*		*2.0*	*0.50*
375-95-1	*Perfluorononanoic acid*	*ND*		*2.0*	*0.50*
335-76-2	*Perfluorodecanoic acid*	*ND*		*2.0*	*0.50*
72629-94-8	*Perfluorotridecanoic acid*	*ND*		*2.0*	*0.50*
376-06-7	*Perfluorotetradecanoic acid*	*ND*		*2.0*	*0.50*
375-73-5	*Perfluorobutanesulfonic acid*	*ND*		*2.0*	*0.50*
355-46-4	*Perfluorohexanesulfonic acid*	*ND*		*2.0*	*0.50*
1763-23-1	*Perfluorooctanesulfonic acid*	*0.858*	*J*	*2.0*	*0.50*
2991-50-6	*NEtFOSAA*	*ND*		*3.0*	*0.50*
2355-31-9	*NMeFOSAA*	*ND*		*2.0*	*0.60*
375-92-8	*Perfluoroheptanesulfonic acid*	*ND*		*2.0*	*0.50*
335-77-3	*Perfluorodecanesulfonic acid*	*ND*		*2.0*	*0.50*
754-91-6	*Perfluorooctanesulfonamide*	*ND*		*2.0*	*0.50*
375-22-4	*Perfluorobutanoic acid*	*ND*		*5.0*	*2.0*
2058-94-8	*Perfluoroundecanoic acid*	*ND*		*2.0*	*0.50*
307-55-1	*Perfluorododecanoic acid*	*ND*		*2.0*	*0.50*
27619-97-2	*6:2 Fluorotelomer sulfonic acid*	*ND*		*5.0*	*2.0*
39108-34-4	*8:2 Fluorotelomer sulfonic acid*	*ND*		*3.0*	*1.0*
2706-90-3	*Perfluoropentanoic acid*	*ND*		*2.0*	*0.50*