April 25, 2025

Ms. Megan Kuczka
NYSDEC - Region 9
700 Delaware Avenue
Buffalo, NY 14209

Re: **2024 Groundwater Sampling**
NYSDEC Site No. 915145
Lehigh Industrial Park
31 South Street, Lackawanna, NY, 14219
LaBella Project #2234026.127

Dear Ms. Kuczka,

LaBella Associates, D.P.C. ("LaBella") is pleased to submit this letter summarizing the Groundwater sampling activities for the property located at 31 South Street, Lackawanna, 14218, Erie County, New York, hereinafter referred to as the "Site."

FIELD ACTIVITIES

On October 21, 2024, LaBella personnel conducted groundwater sampling from two monitoring wells (MW-2 and MW-4) at the Lehigh Industrial Park (site). A site map is presented as **Figure 1,** and the locations of MW-2 and MW-4 are presented in **Figure 2.** The monitoring wells were sampled using low-flow methodology with a peristaltic pump and dedicated high density polyethylene (HDPE) tubing. A multi-parameter instrument (YSI) was used to measure certain groundwater stabilization criteria (e.g., pH, temperature, dissolved oxygen, turbidity) to confirm that sample collection could begin. The groundwater sampling logs are presented in **Appendix 1**. The requested laboratory analysis consisted of Per- and Polyfluorinated Alkyl Substances (PFAS) via EPA Method 1633 (DRAFT), Target Analyte List (TAL) Metals via EPA Methods 6010/7470, and Polychlorinated biphenyls (PCBs) via EPA Method 8082. All sample coolers were packed with ice and shipped under chain of custody to Con-Test, a Pace Analytical Laboratory (Con-Test) in East Longmeadow, Massachusetts. PFAS samples were stored in dedicated coolers, separate from the other samples. LaBella followed a strict emerging contaminants sampling protocol which included not eating or drinking while on-site and not applying sunscreen or cosmetic products on the sampling day. Emerging contaminants protocol also require the sampler to wear well laundered clothes without the use of fabric softeners. No Teflon containing materials, field notebooks or sharpie markers were permitted on-site.

RESULTS

The analytical results were received from Con-Test on November 6, 2024. Sample results are reflected in Table 1. Results for metals and PCBs were compared to guidance values from the Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1. The analytical data for PFAS was compared to the NYSDEC Guidelines for Sampling and Analysis of PFAS, April 2023; NYSDEC TOGS 1.1.1 AWQS (February 2023 updates). A complete analytical package is presented as **Appendix 2**.

Based on the analytical results, iron, magnesium and sodium were detected at concentrations exceeding their respective NYSDEC TOGS AWQS in the groundwater sample collected from MW-2 during the most recent sampling event. Iron, magnesium and manganese were detected at concentrations exceeding their respective NYSDEC TOGS AWQS in the groundwater sample collected from MW-4. PCBs were not detected in the groundwater samples collected from MW-2 and MW-4, and such have not been detected in groundwater samples collected from these wells since September 2022. While metals concentrations in groundwater have fluctuated between sampling events, no sharp or dramatic increases indicative of a new release or area of concern were identified. Considering the relatively low concentrations of certain metals in groundwater, depth to groundwater, and the nature of the site (no groundwater use), the results are not considered a significant threat to human health or the environment.

Several PFAS compounds were detected in the groundwater samples collected from both MW-2 and MW-4, including the two PFAS compounds for which NYSDEC has established TOGS 1.1.1 AWGS (February 2023), Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS). The concentration of PFOA was 110 nanograms per liter (ng/L) for the sample taken at MW-2, 120 ng/L for the duplicate sample performed on MW-2, and 15 ng/L for the sample taken at MW-4, compared to regulatory criteria of 6.7 ng/L. The concentration of PFOS was 120 ng/L for the sample taken at MW-2, 150 ng/L for the duplicate sample performed on MW-2, and 19 ng/L for the sample taken at MW-4, compared to regulatory criteria of 2.7 ng/L. PFAS concentrations in groundwater have fluctuated between sampling events with a general increase in contaminant concentrations observed between 2020 and 2024. The change in PFAS concentrations may be attributable to several factors including sample turbidity, cross contamination, and advancements in laboratory analytical methods. Considering the depth to groundwater and nature of the site (no groundwater use), the results are not considered a significant threat to human health or the environment. The PFAS results for MW-2 and MW-4 are displayed in Table 1.

A data usability summary report (DUSR) was performed on the analytical results by Dataval Inc. and received on March 6, 2025. The results indicated the data was acceptable and no samples or data were rejected as unusable arising from quality control (QC) failures. A complete DUSR report is presented in **Appendix 3**.

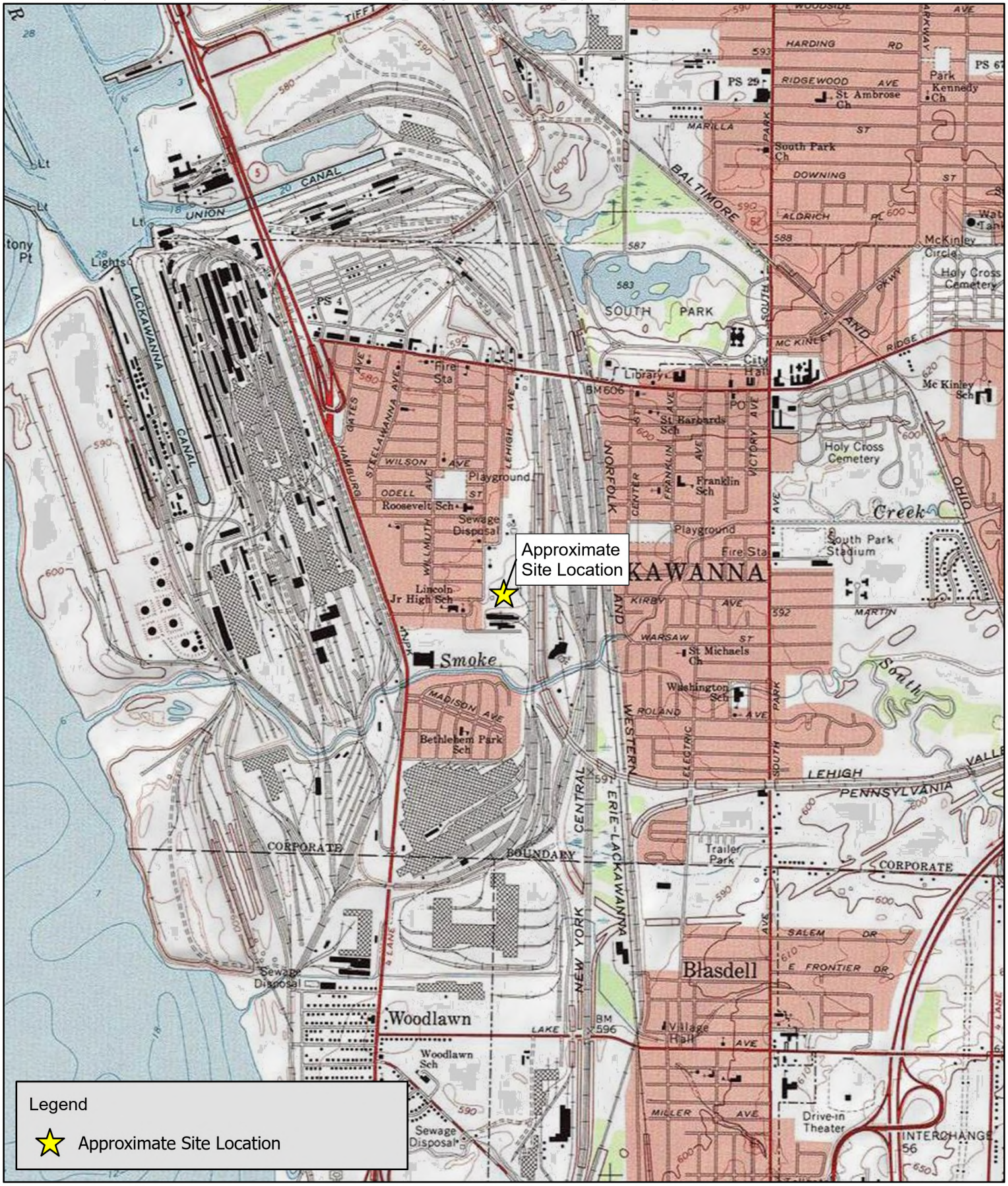
We appreciate the opportunity to serve your environmental needs. If you have any questions, please do not hesitate to contact me at 716-345-6709.

Respectfully submitted,

LABELLA ASSOCIATES, D.P.C.

Andy Janik

FIGURES



PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:
2234026.127 **Figure 1** 4/24/2025	Site Location Map	2024 Groundwater Sampling 31 South Street Lackawanna, NY

N

0 1,000 2,000 Feet

LaBella Powered by partnership.

Data Source: Bing, 2025; LaBella, 2025; Regrid, 2025

PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:
2234026.127 **Figure 2** 4/23/2025	Site Map	2024 Groundwater Sampling 31 South Street Lackawanna, NY

N

0 50 100 Feet

LaBella
Powered by partnership.

Data Source: Bing, 2025; LaBella, 2025; Regrid, 2025

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TABLES

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TABLE 1
Lehigh Industrial Park
2024 Annual Results
GROUNDWATER ANALYSIS SUMMARY
(Detected Analytes Only)

MONITORING LOCATIONS	MW-2	MW-2	MW-2	MW-2	MW-2	Field Duplicate MW-2	MW-4	MW-4	MW-4	MW-4	MW-4	NYSDEC Ambient Water Quality Standards and Guidance Values (1)	Units
Collection Date	9/30/2020	9/28/2021	9/12/2022 - 9/13/2022	11/8/2023	10/22/2024	10/22/2024	9/30/2020	9/28/2021	9/12/2022 - 9/13/2022	11/8/2023	10/22/2024		
Metals (Total)													
Aluminum	0.16 J	0.2 J	NA	1.3 J	0.038 J	-	-	5.3	-	21	0.55	0.043 J	0.31 J	NL	mg/L
Antimony	-	-	NA	0.0029 J	-	-	-	-	-	-	-	-	-	0.003	mg/L
Arsenic	-	-	NA	0.0014 J	-	-	-	-	-	0.011	-	-	-	0.025	mg/L
Barium	0.067	0.053	NA	0.066 J	0.042 J	0.044 J	0.044 J	0.11	0.076	0.49	0.086	0.07	0.078 J	1	mg/L
Beryllium	-	-	NA	0.0001 J	-	-	-	-	-	0.0047 J	0.00017 J	-	-	0.003	mg/L
Cadmium	-	-	NA	0.00045 J	-	-	-	-	-	0.0017	0.000032 J	-	-	0.005	mg/L
Calcium	152	144	NA	150	120	140 J	130 J	172	144	730	160	130	150 J	NL	mg/L
Chromium	0.0016 J	-	NA	0.011	-	-	0.0067 J	0.0076	-	0.05	0.0014	-	-	0.05	mg/L
Cobalt	0.0013 J	-	NA	0.0033 J	-	-	-	0.0019 J	-	0.029	0.001 J	-	-	NL	mg/L
Copper	0.0027 J	0.003 J	NA	0.022 J	-	-	-	0.021	0.0023 J	0.11	0.0057	-	-	0.2	mg/L
Iron	7.7	0.091	NA	29 J	1.2	0.84	2.1	5.9	0.085	47	1.0	0.027	0.68	0.3	mg/L
Lead	-	-	NA	0.0078 J	-	0.0083 J	0.0068 J	0.012	-	0.15	0.0021	-	0.009 J	0.025	mg/L
Magnesium	47.1	42.9	NA	46	44	44	43	47.3	44.2	110	45	38	39	35	mg/L
Manganese	0.098	0.006	NA	0.11 J	0.033	0.014	0.018	0.29	0.27	11	0.14	0.33	0.35	0.3	mg/L
Mercury	-	-	NA	0.000059 J	-	-	-	-	-	0.00004 J	-	-	-	0.0007	mg/L
Nickel	0.006 J	0.005 J	NA	0.021 J	0.0033 J	0.006 J	0.0068 J	0.0076 J	-	0.11	0.0093	0.0025 J	-	0.1	mg/L
Potassium	5.2	5.3	NA	5.7	5.6	5.6	5.5	6.3	4.0	9.7	5.8	5.9	6.5	NL	mg/L
Selenium	-	-	NA	0.0037 J	-	-	-	-	-	0.002 J	-	-	-	0.01	mg/L
Silver	-	-	NA	0.00013 J	-	-	-	-	-	0.00057	-	-	-	0.05	mg/L
Sodium	26.2	21.9	NA	28	22	20	20	9.5	8.5	12	10	9.6	8.2	20	mg/L
Thallium	-	-	NA	0.00028 J	-	-	-	-	-	0.0021	0.00025	-	-	0.0005	mg/L
Vanadium	-	-	NA	0.0035 J	-	-	-	0.0097	-	0.04	-	-	-	NL	mg/L
Zinc	0.029	0.0033 J	NA	0.21 J	-	-	0.0081 J	0.031	0.0027 J	0.29	0.0081 J	-	-	2	mg/L
Polychlorinated Biphenyls (PCBs) (µg/L)													
Total PCBs	-	0.65 J	0.26	1.0	-	-	-	-	0.33 J	2.3	-	-	-	0.09	µg/L
Per- and Polyfluoroalkyl Subsances (PFAS)													
Perfluorobutanoic acid (PFBA)	35	58	1.7 J	NA	13	25 J	28 J	-	1.3 J	3.1 J	2.3 J	2.0	- UJ	NL	ng/L
Perfluoropentanoic acid (PFPeA)	21	50	2.7 J	NA	14	14 J	15 J	-	-	-	3.6 J	4.0	- UJ	NL	ng/L
Perfluorohexanoic acid (PFHxA)	22	39	3.1	NA	12	-	-	-	0.73 J	-	-	3.9	-	NL	ng/L
Perfluoroheptanoic acid (PFHpA)	15	15	1.2 J	NA	19	21	22	0.42 J	1.1 J	1.9 J	1.4 J	4.4	1.7 J	NL	ng/L
Perfluorooctanoic acid (PFOA)	81	42	4.9 J	NA	110	110	120	4.3	13	16 J	11 J	19 J	15 J	6.7	ng/L
Perfluorononanoic acid (PFNA)	1.6 J	0.5 J	0.36 J	NA	3.4	2.7	2.6	-	-	-	-	-	- UJ	NL	ng/L
Perfluorodecanoic acid (PFDA)	-	-	-	NA	-	-	0.43 J	-	-	-	-	-	0.25 J	NL	ng/L
Perfluorobutanesulfonic acid (PFBS)	2.7	1.6 J	1.8 J	NA	5.7	3.1 J	5 J	0.73 J	1.6 J	1.9 J	3.3 J	2.0	1.8 J	NL	ng/L
Perfluorohexanesulfonic acid (PFHxS)	16	5.6	2.1	NA	15	11	13 J	-	1.9	-	-	3.1	1.8 J	NL	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	2.6	0.81 J	-	NA	3.7	2.3	2.9	-	-	-	-	-	-	NL	ng/L
Perfluorooctanesulfonic acid (PFOS)	82	27	5.7	NA	110	120	150 J	1.4 J	4.7	8.5	4.2 J	23	19 J	2.7	ng/L
Perfluoropentanesulfonic Acid (PFPeS)	NA	NA	NA	NA	NA	2.4	2.6 J	NA	NA	NA	NA	NA	-	NL	ng/L
Total Suspended Solids	NA	NA	NA	NA	NA	18	24	NA	NA	NA	NA	NA	34	NL	ng/L
PFOA/PFOS, Total	278.9	239.5	23.56	NA	305.8	311.5	361.5	6.9	24.3	31.4	28.6	61.4	75.25	500**	ng/L

mg/L = milligrams per liter
ng/L = nanograms per liter
µg/L = micrograms per liter
NA - Not Analyzed
NL - Indictes that no regulatory value is listed within the NYSDEC TOGS Water Quality Standards
UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
J - Indicates the value is an estimate
"-" - Indicates the analyte concentration is below the Method Detection Limit (non-detect)
(1) Regulatory values are from NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations dated June 1998.

=Value exceeds or equals NYSDEC TOGS standard

PFAS Guidance Values = NYSDEC Guidelines for Sampling and Analysis of PFAS, November 2022; NYSDEC TOGS 1.1.1 AWQS (February 2023 updates)
** NYSDEC Guidelines for Sampling and Analysis of Per- and Polyfluroroalkyl Substances (PFAS), April 2023

APPENDIX 1

Field Logs

LaBella

300 Pearl Street, Suite 130
Buffalo, New York 14202
Telephone: (716)-551-6281

Project Name: Lehigh Industrial Park
Location: Lackawanna NY
Project No.: 2234026.127
Sampled By: B. Sasuda
Date: 10/21/24
Weather: Sunny

WELL I.D.: MW-02

WELL SAMPLING INFORMATION

Well Diameter: 2"
Depth of Well: 22.42'
Measuring Point: TOP of PVC
Pump Type: Peristaltic

Static Water Level: 19.36'
Length of Well Screen:
Depth to Top of Pump:
Tubing Type: HDPE 1/4 in

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
0955	150	0	14.2	1.36	0.852	6.97	-23.6	10.39	19.36		
1000		0.2	14.0	1.21	0.845	7.01	-75.5	6.75	19.61		
1005		0.4	14.0	1.09	0.817	6.99	-67.0	2.35	19.97		
1010		0.6	14.0	0.96	0.815	6.98	-58.8	2.14	20.39		
1015		0.8	14.0	0.79	0.810	6.98	-52.8	0.83	20.81		
1020	150	1.0	14.1	0.69	0.807	6.98	-49.9	0.78	20.77		

Total 1.0 Gallons Purged

Purge Time Start: 0955 Purge Time End: 1020 Final Static Water Level: 21.68

OBSERVATIONS

~~MW-03~~

MW-02 sampled @ 1020
Dup Sampled @ 1045

* Lock was cut to access well
* No PVC cap on well

LaBella

300 Pearl Street, Suite 130
Buffalo, New York 14202
Telephone: (716)-551-6281

Project Name: LeHigh Industrial Park
Location: Lackawanna NY
Project No.: 2234026.127
Sampled By: B. Sabuda
Date: 10/21/24
Weather: Sunny

WELL I.D.: MW-04

WELL SAMPLING INFORMATION

Well Diameter: 2"
Depth of Well: 16.98
Measuring Point: Top of PVC
Pump Type: Peristaltic

Static Water Level: 14.30
Length of Well Screen:
Depth to Top of Pump:
Tubing Type: HDPE 1/4 in

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
1120	150	0	17.1	3.87	0.827	7.08	74.3	50.61	14.30		-Sand in Tubing
1125		0.2	16.6	3.91	0.819	7.05	73.1	5.07	14.88		
1130		0.4	16.5	3.94	0.816	7.04	73.1	1.01	15.13		
1135		0.6	16.5	3.97	0.813	7.04	74.1	1.72	15.39		
1140		0.8	16.6	4.06	0.814	7.04	75.4	0.16	15.56		
1145		1.0	16.6	3.89	0.811	7.03	75.9	0.28	15.71		
1150		1.2	16.6	3.74	0.811	7.02	75.9	0.19	15.89		
1155		1.4	16.7	3.69	0.810	7.02	76.0	0.24	16.07		
1200	150	1.6	16.7	3.66	0.810	7.01	76.0	0.13	16.24		

Total 1.6 Gallons Purged

Purge Time Start: 1120 Purge Time End: 1200 Final Static Water Level:

OBSERVATIONS

MW-04 Sampled @ 1215 *Lock had to be cut to access well
MS/MSD taken
- well purged dry @ 1240, returned @ 1340 to complete (PCB/metal)

APPENDIX 2

Laboratory Analytical Report

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

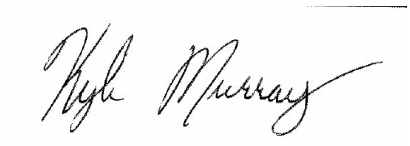
November 6, 2024

Megan Kuczka
NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020

Project Location: Lackawanna, NY
Client Job Number:
Project Number: 915145
Laboratory Work Order Number: 24J3097

Enclosed are results of analyses for samples as received by the laboratory on October 22, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020
ATTN: Megan Kuczka

REPORT DATE: 11/6/2024

PURCHASE ORDER NUMBER: 152390

PROJECT NUMBER: 915145

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J3097

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Lackawanna, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-2_20241021	24J3097-01	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8082A	
MW-4_20241021	24J3097-02	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8082A	
DUP_20241021	24J3097-03	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8082A	
Equipment Blank	24J3097-04	Equipment Blank Water		Draft Method 1633	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

1,4 Dioxane circled on COC by mistake, not needed per client.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Perfluoro-3-methoxypropanoic acid (PFMPA)
B390328-MS1, B390328-MSD1

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
B390328-MS1, B390328-MSD1

4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
B390328-MS1, B390328-MSD1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
24J3097-01[MW-2_20241021], 24J3097-03[DUP_20241021]

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
24J3097-01[MW-2_20241021], 24J3097-03[DUP_20241021]

PF-18

Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
24J3097-02[MW-4_20241021], B390328-MSD1

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
24J3097-02[MW-4_20241021], B390328-MSD1

PF-22

Qualifier ion ratio >150% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluoropentanoic acid (PFPeA)
24J3097-03[DUP_20241021]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C2-PFTeDA
S113199-CCV3

Perfluorotetradecanoic acid (PFTeDA)
S113199-CCV3

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

11Cl-PF3OUdS (F53B Major)
B390328-BLK1, B390328-BS1, B390328-MRL1, B390328-MS1, B390328-MSD1, S113199-CCV3

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
24J3097-01[MW-2_20241021], 24J3097-02[MW-4_20241021], 24J3097-03[DUP_20241021], 24J3097-04[Equipment Blank], S113309-CCV4

3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTC
24J3097-01[MW-2_20241021], 24J3097-02[MW-4_20241021], 24J3097-03[DUP_20241021], 24J3097-04[Equipment Blank], S113309-CCV4

SW-846 6010D

Qualifications:

con-test®
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MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Calcium

24J3097-02[MW-4_20241021], B390832-MS1, B390832-MSD1

MS-22

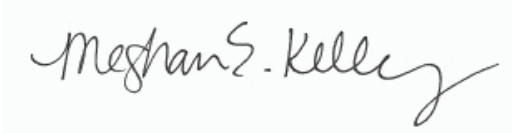
Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aluminum

24J3097-02[MW-4_20241021], B390832-MS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021 | Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	25	3.9	2.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluoropentanoic acid (PFPeA)	14	1.9	0.42	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorohexanoic acid (PFHxA)	23	0.97	0.23	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluoroheptanoic acid (PFHpA)	21	0.97	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorooctanoic acid (PFOA)	110	0.97	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorononanoic acid (PFNA)	2.7	0.97	0.18	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorodecanoic acid (PFDA)	ND	0.97	0.20	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.97	0.20	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.97	0.19	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.97	0.29	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.97	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorobutanesulfonic acid (PFBS)	3.1	0.97	0.21	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.4	0.97	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorohexanesulfonic acid (PFHxS)	11	0.97	0.27	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluoroheptanesulfonic acid (PFHpS)	2.3	0.97	0.32	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorooctanesulfonic acid (PFOS)	120	0.97	0.37	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.97	0.24	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.97	0.28	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.97	0.28	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.72	ng/L	1	PF-17	Draft Method 1633	10/29/24	11/2/24 16:28	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	2.9	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.97	0.22	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.97	0.32	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.97	0.33	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.97	0.35	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.97	0.39	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.7	2.6	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.7	2.6	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.80	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.93	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.9	1.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.7	2.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	11	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 16:28	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	9.2	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.34	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.54	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021 | Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:28	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	18.9		10-130		11/2/24 16:28
13C5-PFPeA	56.6		35-150		11/2/24 16:28
13C5-PFHxA	72.9		55-150		11/2/24 16:28
13C4-PFHpA	76.5		55-150		11/2/24 16:28
13C8-PFOA	77.3		60-140		11/2/24 16:28
13C9-PFNA	74.1		55-140		11/2/24 16:28
13C6-PFDA	72.6		50-140		11/2/24 16:28
13C7-PFUnA	69.0		30-140		11/2/24 16:28
13C2-PFDoA	56.7		10-150		11/2/24 16:28
13C2-PFTeDA	54.8		10-130		11/2/24 16:28
13C3-PFBS	86.8		55-150		11/2/24 16:28
13C3-PFHxS	77.3		55-150		11/2/24 16:28
13C8-PFOS	75.1		45-140		11/2/24 16:28
13C2-4:2FTS	**226**	*	60-200	PF-17	11/2/24 16:28
13C2-6:2FTS	168		60-200		11/2/24 16:28
13C2-8:2FTS	100		50-200		11/2/24 16:28
13C8-PFOSA	62.9		30-130		11/2/24 16:28
D3-NMeFOSA	56.5		15-130		11/2/24 16:28
D5-NEtFOSA	55.6		10-130		11/2/24 16:28
D3-NMeFOSAA	76.3		45-200		11/2/24 16:28
D5-NEtFOSAA	71.0		10-200		11/2/24 16:28
D7-NMeFOSE	55.4		10-150		11/2/24 16:28
D9-NEtFOSE	55.2		10-150		11/2/24 16:28
13C3-HFPO-DA	64.4		25-160		11/2/24 16:28

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021 | Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1221 [1]	ND	0.19	0.097	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1232 [1]	ND	0.19	0.087	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1248 [1]	ND	0.19	0.088	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1254 [1]	ND	0.19	0.098	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1260 [2]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1262 [1]	ND	0.19	0.077	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1268 [1]	ND	0.19	0.071	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		10/30/24 14:51
Decachlorobiphenyl [2]	79.1	30-150		10/30/24 14:51
Tetrachloro-m-xylene [1]	62.5	30-150		10/30/24 14:51
Tetrachloro-m-xylene [2]	59.6	30-150		10/30/24 14:51

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021 | Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Barium	0.044	0.050	0.0098	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Calcium	140	0.50	0.21	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Iron	0.84	0.050	0.036	mg/L	1		SW-846 6010D	10/29/24	10/31/24 6:25	HNN
Lead	0.0083	0.010	0.0044	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Magnesium	44	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Manganese	0.014	0.010	0.0018	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	10/30/24	10/30/24 13:53	AAJ
Nickel	0.0060	0.010	0.0046	mg/L	1	J	SW-846 6010D	10/29/24	10/31/24 6:25	HNN
Potassium	5.6	2.0	0.47	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Sodium	20	2.0	0.38	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021 | Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	18	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 15:11	EMF

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021 | Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.8	2.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.40	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorohexanoic acid (PFHxA)	1.7	0.94	0.23	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluoroheptanoic acid (PFHpA)	1.7	0.94	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorooctanoic acid (PFOA)	15	0.94	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorononanoic acid (PFNA)	ND	0.94	0.18	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorodecanoic acid (PFDA)	0.25	0.94	0.19	ng/L	1	J	Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.28	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorobutanesulfonic acid (PFBS)	1.8	0.94	0.20	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.8	0.94	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.94	0.31	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorooctanesulfonic acid (PFOS)	19	0.94	0.36	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.70	ng/L	1	PF-18	Draft Method 1633	10/29/24	11/2/24 16:44	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	2.8	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.22	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.94	0.31	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.32	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.34	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.38	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.4	2.6	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.97	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.77	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.91	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.8	1.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	2.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	11	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 16:44	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.9	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021 | Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.51	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/29/24	11/2/24 16:44	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	19.3		10-130		11/2/24 16:44
13C5-PFPeA	56.9		35-150		11/2/24 16:44
13C5-PFHxA	65.6		55-150		11/2/24 16:44
13C4-PFHpA	68.1		55-150		11/2/24 16:44
13C8-PFOA	68.3		60-140		11/2/24 16:44
13C9-PFNA	65.8		55-140		11/2/24 16:44
13C6-PFDA	66.0		50-140		11/2/24 16:44
13C7-PFUnA	60.5		30-140		11/2/24 16:44
13C2-PFDoA	55.1		10-150		11/2/24 16:44
13C2-PFTeDA	50.3		10-130		11/2/24 16:44
13C3-PFBS	70.9		55-150		11/2/24 16:44
13C3-PFHxS	68.3		55-150		11/2/24 16:44
13C8-PFOS	67.0		45-140		11/2/24 16:44
13C2-4:2FTS	**210**	*	60-200	PF-18	11/2/24 16:44
13C2-6:2FTS	181		60-200		11/2/24 16:44
13C2-8:2FTS	114		50-200		11/2/24 16:44
13C8-PFOSA	55.1		30-130		11/2/24 16:44
D3-NMeFOSA	48.0		15-130		11/2/24 16:44
D5-NEtFOSA	47.8		10-130		11/2/24 16:44
D3-NMeFOSAA	73.9		45-200		11/2/24 16:44
D5-NEtFOSAA	76.7		10-200		11/2/24 16:44
D7-NMeFOSE	47.8		10-150		11/2/24 16:44
D9-NEtFOSE	48.2		10-150		11/2/24 16:44
13C3-HFPO-DA	60.4		25-160		11/2/24 16:44

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021 | Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1221 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1232 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1248 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1262 [1]	ND	0.19	0.080	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1268 [1]	ND	0.19	0.074	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		10/30/24 15:08
Decachlorobiphenyl [2]	80.0	30-150		10/30/24 15:08
Tetrachloro-m-xylene [1]	85.5	30-150		10/30/24 15:08
Tetrachloro-m-xylene [2]	80.7	30-150		10/30/24 15:08

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021 | Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.31	0.050	0.025	mg/L	1	MS-22	SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Barium	0.078	0.050	0.0098	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Calcium	150	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Iron	0.68	0.050	0.036	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Lead	0.0090	0.010	0.0044	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Magnesium	39	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Manganese	0.35	0.010	0.0018	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	10/30/24	10/30/24 13:55	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	10/29/24	10/31/24 6:02	HNN
Potassium	6.5	2.0	0.47	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Sodium	8.2	2.0	0.38	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021 | Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	34	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 15:11	EMF

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: DUP_20241021 | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	28	3.9	2.2	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluoropentanoic acid (PFPeA)	15	2.0	0.42	ng/L	1	PF-22	Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorohexanoic acid (PFHxA)	23	0.99	0.24	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluoroheptanoic acid (PFHpA)	22	0.99	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorooctanoic acid (PFOA)	120	0.99	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorononanoic acid (PFNA)	2.6	0.99	0.19	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorodecanoic acid (PFDA)	0.43	0.99	0.20	ng/L	1	J	Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.99	0.20	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.99	0.20	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	0.29	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorobutanesulfonic acid (PFBS)	5.0	0.99	0.21	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.6	0.99	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorohexanesulfonic acid (PFHxS)	13	0.99	0.28	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluoroheptanesulfonic acid (PFHpS)	2.9	0.99	0.33	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorooctanesulfonic acid (PFOS)	150	0.99	0.38	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.99	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	0.28	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	0.28	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.74	ng/L	1	PF-17	Draft Method 1633	10/29/24	11/2/24 17:00	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	3.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	0.23	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.99	0.32	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	0.33	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.99	0.35	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.99	0.39	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.9	2.7	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	2.6	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.81	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.95	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.9	1.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	2.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	11	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 17:00	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	9.4	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.34	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: DUP_20241021 | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.53	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:00	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	18.3		10-130		11/2/24 17:00
13C5-PFPeA	53.5		35-150		11/2/24 17:00
13C5-PFHxA	66.8		55-150		11/2/24 17:00
13C4-PFHpA	71.0		55-150		11/2/24 17:00
13C8-PFOA	70.9		60-140		11/2/24 17:00
13C9-PFNA	67.7		55-140		11/2/24 17:00
13C6-PFDA	69.0		50-140		11/2/24 17:00
13C7-PFUnA	64.6		30-140		11/2/24 17:00
13C2-PFDoA	58.1		10-150		11/2/24 17:00
13C2-PFTeDA	50.6		10-130		11/2/24 17:00
13C3-PFBS	70.4		55-150		11/2/24 17:00
13C3-PFHxS	68.4		55-150		11/2/24 17:00
13C8-PFOS	66.0		45-140		11/2/24 17:00
13C2-4:2FTS	**204**	*	60-200	PF-17	11/2/24 17:00
13C2-6:2FTS	149		60-200		11/2/24 17:00
13C2-8:2FTS	85.7		50-200		11/2/24 17:00
13C8-PFOSA	56.0		30-130		11/2/24 17:00
D3-NMeFOSA	47.5		15-130		11/2/24 17:00
D5-NEtFOSA	46.3		10-130		11/2/24 17:00
D3-NMeFOSAA	63.4		45-200		11/2/24 17:00
D5-NEtFOSAA	59.7		10-200		11/2/24 17:00
D7-NMeFOSE	46.8		10-150		11/2/24 17:00
D9-NEtFOSE	46.7		10-150		11/2/24 17:00
13C3-HFPO-DA	66.0		25-160		11/2/24 17:00

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: DUP_20241021 | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1221 [1]	ND	0.19	0.099	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1232 [1]	ND	0.19	0.089	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1248 [1]	ND	0.19	0.090	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1262 [1]	ND	0.19	0.079	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1268 [1]	ND	0.19	0.072	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		10/30/24 15:25
Decachlorobiphenyl [2]	81.2	30-150		10/30/24 15:25
Tetrachloro-m-xylene [1]	80.1	30-150		10/30/24 15:25
Tetrachloro-m-xylene [2]	73.7	30-150		10/30/24 15:25

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: DUP_20241021 | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Barium	0.044	0.050	0.0098	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Calcium	130	0.50	0.21	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Chromium	0.0067	0.010	0.0053	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Iron	2.1	0.050	0.036	mg/L	1		SW-846 6010D	10/29/24	10/31/24 6:33	HNN
Lead	0.0068	0.010	0.0044	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Magnesium	43	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Manganese	0.018	0.010	0.0018	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	10/30/24	10/30/24 13:56	AAJ
Nickel	0.0068	0.010	0.0046	mg/L	1	J	SW-846 6010D	10/29/24	10/31/24 6:33	HNN
Potassium	5.5	2.0	0.47	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Sodium	20	2.0	0.38	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Zinc	0.0081	0.010	0.0080	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: DUP_20241021 | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	24	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 15:11	EMF

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: Equipment Blank | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-04

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	4.0	2.2	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluoropentanoic acid (PFPeA)	ND	2.0	0.43	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.99	0.24	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.99	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorooctanoic acid (PFOA)	ND	0.99	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorononanoic acid (PFNA)	ND	0.99	0.19	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorodecanoic acid (PFDA)	ND	0.99	0.21	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.99	0.20	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.99	0.20	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	0.29	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	0.26	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.99	0.21	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	0.28	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	0.33	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	0.38	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.99	0.25	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	0.29	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	0.29	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	0.74	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	3.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	1.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	0.23	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.99	0.33	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	0.33	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.99	0.35	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.99	0.40	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.9	2.7	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	2.7	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	1.0	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.0	0.82	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.0	0.96	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
11Cl-PF3OUdS (F53B Major)	ND	4.0	1.1	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	2.2	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	50	11	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 17:16	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	9.4	ng/L	1	V-05	Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.35	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: Equipment Blank | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-04

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	10/29/24	11/2/24 17:16	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	89.8	10-130		11/2/24 17:16
13C5-PFPeA	74.4	35-150		11/2/24 17:16
13C5-PFHxA	68.2	55-150		11/2/24 17:16
13C4-PFHpA	67.1	55-150		11/2/24 17:16
13C8-PFOA	74.3	60-140		11/2/24 17:16
13C9-PFNA	74.4	55-140		11/2/24 17:16
13C6-PFDA	74.5	50-140		11/2/24 17:16
13C7-PFUnA	70.9	30-140		11/2/24 17:16
13C2-PFDoA	66.1	10-150		11/2/24 17:16
13C2-PFTeDA	62.3	10-130		11/2/24 17:16
13C3-PFBS	81.5	55-150		11/2/24 17:16
13C3-PFHxS	71.7	55-150		11/2/24 17:16
13C8-PFOS	75.0	45-140		11/2/24 17:16
13C2-4:2FTS	83.5	60-200		11/2/24 17:16
13C2-6:2FTS	72.6	60-200		11/2/24 17:16
13C2-8:2FTS	70.7	50-200		11/2/24 17:16
13C8-PFOSA	62.3	30-130		11/2/24 17:16
D3-NMeFOSA	60.9	15-130		11/2/24 17:16
D5-NEtFOSA	69.4	10-130		11/2/24 17:16
D3-NMeFOSAA	72.2	45-200		11/2/24 17:16
D5-NEtFOSAA	74.5	10-200		11/2/24 17:16
D7-NMeFOSE	64.4	10-150		11/2/24 17:16
D9-NEtFOSE	67.2	10-150		11/2/24 17:16
13C3-HFPO-DA	79.3	25-160		11/2/24 17:16

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Project Location: Lackawanna, NY | Sample Description: | Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: Equipment Blank | Sampled: 10/21/2024 00:00

Sample ID: 24J3097-04

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 7:07	LL

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24J3097-04 [Equipment Blank]	B390125	50.0	10/23/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24J3097-01 [MW-2_20241021]	B390195	50.0	10/23/24
24J3097-02 [MW-4_20241021]	B390195	50.0	10/23/24
24J3097-03 [DUP_20241021]	B390195	50.0	10/23/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 10/23/2024 per NO PREP in Batch B390195

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3097-01 [MW-2_20241021]	B390328	516	5.00	10/29/24
24J3097-02 [MW-4_20241021]	B390328	532	5.00	10/29/24
24J3097-03 [DUP_20241021]	B390328	508	5.00	10/29/24
24J3097-04 [Equipment Blank]	B390328	504	5.00	10/29/24

Prep Method:SW-846 3005A Analytical Method:SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3097-01 [MW-2_20241021]	B390832	50.0	50.0	10/29/24
24J3097-02 [MW-4_20241021]	B390832	50.0	50.0	10/29/24
24J3097-03 [DUP_20241021]	B390832	50.0	50.0	10/29/24

Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3097-01 [MW-2_20241021]	B390879	10.0	10.0	10/30/24
24J3097-02 [MW-4_20241021]	B390879	10.0	10.0	10/30/24
24J3097-03 [DUP_20241021]	B390879	10.0	10.0	10/30/24

Prep Method:SW-846 3510C Analytical Method:SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3097-01 [MW-2_20241021]	B390132	107	2.00	10/23/24
24J3097-02 [MW-4_20241021]	B390132	103	2.00	10/23/24
24J3097-03 [DUP_20241021]	B390132	105	2.00	10/23/24

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633										
Blank (B390328-BLK1)				Prepared: 10/29/24 Analyzed: 11/01/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							V-05
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*72.5*		ng/L	98.23		73.8	10-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633										
Blank (B390328-BLK1)				Prepared: 10/29/24 Analyzed: 11/01/24						
Surrogate: 13C5-PFPeA	*40.1*		ng/L	49.12		81.6	35-150			
Surrogate: 13C5-PFHxA	*20.0*		ng/L	24.56		81.6	55-150			
Surrogate: 13C4-PFHpA	*21.7*		ng/L	24.56		88.2	55-150			
Surrogate: 13C8-PFOA	*19.6*		ng/L	24.56		80.0	60-140			
Surrogate: 13C9-PFNA	*11.1*		ng/L	12.28		90.8	55-140			
Surrogate: 13C6-PFDA	*11.3*		ng/L	12.28		91.8	50-140			
Surrogate: 13C7-PFUnA	*9.46*		ng/L	12.28		77.1	30-140			
Surrogate: 13C2-PFDoA	*10.5*		ng/L	12.28		85.2	10-150			
Surrogate: 13C2-PFTeDA	*10.6*		ng/L	12.28		86.4	10-130			
Surrogate: 13C3-PFBS	*23.6*		ng/L	24.56		95.9	55-150			
Surrogate: 13C3-PFHxS	*20.2*		ng/L	24.56		82.1	55-150			
Surrogate: 13C8-PFOS	*19.9*		ng/L	24.56		81.0	45-140			
Surrogate: 13C2-4:2FTS	*45.4*		ng/L	49.12		92.5	60-200			
Surrogate: 13C2-6:2FTS	*42.6*		ng/L	49.12		86.8	60-200			
Surrogate: 13C2-8:2FTS	*35.9*		ng/L	49.12		73.1	50-200			
Surrogate: 13C8-PFOSA	*19.3*		ng/L	24.56		78.8	30-130			
Surrogate: D3-NMeFOSA	*15.2*		ng/L	24.56		61.9	15-130			
Surrogate: D5-NEtFOSA	*16.6*		ng/L	24.56		67.5	10-130			
Surrogate: D3-NMeFOSAA	*41.8*		ng/L	49.12		85.2	45-200			
Surrogate: D5-NEtFOSAA	*44.6*		ng/L	49.12		90.7	10-200			
Surrogate: D7-NMeFOSE	*191*		ng/L	245.6		77.8	10-150			
Surrogate: D9-NEtFOSE	*174*		ng/L	245.6		71.0	10-150			
Surrogate: 13C3-HFPO-DA	*86.0*		ng/L	98.23		87.6	25-160			
LCS (B390328-BS1)				Prepared: 10/29/24 Analyzed: 11/01/24						
Perfluorobutanoic acid (PFBA)	90.4	3.9	ng/L	94.10		96.0	58-148			
Perfluoropentanoic acid (PFPeA)	48.2	2.0	ng/L	47.05		102	54-152			
Perfluorohexanoic acid (PFHxA)	25.0	0.98	ng/L	23.52		106	55-152			
Perfluoroheptanoic acid (PFHpA)	23.0	0.98	ng/L	23.52		97.6	54-154			
Perfluorooctanoic acid (PFOA)	24.9	0.98	ng/L	23.52		106	52-161			
Perfluorononanoic acid (PFNA)	20.3	0.98	ng/L	23.52		86.4	59-149			
Perfluorodecanoic acid (PFDA)	21.6	0.98	ng/L	23.52		91.8	52-147			
Perfluoroundecanoic acid (PFUnA)	25.9	0.98	ng/L	23.52		110	48-159			
Perfluorododecanoic acid (PFDoA)	25.0	0.98	ng/L	23.52		106	64-142			
Perfluorotridecanoic acid (PFTrDA)	26.0	0.98	ng/L	23.52		111	49-148			
Perfluorotetradecanoic acid (PFTeDA)	23.2	0.98	ng/L	23.52		98.7	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.8	0.98	ng/L	20.87		99.5	62-144			
Perfluoropentanesulfonic acid (PFPeS)	24.3	0.98	ng/L	22.14		110	59-151			
Perfluorohexanesulfonic acid (PFHxS)	21.4	0.98	ng/L	21.50		99.7	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	23.7	0.98	ng/L	22.42		106	55-152			
Perfluorooctanesulfonic acid (PFOS)	22.0	0.98	ng/L	21.83		101	58-149			
Perfluorononanesulfonic acid (PFNS)	24.2	0.98	ng/L	22.63		107	52-148			
Perfluorodecanesulfonic acid (PFDS)	25.1	0.98	ng/L	22.70		111	51-147			
Perfluorododecanesulfonic acid (PFDoS)	21.6	0.98	ng/L	22.82		94.7	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	105	3.9	ng/L	88.22		119	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.1	3.9	ng/L	89.39		106	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	100	3.9	ng/L	90.33		111	63-152			
Perfluorooctanesulfonamide (PFOSA)	24.5	0.98	ng/L	23.52		104	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	22.0	0.98	ng/L	23.52		93.4	63-145			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633										
LCS (B390328-BS1)				Prepared: 10/29/24 Analyzed: 11/01/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	20.2	0.98	ng/L	23.52		86.0	65-139			
N-MeFOSAA (NMeFOSAA)	23.4	0.98	ng/L	23.52		99.4	58-144			
N-EtFOSAA (NEtFOSAA)	19.9	0.98	ng/L	23.52		84.7	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	210	9.8	ng/L	235.2		89.2	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	222	9.8	ng/L	235.2		94.3	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	116	3.9	ng/L	94.10		123	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	104	3.9	ng/L	88.92		117	68-146			
9Cl-PF3ONS (F53B Minor)	86.7	3.9	ng/L	87.98		98.5	56-156			
11Cl-PF3OUdS (F53B Major)	74.3	3.9	ng/L	88.92		83.6	46-156			V-05
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	228	9.8	ng/L	235.2		96.9	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1080	49	ng/L	1176		91.4	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1040	49	ng/L	1176		88.0	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	46.8	2.0	ng/L	41.87		112	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	49.5	2.0	ng/L	47.05		105	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	54.3	2.0	ng/L	47.05		115	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	61.2	2.0	ng/L	47.05		130	48-161			
Surrogate: 13C4-PFBA	*72.0*		ng/L	98.02		73.5	10-130			
Surrogate: 13C5-PFPeA	*38.0*		ng/L	49.01		77.6	35-150			
Surrogate: 13C5-PFHxA	*19.1*		ng/L	24.50		77.9	55-150			
Surrogate: 13C4-PFHpA	*20.1*		ng/L	24.50		82.1	55-150			
Surrogate: 13C8-PFOA	*18.5*		ng/L	24.50		75.3	60-140			
Surrogate: 13C9-PFNA	*10.6*		ng/L	12.25		86.3	55-140			
Surrogate: 13C6-PFDA	*10.9*		ng/L	12.25		89.1	50-140			
Surrogate: 13C7-PFUnA	*9.02*		ng/L	12.25		73.6	30-140			
Surrogate: 13C2-PFDoA	*10.3*		ng/L	12.25		83.9	10-150			
Surrogate: 13C2-PFTeDA	*10.3*		ng/L	12.25		84.0	10-130			
Surrogate: 13C3-PFBS	*22.0*		ng/L	24.50		90.0	55-150			
Surrogate: 13C3-PFHxS	*19.2*		ng/L	24.50		78.4	55-150			
Surrogate: 13C8-PFOS	*18.3*		ng/L	24.50		74.8	45-140			
Surrogate: 13C2-4:2FTS	*40.6*		ng/L	49.01		82.9	60-200			
Surrogate: 13C2-6:2FTS	*40.8*		ng/L	49.01		83.2	60-200			
Surrogate: 13C2-8:2FTS	*31.3*		ng/L	49.01		63.8	50-200			
Surrogate: 13C8-PFOSA	*18.4*		ng/L	24.50		74.9	30-130			
Surrogate: D3-NMeFOSA	*14.7*		ng/L	24.50		60.1	15-130			
Surrogate: D5-NEtFOSA	*17.0*		ng/L	24.50		69.3	10-130			
Surrogate: D3-NMeFOSAA	*38.3*		ng/L	49.01		78.1	45-200			
Surrogate: D5-NEtFOSAA	*42.0*		ng/L	49.01		85.8	10-200			
Surrogate: D7-NMeFOSE	*181*		ng/L	245.0		73.7	10-150			
Surrogate: D9-NEtFOSE	*169*		ng/L	245.0		69.1	10-150			
Surrogate: 13C3-HFPO-DA	*79.8*		ng/L	98.02		81.4	25-160			
MRL Check (B390328-MRL1)				Prepared: 10/29/24 Analyzed: 11/01/24						
Perfluorobutanoic acid (PFBA)	8.85	3.9	ng/L	7.845		113	44-157			
Perfluoropentanoic acid (PFPeA)	4.51	2.0	ng/L	3.923		115	57-148			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633										
MRL Check (B390328-MRL1)				Prepared: 10/29/24 Analyzed: 11/01/24						
Perfluorohexanoic acid (PFHxA)	2.35	0.98	ng/L	1.961		120	62-149			
Perfluoroheptanoic acid (PFHpA)	2.14	0.98	ng/L	1.961		109	56-150			
Perfluorooctanoic acid (PFOA)	2.36	0.98	ng/L	1.961		120	57-161			
Perfluorononanoic acid (PFNA)	1.83	0.98	ng/L	1.961		93.5	53-157			
Perfluorodecanoic acid (PFDA)	2.05	0.98	ng/L	1.961		104	43-158			
Perfluoroundecanoic acid (PFUnA)	2.40	0.98	ng/L	1.961		122	50-155			
Perfluorododecanoic acid (PFDoA)	2.16	0.98	ng/L	1.961		110	60-141			
Perfluorotridecanoic acid (PFTrDA)	2.20	0.98	ng/L	1.961		112	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.12	0.98	ng/L	1.961		108	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.82	0.98	ng/L	1.740		105	63-145			
Perfluoropentanesulfonic acid (PFPeS)	2.18	0.98	ng/L	1.846		118	58-144			
Perfluorohexanesulfonic acid (PFHxS)	2.01	0.98	ng/L	1.793		112	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	2.15	0.98	ng/L	1.869		115	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.96	0.98	ng/L	1.820		108	43-162			
Perfluorononanesulfonic acid (PFNS)	2.23	0.98	ng/L	1.887		118	46-151			
Perfluorodecanesulfonic acid (PFDS)	2.40	0.98	ng/L	1.893		127	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.89	0.98	ng/L	1.902		99.3	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	9.01	3.9	ng/L	7.355		123	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.80	3.9	ng/L	7.453		131	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.50	3.9	ng/L	7.531		126	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.33	0.98	ng/L	1.961		119	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.74	0.98	ng/L	1.961		88.8	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.79	0.98	ng/L	1.961		91.3	49-156			
N-MeFOSAA (NMeFOSAA)	2.29	0.98	ng/L	1.961		117	32-160			
N-EtFOSAA (NEtFOSAA)	1.91	0.98	ng/L	1.961		97.3	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	18.0	9.8	ng/L	19.61		91.9	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.7	9.8	ng/L	19.61		100	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.57	3.9	ng/L	7.845		109	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.67	3.9	ng/L	7.414		103	61-148			
9Cl-PF3ONS (F53B Minor)	6.18	3.9	ng/L	7.335		84.2	44-167			
11Cl-PF3OUdS (F53B Major)	5.26	3.9	ng/L	7.414		70.9	36-158			V-05
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	17.7	9.8	ng/L	19.61		90.0	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	81.0	49	ng/L	98.06		82.6	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	78.4	49	ng/L	98.06		79.9	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.67	2.0	ng/L	3.491		105	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.78	2.0	ng/L	3.923		96.3	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.11	2.0	ng/L	3.923		105	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.81	2.0	ng/L	3.923		123	47-160			
Surrogate: 13C4-PFBA	*66.8*		ng/L	98.06		68.2	10-130			
Surrogate: 13C5-PFPeA	*36.1*		ng/L	49.03		73.5	35-150			
Surrogate: 13C5-PFHxA	*18.3*		ng/L	24.52		74.7	55-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633										
MRL Check (B390328-MRL1)				Prepared: 10/29/24 Analyzed: 11/01/24						
Surrogate: 13C4-PFHpA	*19.0*		ng/L	24.52		77.5	55-150			
Surrogate: 13C8-PFOA	*18.5*		ng/L	24.52		75.3	60-140			
Surrogate: 13C9-PFNA	*9.83*		ng/L	12.26		80.2	55-140			
Surrogate: 13C6-PFDA	*9.18*		ng/L	12.26		74.9	50-140			
Surrogate: 13C7-PFUnA	*7.61*		ng/L	12.26		62.1	30-140			
Surrogate: 13C2-PFDoA	*8.79*		ng/L	12.26		71.7	10-150			
Surrogate: 13C2-PFTeDA	*8.76*		ng/L	12.26		71.5	10-130			
Surrogate: 13C3-PFBS	*20.6*		ng/L	24.52		84.2	55-150			
Surrogate: 13C3-PFHxS	*18.4*		ng/L	24.52		75.1	55-150			
Surrogate: 13C8-PFOS	*18.5*		ng/L	24.52		75.6	45-140			
Surrogate: 13C2-4:2FTS	*41.7*		ng/L	49.03		85.1	60-200			
Surrogate: 13C2-6:2FTS	*38.5*		ng/L	49.03		78.6	60-200			
Surrogate: 13C2-8:2FTS	*31.2*		ng/L	49.03		63.7	50-200			
Surrogate: 13C8-PFOSA	*17.9*		ng/L	24.52		73.0	30-130			
Surrogate: D3-NMeFOSA	*13.7*		ng/L	24.52		55.8	15-130			
Surrogate: D5-NEtFOSA	*15.1*		ng/L	24.52		61.6	10-130			
Surrogate: D3-NMeFOSAA	*38.4*		ng/L	49.03		78.4	45-200			
Surrogate: D5-NEtFOSAA	*39.5*		ng/L	49.03		80.5	10-200			
Surrogate: D7-NMeFOSE	*175*		ng/L	245.2		71.3	10-150			
Surrogate: D9-NEtFOSE	*158*		ng/L	245.2		64.3	10-150			
Surrogate: 13C3-HFPO-DA	*79.4*		ng/L	98.06		81.0	25-160			
Matrix Spike (B390328-MS1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 11/01/24						
Perfluorobutanoic acid (PFBA)	95.5	3.9	ng/L	94.43	ND	101	58-148			
Perfluoropentanoic acid (PFPeA)	49.5	2.0	ng/L	47.22	ND	105	54-152			
Perfluorohexanoic acid (PFHxA)	27.8	0.98	ng/L	23.61	1.65	111	55-152			
Perfluoroheptanoic acid (PFHpA)	25.5	0.98	ng/L	23.61	1.71	101	54-154			
Perfluorooctanoic acid (PFOA)	39.3	0.98	ng/L	23.61	14.5	105	52-161			
Perfluorononanoic acid (PFNA)	21.5	0.98	ng/L	23.61	ND	91.2	59-149			
Perfluorodecanoic acid (PFDA)	23.0	0.98	ng/L	23.61	0.253	96.3	52-147			
Perfluoroundecanoic acid (PFUnA)	25.1	0.98	ng/L	23.61	ND	106	48-159			
Perfluorododecanoic acid (PFDoA)	25.8	0.98	ng/L	23.61	ND	109	64-142			
Perfluorotridecanoic acid (PFTrDA)	26.8	0.98	ng/L	23.61	ND	114	49-148			
Perfluorotetradecanoic acid (PFTeDA)	25.1	0.98	ng/L	23.61	ND	106	47-161			
Perfluorobutanesulfonic acid (PFBS)	22.2	0.98	ng/L	20.94	1.79	97.5	62-144			
Perfluoropentanesulfonic acid (PFPeS)	22.9	0.98	ng/L	22.22	ND	103	59-151			
Perfluorohexanesulfonic acid (PFHxS)	21.3	0.98	ng/L	21.58	1.80	90.3	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	23.2	0.98	ng/L	22.50	ND	103	55-152			
Perfluorooctanesulfonic acid (PFOS)	35.5	0.98	ng/L	21.91	19.4	73.8	58-149			
Perfluorononanesulfonic acid (PFNS)	21.2	0.98	ng/L	22.71	ND	93.5	52-148			
Perfluorodecanesulfonic acid (PFDS)	21.8	0.98	ng/L	22.78	ND	95.6	51-147			
Perfluorododecanesulfonic acid (PFDoS)	18.4	0.98	ng/L	22.90	ND	80.2	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.2	3.9	ng/L	88.53	ND	109	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	103	3.9	ng/L	89.71	ND	115	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109	3.9	ng/L	90.66	ND	120	63-152			
Perfluorooctanesulfonamide (PFOSA)	23.9	0.98	ng/L	23.61	ND	101	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.4	0.98	ng/L	23.61	ND	99.1	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.5	0.98	ng/L	23.61	ND	91.0	65-139			
N-MeFOSAA (NMeFOSAA)	24.6	0.98	ng/L	23.61	ND	104	58-144			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633											
Matrix Spike (B390328-MS1)	**Source: 24J3097-02**			Prepared: 10/29/24 Analyzed: 11/01/24							
N-EtFOSAA (NEtFOSAA)	20.5	0.98	ng/L	23.61	ND	87.0		59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	211	9.8	ng/L	236.1	ND	89.5		71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	216	9.8	ng/L	236.1	ND	91.4		69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	117	3.9	ng/L	94.43	ND	124		63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	137	3.9	ng/L	89.24	ND	**153**	*	68-146			MS-12
9Cl-PF3ONS (F53B Minor)	114	3.9	ng/L	88.30	ND	129		56-156			
11Cl-PF3OUdS (F53B Major)	85.4	3.9	ng/L	89.24	ND	95.7		46-156			V-05
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	240	9.8	ng/L	236.1	ND	102		62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1620	49	ng/L	1180	ND	**138**	*	63-134			MS-12
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1460	49	ng/L	1180	ND	124		50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	52.4	2.0	ng/L	42.02	ND	125		56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	18.0	2.0	ng/L	47.22	ND	**38.2**	*	51-145			MS-07A
Perfluoro-4-methoxybutanoic acid (PFMBA)	65.2	2.0	ng/L	47.22	ND	138		55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	39.5	2.0	ng/L	47.22	ND	83.7		48-161			
Surrogate: 13C4-PFBA	*9.87*		ng/L	98.37		10.0		10-130			
Surrogate: 13C5-PFPeA	*24.7*		ng/L	49.18		50.1		35-150			
Surrogate: 13C5-PFHxA	*17.5*		ng/L	24.59		71.1		55-150			
Surrogate: 13C4-PFHpA	*19.4*		ng/L	24.59		78.9		55-150			
Surrogate: 13C8-PFOA	*17.7*		ng/L	24.59		71.8		60-140			
Surrogate: 13C9-PFNA	*8.90*		ng/L	12.30		72.4		55-140			
Surrogate: 13C6-PFDA	*8.83*		ng/L	12.30		71.8		50-140			
Surrogate: 13C7-PFUnA	*8.09*		ng/L	12.30		65.8		30-140			
Surrogate: 13C2-PFDoA	*8.05*		ng/L	12.30		65.5		10-150			
Surrogate: 13C2-PFTeDA	*8.05*		ng/L	12.30		65.5		10-130			
Surrogate: 13C3-PFBS	*18.4*		ng/L	24.59		74.9		55-150			
Surrogate: 13C3-PFHxS	*18.0*		ng/L	24.59		73.3		55-150			
Surrogate: 13C8-PFOS	*18.1*		ng/L	24.59		73.5		45-140			
Surrogate: 13C2-4:2FTS	*96.8*		ng/L	49.18		197		60-200			
Surrogate: 13C2-6:2FTS	*82.9*		ng/L	49.18		168		60-200			
Surrogate: 13C2-8:2FTS	*43.2*		ng/L	49.18		87.7		50-200			
Surrogate: 13C8-PFOSA	*16.7*		ng/L	24.59		67.8		30-130			
Surrogate: D3-NMeFOSA	*11.9*		ng/L	24.59		48.4		15-130			
Surrogate: D5-NEtFOSA	*13.2*		ng/L	24.59		53.6		10-130			
Surrogate: D3-NMeFOSAA	*39.3*		ng/L	49.18		79.8		45-200			
Surrogate: D5-NEtFOSAA	*42.9*		ng/L	49.18		87.2		10-200			
Surrogate: D7-NMeFOSE	*139*		ng/L	245.9		56.5		10-150			
Surrogate: D9-NEtFOSE	*129*		ng/L	245.9		52.4		10-150			
Surrogate: 13C3-HFPO-DA	*58.1*		ng/L	98.37		59.0		25-160			
Matrix Spike Dup (B390328-MSD1)	**Source: 24J3097-02**			Prepared: 10/29/24 Analyzed: 11/01/24							
Perfluorobutanoic acid (PFBA)	91.4	3.9	ng/L	94.56	ND	96.6		58-148	4.39	20	
Perfluoropentanoic acid (PFPeA)	48.7	2.0	ng/L	47.28	ND	103		54-152	1.58	20	
Perfluorohexanoic acid (PFHxA)	27.1	0.99	ng/L	23.64	1.65	107		55-152	2.66	25	
Perfluoroheptanoic acid (PFHpA)	24.6	0.99	ng/L	23.64	1.71	96.7		54-154	3.69	25	
Perfluorooctanoic acid (PFOA)	39.2	0.99	ng/L	23.64	14.5	104		52-161	0.256	25	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633											
Matrix Spike Dup (B390328-MSD1)	**Source: 24J3097-02**			Prepared: 10/29/24 Analyzed: 11/01/24							
Perfluorononanoic acid (PFNA)	21.1	0.99	ng/L	23.64	ND	89.1		59-149	2.23	25	
Perfluorodecanoic acid (PFDA)	20.9	0.99	ng/L	23.64	0.253	87.5		52-147	9.32	25	
Perfluoroundecanoic acid (PFUnA)	25.7	0.99	ng/L	23.64	ND	109		48-159	2.26	30	
Perfluorododecanoic acid (PFDoA)	24.8	0.99	ng/L	23.64	ND	105		64-142	3.80	25	
Perfluorotridecanoic acid (PFTrDA)	26.5	0.99	ng/L	23.64	ND	112		49-148	1.28	25	
Perfluorotetradecanoic acid (PFTeDA)	23.3	0.99	ng/L	23.64	ND	98.5		47-161	7.61	25	
Perfluorobutanesulfonic acid (PFBS)	22.2	0.99	ng/L	20.97	1.79	97.3		62-144	0.122	20	
Perfluoropentanesulfonic acid (PFPeS)	24.9	0.99	ng/L	22.25	ND	112		59-151	8.24	25	
Perfluorohexanesulfonic acid (PFHxS)	21.1	0.99	ng/L	21.61	1.80	89.3		57-146	0.937	25	
Perfluoroheptanesulfonic acid (PFHpS)	22.7	0.99	ng/L	22.53	ND	101		55-152	2.39	25	
Perfluorooctanesulfonic acid (PFOS)	36.1	0.99	ng/L	21.94	19.4	76.1		58-149	1.47	20	
Perfluorononanesulfonic acid (PFNS)	20.8	0.99	ng/L	22.74	ND	91.3		52-148	2.27	25	
Perfluorodecanesulfonic acid (PFDS)	21.8	0.99	ng/L	22.81	ND	95.6		51-147	0.188	25	
Perfluorododecanesulfonic acid (PFDoS)	18.9	0.99	ng/L	22.93	ND	82.4		36-145	2.81	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.4	3.9	ng/L	88.65	ND	109		67-146	0.116	25	PF-18
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.6	3.9	ng/L	89.83	ND	111		61-151	3.37	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.5	3.9	ng/L	90.78	ND	105		63-152	12.8	30	
Perfluorooctanesulfonamide (PFOSA)	23.9	0.99	ng/L	23.64	ND	101		61-148	0.105	20	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	22.5	0.99	ng/L	23.64	ND	95.4		63-145	3.75	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.5	0.99	ng/L	23.64	ND	90.8		65-139	0.168	25	
N-MeFOSAA (NMeFOSAA)	23.4	0.99	ng/L	23.64	ND	98.9		58-144	4.99	25	
N-EtFOSAA (NEtFOSAA)	20.1	0.99	ng/L	23.64	ND	84.9		59-146	2.26	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	205	9.9	ng/L	236.4	ND	86.7		71-136	3.06	20	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	216	9.9	ng/L	236.4	ND	91.3		69-137	0.0744	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	115	3.9	ng/L	94.56	ND	122		63-144	1.77	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	141	3.9	ng/L	89.36	ND	**158**	*	68-146	3.26	20	MS-12
9Cl-PF3ONS (F53B Minor)	116	3.9	ng/L	88.42	ND	131		56-156	1.91	30	
11Cl-PF3OUdS (F53B Major)	88.7	3.9	ng/L	89.36	ND	99.3		46-156	3.79	35	V-05
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	254	9.9	ng/L	236.4	ND	107		62-129	5.54	20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1620	49	ng/L	1182	ND	**137**	*	63-134	0.0894	20	MS-12
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1490	49	ng/L	1182	ND	126		50-138	2.02	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	51.9	2.0	ng/L	42.08	ND	123		56-151	1.04	20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	19.2	2.0	ng/L	47.28	ND	**40.7**	*	51-145	6.46	25	MS-07A
Perfluoro-4-methoxybutanoic acid (PFMBA)	63.6	2.0	ng/L	47.28	ND	135		55-148	2.45	20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	37.6	2.0	ng/L	47.28	ND	79.5		48-161	4.98	35	
Surrogate: 13C4-PFBA	*11.8*		ng/L	98.50		12.0		10-130			
Surrogate: 13C5-PFPeA	*27.2*		ng/L	49.25		55.3		35-150			
Surrogate: 13C5-PFHxA	*18.0*		ng/L	24.63		73.0		55-150			
Surrogate: 13C4-PFHpA	*19.6*		ng/L	24.63		79.5		55-150			
Surrogate: 13C8-PFOA	*17.4*		ng/L	24.63		70.6		60-140			
Surrogate: 13C9-PFNA	*9.67*		ng/L	12.31		78.5		55-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B390328 - Draft Method 1633											
Matrix Spike Dup (B390328-MSD1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 11/01/24							
Surrogate: 13C6-PFDA	*10.1*		ng/L	12.31		82.2		50-140			
Surrogate: 13C7-PFUnA	*8.71*		ng/L	12.31		70.7		30-140			
Surrogate: 13C2-PFDoA	*8.91*		ng/L	12.31		72.4		10-150			
Surrogate: 13C2-PFTeDA	*8.97*		ng/L	12.31		72.9		10-130			
Surrogate: 13C3-PFBS	*19.0*		ng/L	24.63		77.1		55-150			
Surrogate: 13C3-PFHxS	*18.0*		ng/L	24.63		73.3		55-150			
Surrogate: 13C8-PFOS	*17.9*		ng/L	24.63		72.6		45-140			
Surrogate: 13C2-4:2FTS	*102*		ng/L	49.25		**207**	*	60-200			PF-18
Surrogate: 13C2-6:2FTS	*86.4*		ng/L	49.25		175		60-200			
Surrogate: 13C2-8:2FTS	*47.4*		ng/L	49.25		96.1		50-200			
Surrogate: 13C8-PFOSA	*17.0*		ng/L	24.63		68.8		30-130			
Surrogate: D3-NMeFOSA	*12.5*		ng/L	24.63		50.7		15-130			
Surrogate: D5-NEtFOSA	*13.6*		ng/L	24.63		55.3		10-130			
Surrogate: D3-NMeFOSAA	*41.2*		ng/L	49.25		83.8		45-200			
Surrogate: D5-NEtFOSAA	*44.9*		ng/L	49.25		91.2		10-200			
Surrogate: D7-NMeFOSE	*139*		ng/L	246.3		56.6		10-150			
Surrogate: D9-NEtFOSE	*129*		ng/L	246.3		52.2		10-150			
Surrogate: 13C3-HFPO-DA	*58.3*		ng/L	98.50		59.2		25-160			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390132 - SW-846 3510C										
Blank (B390132-BLK1)				Prepared: 10/23/24 Analyzed: 10/28/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*4.84*		µg/L	4.000		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.59*		µg/L	4.000		115	30-150			
Surrogate: Tetrachloro-m-xylene	*3.61*		µg/L	4.000		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.55*		µg/L	4.000		88.8	30-150			
LCS (B390132-BS1)				Prepared: 10/23/24 Analyzed: 10/28/24						
Aroclor-1016	1.0	0.20	µg/L	1.000		102	40-140			
Aroclor-1016 [2C]	1.0	0.20	µg/L	1.000		104	40-140			
Aroclor-1260	1.3	0.20	µg/L	1.000		128	40-140			
Aroclor-1260 [2C]	1.2	0.20	µg/L	1.000		125	40-140			
Surrogate: Decachlorobiphenyl	*4.56*		µg/L	4.000		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.37*		µg/L	4.000		109	30-150			
Surrogate: Tetrachloro-m-xylene	*3.89*		µg/L	4.000		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.80*		µg/L	4.000		95.1	30-150			
LCS Dup (B390132-BSD1)				Prepared: 10/23/24 Analyzed: 10/28/24						
Aroclor-1016	0.87	0.20	µg/L	1.000		86.8	40-140	16.3	20	
Aroclor-1016 [2C]	0.88	0.20	µg/L	1.000		87.9	40-140	16.4	20	
Aroclor-1260	1.1	0.20	µg/L	1.000		108	40-140	17.1	20	
Aroclor-1260 [2C]	1.1	0.20	µg/L	1.000		105	40-140	17.2	20	
Surrogate: Decachlorobiphenyl	*4.09*		µg/L	4.000		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.92*		µg/L	4.000		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*3.13*		µg/L	4.000		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.08*		µg/L	4.000		77.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390132 - SW-846 3510C										
Matrix Spike (B390132-MS1)		**Source: 24J3097-02**		Prepared: 10/23/24 Analyzed: 10/29/24						
Aroclor-1016	0.96	0.20	µg/L	0.9826	ND	98.0	40-140			
Aroclor-1016 [2C]	0.90	0.20	µg/L	0.9826	ND	91.6	40-140			
Aroclor-1260	1.0	0.20	µg/L	0.9826	ND	107	40-140			
Aroclor-1260 [2C]	0.99	0.20	µg/L	0.9826	ND	100	40-140			
Surrogate: Decachlorobiphenyl	*2.88*		µg/L	3.930		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.72*		µg/L	3.930		69.2	30-150			
Surrogate: Tetrachloro-m-xylene	*3.30*		µg/L	3.930		83.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.20*		µg/L	3.930		81.4	30-150			
Matrix Spike Dup (B390132-MSD1)		**Source: 24J3097-02**		Prepared: 10/23/24 Analyzed: 10/29/24						
Aroclor-1016	0.91	0.19	µg/L	0.9371	ND	96.9	40-140	5.88	50	
Aroclor-1016 [2C]	0.88	0.19	µg/L	0.9371	ND	94.2	40-140	1.95	50	
Aroclor-1260	1.0	0.19	µg/L	0.9371	ND	109	40-140	2.56	50	
Aroclor-1260 [2C]	0.97	0.19	µg/L	0.9371	ND	104	40-140	1.60	50	
Surrogate: Decachlorobiphenyl	*3.17*		µg/L	3.748		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.01*		µg/L	3.748		80.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.92*		µg/L	3.748		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.87*		µg/L	3.748		76.6	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A										
Blank (B390832-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B390832-BLK2)				Prepared: 10/29/24 Analyzed: 10/31/24						
Nickel	ND	0.010	mg/L							
LCS (B390832-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	0.519	0.050	mg/L	0.5000		104	80-120			
Antimony	0.501	0.050	mg/L	0.5000		100	80-120			
Arsenic	0.481	0.010	mg/L	0.5000		96.2	80-120			
Barium	0.513	0.050	mg/L	0.5000		103	80-120			
Beryllium	0.537	0.0040	mg/L	0.5000		107	80-120			
Cadmium	0.502	0.0040	mg/L	0.5000		100	80-120			
Calcium	4.15	0.50	mg/L	4.000		104	80-120			
Chromium	0.512	0.010	mg/L	0.5000		102	80-120			
Cobalt	0.512	0.010	mg/L	0.5000		102	80-120			
Copper	1.01	0.010	mg/L	1.000		101	80-120			
Iron	4.30	0.050	mg/L	4.000		108	80-120			
Lead	0.515	0.010	mg/L	0.5000		103	80-120			
Magnesium	4.05	0.050	mg/L	4.000		101	80-120			
Manganese	0.512	0.010	mg/L	0.5000		102	80-120			
Potassium	4.20	2.0	mg/L	4.000		105	80-120			
Selenium	0.515	0.050	mg/L	0.5000		103	80-120			
Silver	0.530	0.010	mg/L	0.5000		106	80-120			
Sodium	4.14	2.0	mg/L	4.000		104	80-120			
Thallium	0.491	0.050	mg/L	0.5000		98.1	80-120			
Vanadium	0.501	0.010	mg/L	0.5000		100	80-120			
Zinc	1.02	0.010	mg/L	1.000		102	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A											
LCS (B390832-BS2)				Prepared: 10/29/24 Analyzed: 10/31/24							
Nickel	0.550	0.010	mg/L	0.5000		110		80-120			
LCS Dup (B390832-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24							
Aluminum	0.550	0.050	mg/L	0.5000		110		80-120	5.78	30	
Antimony	0.505	0.050	mg/L	0.5000		101		80-120	0.744	20	
Arsenic	0.481	0.010	mg/L	0.5000		96.2		80-120	0.0609	20	
Barium	0.512	0.050	mg/L	0.5000		102		80-120	0.211	20	
Beryllium	0.550	0.0040	mg/L	0.5000		110		80-120	2.43	20	
Cadmium	0.502	0.0040	mg/L	0.5000		100		80-120	0.0580	20	
Calcium	4.38	0.50	mg/L	4.000		109		80-120	5.21	20	
Chromium	0.512	0.010	mg/L	0.5000		102		80-120	0.00598	20	
Cobalt	0.513	0.010	mg/L	0.5000		103		80-120	0.307	20	
Copper	1.01	0.010	mg/L	1.000		101		80-120	0.0533	20	
Iron	4.52	0.050	mg/L	4.000		113		80-120	4.92	20	
Lead	0.515	0.010	mg/L	0.5000		103		80-120	0.137	20	
Magnesium	4.24	0.050	mg/L	4.000		106		80-120	4.58	20	
Manganese	0.536	0.010	mg/L	0.5000		107		80-120	4.61	20	
Potassium	4.44	2.0	mg/L	4.000		111		80-120	5.46	20	
Selenium	0.515	0.050	mg/L	0.5000		103		80-120	0.0858	20	
Silver	0.531	0.010	mg/L	0.5000		106		80-120	0.200	20	
Sodium	4.24	2.0	mg/L	4.000		106		80-120	2.25	20	
Thallium	0.504	0.050	mg/L	0.5000		101		80-120	2.73	20	
Vanadium	0.502	0.010	mg/L	0.5000		100		80-120	0.234	20	
Zinc	1.02	0.010	mg/L	1.000		102		80-120	0.280	20	
LCS Dup (B390832-BSD2)				Prepared: 10/29/24 Analyzed: 10/31/24							
Nickel	0.551	0.010	mg/L	0.5000		110		80-120	0.194	30	
Matrix Spike (B390832-MS1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24							
Aluminum	0.939	0.050	mg/L	0.5000	0.308	**126**	*	75-125			MS-22
Antimony	0.534	0.050	mg/L	0.5000	ND	107		75-125			
Arsenic	0.498	0.010	mg/L	0.5000	ND	99.6		75-125			
Barium	0.593	0.050	mg/L	0.5000	0.0776	103		75-125			
Beryllium	0.563	0.0040	mg/L	0.5000	ND	113		75-125			
Cadmium	0.511	0.0040	mg/L	0.5000	ND	102		75-125			
Calcium	152	0.50	mg/L	4.000	146	**155**	*	75-125			MS-19
Chromium	0.523	0.010	mg/L	0.5000	ND	105		75-125			
Cobalt	0.491	0.010	mg/L	0.5000	ND	98.3		75-125			
Copper	1.03	0.010	mg/L	1.000	ND	103		75-125			
Iron	5.19	0.050	mg/L	4.000	0.684	113		75-125			
Lead	0.513	0.010	mg/L	0.5000	0.00896	101		75-125			
Magnesium	43.4	0.050	mg/L	4.000	39.2	105		75-125			
Manganese	0.877	0.010	mg/L	0.5000	0.350	105		75-125			
Potassium	10.8	2.0	mg/L	4.000	6.46	109		75-125			
Selenium	0.507	0.050	mg/L	0.5000	ND	101		75-125			
Silver	0.544	0.010	mg/L	0.5000	ND	109		75-125			
Sodium	12.5	2.0	mg/L	4.000	8.16	110		75-125			
Thallium	0.515	0.050	mg/L	0.5000	ND	103		75-125			
Vanadium	0.524	0.010	mg/L	0.5000	ND	105		75-125			
Zinc	0.992	0.010	mg/L	1.000	ND	99.2		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A											
Matrix Spike (B390832-MS2)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/31/24							
Nickel	0.524	0.010	mg/L	0.5000	ND	105		75-125			
Matrix Spike Dup (B390832-MSD1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24							
Aluminum	0.866	0.050	mg/L	0.5000	0.308	112		75-125	8.10	20	
Antimony	0.519	0.050	mg/L	0.5000	ND	104		75-125	3.03	20	
Arsenic	0.487	0.010	mg/L	0.5000	ND	97.4		75-125	2.17	20	
Barium	0.569	0.050	mg/L	0.5000	0.0776	98.3		75-125	4.11	20	
Beryllium	0.539	0.0040	mg/L	0.5000	ND	108		75-125	4.38	20	
Cadmium	0.491	0.0040	mg/L	0.5000	ND	98.2		75-125	3.95	20	
Calcium	146	0.50	mg/L	4.000	146	**14.5**	*	75-125	3.78	20	MS-19
Chromium	0.502	0.010	mg/L	0.5000	ND	100		75-125	4.08	20	
Cobalt	0.472	0.010	mg/L	0.5000	ND	94.4		75-125	4.00	20	
Copper	0.983	0.010	mg/L	1.000	ND	98.3		75-125	4.47	20	
Iron	4.92	0.050	mg/L	4.000	0.684	106		75-125	5.32	20	
Lead	0.501	0.010	mg/L	0.5000	0.00896	98.3		75-125	2.48	20	
Magnesium	42.5	0.050	mg/L	4.000	39.2	83.0		75-125	2.04	20	
Manganese	0.850	0.010	mg/L	0.5000	0.350	100		75-125	3.19	20	
Potassium	10.5	2.0	mg/L	4.000	6.46	102		75-125	2.60	20	
Selenium	0.508	0.050	mg/L	0.5000	ND	102		75-125	0.116	20	
Silver	0.522	0.010	mg/L	0.5000	ND	104		75-125	4.03	20	
Sodium	12.2	2.0	mg/L	4.000	8.16	100		75-125	3.02	20	
Thallium	0.499	0.050	mg/L	0.5000	ND	99.9		75-125	3.12	20	
Vanadium	0.502	0.010	mg/L	0.5000	ND	100		75-125	4.32	20	
Zinc	0.953	0.010	mg/L	1.000	ND	95.3		75-125	4.06	20	
Matrix Spike Dup (B390832-MSD2)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/31/24							
Nickel	0.511	0.010	mg/L	0.5000	ND	102		75-125	2.44	20	
Post Spike (B390832-PS1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24							
Aluminum	2.43		mg/L	2.000	0.302	106		75-125			
Antimony	2.04		mg/L	2.000	0.00862	102		75-125			
Arsenic	1.95		mg/L	2.000	-0.00673	97.6		75-125			
Barium	2.06		mg/L	2.000	0.0760	99.3		75-125			
Beryllium	2.13		mg/L	2.000	0.0000992	107		75-125			
Cadmium	1.98		mg/L	2.000	0.000219	98.8		75-125			
Calcium	160		mg/L	16.00	143	108		75-125			
Chromium	2.01		mg/L	2.000	0.00373	101		75-125			
Cobalt	1.90		mg/L	2.000	0.00191	94.8		75-125			
Copper	4.00		mg/L	4.000	-0.000613	100		75-125			
Iron	17.6		mg/L	16.00	0.670	106		75-125			
Lead	1.95		mg/L	2.000	0.00878	97.2		75-125			
Magnesium	54.5		mg/L	16.00	38.4	101		75-125			
Manganese	2.36		mg/L	2.000	0.343	101		75-125			
Potassium	23.6		mg/L	16.00	6.33	108		75-125			
Selenium	2.02		mg/L	2.000	-0.0108	101		75-125			
Silver	2.01		mg/L	2.000	-0.00239	100		75-125			
Sodium	24.4		mg/L	16.00	7.99	103		75-125			
Thallium	2.13		mg/L	2.000	-0.00507	107		75-125			
Vanadium	2.02		mg/L	2.000	0.00491	101		75-125			
Zinc	3.81		mg/L	4.000	0.00314	95.3		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A										
Dilution Check (B390832-SRL1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24						
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	0.0800	0.25	mg/L		0.0776			3.05	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	151	2.5	mg/L		146			3.70	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.707	0.25	mg/L		0.684			3.29	20	
Lead	ND	0.050	mg/L		ND				20	
Magnesium	41.2	0.25	mg/L		39.2			5.11	20	
Manganese	0.369	0.050	mg/L		0.350			5.10	20	
Potassium	7.05	10	mg/L		6.46			8.66	20	J
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	8.43	10	mg/L		8.16			3.35	20	J
Thallium	ND	0.25	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	
Zinc	ND	0.050	mg/L		ND				20	
Batch B390879 - SW-846 7470A Prep										
Blank (B390879-BLK1)				Prepared & Analyzed: 10/30/24						
Mercury	ND	0.00020	mg/L							
LCS (B390879-BS1)				Prepared & Analyzed: 10/30/24						
Mercury	0.00394	0.00020	mg/L	0.004020		97.9	80-120			
LCS Dup (B390879-BSD1)				Prepared & Analyzed: 10/30/24						
Mercury	0.00395	0.00020	mg/L	0.004020		98.2	80-120	0.279	20	
Matrix Spike (B390879-MS1)		**Source: 24J3097-02**		Prepared & Analyzed: 10/30/24						
Mercury	0.00389	0.00020	mg/L	0.004020	ND	96.7	75-125			
Matrix Spike Dup (B390879-MSD1)		**Source: 24J3097-02**		Prepared & Analyzed: 10/30/24						
Mercury	0.00401	0.00020	mg/L	0.004020	ND	99.8	75-125	3.12	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390195 - Draft Method 1633										
Blank (B390195-BLK1)				Prepared & Analyzed: 10/23/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B390195-BS1)				Prepared & Analyzed: 10/23/24						
Total Suspended Solids	215	5.0	mg/L	200.0		108	51.5-130			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B390132-BS1

Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	1.0	0.0
Aroclor-1260	1	0.000	0.000	0.000	1.3	
	2	0.000	0.000	0.000	1.2	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B390132-BSD1 Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.87	
	2	0.000	0.000	0.000	0.88	1.1
Aroclor-1260	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B390132-MS1 Date(s) Analyzed: 10/29/2024 10/29/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	0.90	6.5
Aroclor-1260	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	0.99	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B390132-MSD1 Date(s) Analyzed: 10/29/2024 10/29/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.88	3.4
Aroclor-1260	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	0.97	3.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-18	Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
S-29	Extracted Internal Standard is outside of control limits.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Water	
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

Pace Analytical

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East Longmeadow, MA 01028

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CHAIN OF CUSTODY RECORD (New York)

Page 1 of 1

24J3097-KAM

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Labella PC
Consultant Address:	300 Pearl St. Buffalo NY
Consultant Phone:	
Callout Project Name:	Lehigh Industrial Park
Project Location:	Lackawanna NY
Callout Number:	152391
Site/Spill Number:	915145
Project Manager:	Megan Kuczka
Pace Analytical Quote Name/Number:	152390
Invoice Recipient:	
Sampled By:	B. Sabuda

Requested Turnaround Time
DEC Standard 30-calendar day
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like (Level 4) Data Pkg Required: ☐
Email To: bsabuda@Labellapc.com
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM / 8082 PCBs	8081 Pesticide / 8151 Herbicide	TAL Total Metals / TCLP RCRA 8 Metals	PFAS 1633 / PFAS 537 ID	MS/MSD	# of Containers	[2] Preservation Code	[3] Container Code
1	MW-2_20241021	10-21-24	1020		✓	GW				X		X	X				
2	MW-4_20241021	10-21-24	1215		✓	GW				X		X	X	X			
3	DUP_20241021	10-21-24	0000		✓	GW				X		X	X				
4	Equipment Blank	10-21-24	—		✓	GW							X				

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	10/21/24 1510
Received by: (signature) C. Quigley Pace	10-21-24 1510
Relinquished by: (signature) C. Quigley Pace	10-21-24 1524
Received by: (signature) Beo Herald S/C	10-21-24 1524
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☒ NYSDEC EQuIS EDD
☒ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Page 49 of 51

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client NYSDEC LaBella

Project Lehigh Industrial Park

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location Lackawanna, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 10/22/24 1020

Back-Sheet By / Date / Time STM 10/22/24 1549

Temperature Method Gun #6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp ☒ < 6° C Actual Temperature 0.0, 0.4

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

Client circled 1,4 Dioxane but did not send containers

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☒	☒ STM
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

All Samples Proper pH: N/A ☒ True ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers						Plastics												VOA Vials				Other / Fill in			
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	1 Liter HCL	1 Liter Sulfuric	250mL Sulfuric	250mL Phosphoric	250mL HCl	100mL Unpreserved	1 Liter Unpreserved	1 Liter Sulfuric	500mL Unpreserved	500mL Sulfuric	250mL Unpreserved	250mL Trizma	250mL Sulfuric	250mL Nitric	250mL NaOH	250mL Ammonium Acetate	250mL NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	Bisulfate	Col/Bact	1LS NH4Cl/ASTM		
1											2			2																
2											2			2					3											
3											2			2																
4														2																
5																														
6																														
7																														
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19																														
20																														

Qualtrax ID: 120836

APPENDIX 3

Data Usability Summary Report

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

Lehigh Industrial Park-CO 152390
SDG: 24J3097
Sampled October 24, 2024

PCB, PFAS, METALS

MW-2_20241021	24J3097-01
MW-4_20241021	24J3097-02
DUP__20241021	24J3097-03
Equipment Blank	24J3097-04

DATA ASSESSMENT

An ASP Category B data package containing analytical results for three groundwater samples and an equipment blank was received from Labella Associates, P.C. on 24Feb25. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Lehigh Industrial Park site, were identified by Chain of Custody documents and traceable through the work of con-test, the laboratory contracted for analysis. Analyses, performed according to SW-846 methods, addressed determinations of 1,4-dioxane, PCB, total metals and PFAS.

Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO HW35, Rev. 2, Semivolatile Data Validation; SOP HW-37 Rev. 3, Polychlorinated Biphenyl (PCB) Aroclor Data Validation; the Draft Method for PFAS by SPE and LC/MS/MS Isotope dilution), and SOP NO. HW-2a Rev 15, ICP-AES Data Validation were used as technical references.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J", "U" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 05Mar25

James B. Baldwin

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation, or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4±2°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days, unpreserved VOC samples within 7 days. The holding time for VOC soils is 14 days. Aqueous semivolatile organics, pesticide, PCB and herbicide samples must be extracted within seven days of collection. Soils must be extracted within 14 days. The extracts must then be analyzed within forty days of extraction. PFAS samples must be analyzed within 90 days of collection. The holding times for cyanide and mercury samples are 14 and 28 days, respectively. Metals samples must be analyzed within six months.

This delivery group contained three groundwater samples and an equipment blank. The samples were collected from the Lehigh Industrial Park site on 21Oct24 and delivered to the laboratory, via a courier, on 22Oct24. At the time of receipt, the sample coolers were found to be intact and properly chilled. Cooler temperatures of 0.0°C and 0.4 were recorded at that time.

Users of the data contained in this report should remain aware that it has been compiled based on the QC information found in the first 49 pages. The remaining 2,500 pages were submitted without a Table of Contents. This made the calibrations impossible to verify and the sample results impossible to duplicate. The results from this delivery group should only be considered useful if consistent with site history.

WET CHEMISTRY

Total Suspended Solids

This group of samples was prepared and analyzed for determinations of Total Suspended Solids on 23Oct24. These samples were associated with a clean method blank and a spiked blank (LCS) that produced a recovery of 108%. This indicated that the method was under control.

PCB

This group of samples was extracted for PCB analysis on 23Oct24 and the extracts were analyzed on 30Oct24. The program holding time limitations were satisfied.

This group of samples was analyzed with a delivery group that included a clean method blank and a pair of spiked blanks that

produced acceptable recoveries (LCS/LCSD). MW-4_20241021 was also spiked in duplicate and produced recoveries that demonstrated acceptable levels of measurement precision and accuracy.

Each Aroclor sample was analyzed in duplicate to demonstrate the stability of the analytical method.

PFAS ORGANICS

This group of samples was extracted for PFAS analysis on 29Oct24 and the extracts were analyzed on 02Nov24. The program holding time limitations were satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Although the results from eight calibration blanks were reported, only two were associated with the samples from this program. These blanks and the equipment blank produced acceptable chromatography and were free of targeted analyte contamination.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibrations for PFAS were performed on 22Oct24 and 01Nov24. Ten standards ranging between 0.1 and 62.5 ng/ml were included. Each targeted analyte demonstrated an acceptable degree of linearity during this calibration.

Although the results from eight calibration check standards were reported, only two bracketed the samples from this project. When compared to the initial calibrations, 2H,2H,3H,3H-perfluorooctanoic acid (FPePA), 3-perfluorohepylpropanic acid (FHpPA) and perfluorobutanesulfonic acid (13C3-PFBS) standards demonstrated poor stability. Based on this performance, the 2H,2H,3H,3H-perfluorooctanoic acid, 3-perfluorohepylpropanic acid and perfluorobutanesulfonic results from this project have been qualified as estimations.

Surrogates (Isotope Dilution Analytes - IDA)

Each sample, blank and standard is spiked with IDA compounds prior to extraction and analysis. Each analyte response is then compared to an isotopically labeled version of the same compound. This technique allows for the correction of bias that might be related to the sample matrix or sample preparation activities. Each IDA must produce a specified level of response.

Surrogate Summary Sheets were properly prepared, based on the method acceptance criteria. When compared to these requirements, unacceptable results were reported for the following samples.

SURROGATE QUALIFICATIONS

MW-2_20241021	PFBA PFPeA PFUnA 4:2FTS 6:2FTS PFOSA NMeFOSA NEtFOSA NMeFOSE NEtFOSE HFPO-DA
MW-4_20241021	PFBA PFPeA PFHxA PFHpA PFUnA PFOA PFNA PFDA PFUnA PFDoA PFTeDA PFBS PFHxS PFOS 4:2FTS 6:2FTS PFOSA NMeFOSA NEtFOSA NMeFOSE NEtFOSE HFPO-DA
DUP_20241021	PFBA PFPeA PFNA PFDA PFUnA PFDoA PFTeDA PFHxS PFOS 4:2FTS 6:2FTS PFOSA NMeFOSA NEtFOSA NMeFOSAA NEtFOSAA NMeFOSE NEtFOSE HFPO-DA
EQUIPMENT BLANK	PFHxA PFHpA PFDoA PFTeDA PFBS PFOSA NMeFOSA NEtFOSA NMeFOSE NEtFOSE

These results have been qualified as estimations.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

MW-4_20241021 was selected for matrix spiking. The entire list of targeted analytes was added to two portions of these samples. The recoveries reported for these spikes included high results for ADONA and FPePA, and a low result for PFMPA. The positive bias indicated for ADONA and FPePA warrants no concern because these analytes were not found in MW-4_20241021. The PFMPA result from MW-4_20241021 has been qualified as an estimation.

A spiked blank (LCS) was also extracted and analyzed with this group of samples. The recoveries reported for this LCS sample demonstrated an acceptable level of measurement accuracy.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Although the blind duplicates from this delivery group were not identified, the duplicate spikes to MW-4_20241021 demonstrated an acceptable level of measurement precision.

METALS and MERCURY

This group of ICP and mercury samples was digested for total metals analysis on 29Nov24 and digestates were analyzed on 30Nov24 and 31Nov24. The samples for mercury analysis were digested on 29Nov24 and analyzed on 30Nov24. The program holding time limitations were satisfied.

MW-2_20241021, MW-4_20241021 and DUP_20241021 were analyzed with a group of samples that included a method blank, a pair of spiked blanks (LCS/LCSD), and duplicate spikes to MW-4_20241021 (MS/MSD). The mercury and ICP metals method blanks were clean.

With the exception of aluminum (126%) and calcium (155%,145%) the MS/MSD spiked samples demonstrated acceptable levels of measurement precision and accuracy. Based on these indications of positive bias, the aluminum and calcium concentrations found in this group of samples have been qualified as estimations.

A pair of spiked blanks was also analyzed with this group of samples. This LCS/LCSD pair demonstrated acceptable levels of measurement precision and accuracy. The method blank was clean.

SUMMARY OF QUALIFIED DATA

Lehigh Industrial Park

SAMPLED: OCTOBER 21, 2024

		CALIBRATE FPePA	CALIBRATE FHpPA	CALIBRATE PFBS	SPIKE PFMPA	SPIKES ALUMINUM	SPIKE CALCIUM	SURROGATES PFAS
MW-2_20241021	24J3097-1	11UJ	9.2UJ	3.1J		0.05UJ	140J	Table 1*
MW-4_20241021	24J3097-2	11UJ	8.9UJ	1.8J	0.5UJ	0.31J	150J	Table 1*
DUPE_20241021	24J3097-3	11UJ	9.4UJ	5.0J		0.05UJ	130J	Table 1*
EQUIP BLANK	24J3097-4	11UJ	9.4UJ	0.21UJ				

Table 1* = Data that has been qualified due to surrogate standard performance has been tabulated on Page 4.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021
Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	18	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 15:11	EMF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021
Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	34	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 15:11	EMF

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Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024
Field Sample #: DUP_20241021
Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	24	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 15:11	EMF

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Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: Equipment Blank
Sampled: 10/21/2024 00:00

Sample ID: 24J3097-04

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	10/23/24	10/23/24 7:07	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021
Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1221 [1]	ND	0.19	0.097	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1232 [1]	ND	0.19	0.087	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1248 [1]	ND	0.19	0.088	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1254 [1]	ND	0.19	0.098	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1260 [2]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1262 [1]	ND	0.19	0.077	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW
Aroclor-1268 [1]	ND	0.19	0.071	µg/L	1		SW-846 8082A	10/23/24	10/30/24 14:51	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		10/30/24 14:51
Decachlorobiphenyl [2]	79.1	30-150		10/30/24 14:51
Tetrachloro-m-xylene [1]	62.5	30-150		10/30/24 14:51
Tetrachloro-m-xylene [2]	59.6	30-150		10/30/24 14:51

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Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021
Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1221 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1232 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1248 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1262 [1]	ND	0.19	0.080	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW
Aroclor-1268 [1]	ND	0.19	0.074	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:08	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		10/30/24 15:08
Decachlorobiphenyl [2]	80.0	30-150		10/30/24 15:08
Tetrachloro-m-xylene [1]	85.5	30-150		10/30/24 15:08
Tetrachloro-m-xylene [2]	80.7	30-150		10/30/24 15:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: DUP_20241021
Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1221 [1]	ND	0.19	0.099	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1232 [1]	ND	0.19	0.089	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1248 [1]	ND	0.19	0.090	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1262 [1]	ND	0.19	0.079	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW
Aroclor-1268 [1]	ND	0.19	0.072	µg/L	1		SW-846 8082A	10/23/24	10/30/24 15:25	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		10/30/24 15:25
Decachlorobiphenyl [2]	81.2	30-150		10/30/24 15:25
Tetrachloro-m-xylene [1]	80.1	30-150		10/30/24 15:25
Tetrachloro-m-xylene [2]	73.7	30-150		10/30/24 15:25

1 - FORM I
ANALYSIS DATA SHEET

MW-2_20241021

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Ground Water	Laboratory ID:	24J3097-01	File ID:	24J3097-01.d
Sampled:	10/21/24 10:20	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 16:28
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	516.33 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179	Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	25 J	2.1	3.9	
2706-90-3	Perfluoropentanoic acid (PFPeA)	14 J	0.42	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	23	0.23	0.97	
375-85-9	Perfluoroheptanoic acid (PFHpA)	21	0.26	0.97	
335-67-1	Perfluorooctanoic acid (PFOA)	110	0.25	0.97	
375-95-1	Perfluorononanoic acid (PFNA)	2.7	0.18	0.97	
335-76-2	Perfluorodecanoic acid (PFDA)		0.20	0.97	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20 UJ	0.20	0.97	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.97	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.29	0.97	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.25	0.97	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.1 J	0.21	0.97	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.4	0.25	0.97	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	11	0.27	0.97	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.3	0.32	0.97	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	120	0.37	0.97	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.97	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.97	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.28	0.97	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.72 UJ	0.72	3.9	PF-17
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	2.9 UJ	2.9	3.9	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.1	3.9	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.22 UJ	0.22	0.97	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF	0.32 UJ	0.32	0.97	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.33 UJ	0.33	0.97	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.35	0.97	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.39	0.97	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	2.6 UJ	2.6	9.7	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	2.6 UJ	2.6	9.7	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	1.0 UJ	1.0	3.9	

1 - FORM I
ANALYSIS DATA SHEET

MW-2_20241021

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Ground Water	Laboratory ID:	24J3097-01	File ID:	24J3097-01.d
Sampled:	10/21/24 10:20	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 16:28
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	516.33 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON,		0.80	3.9	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.93	3.9	
763051-92-9	11Cl-PF3OUdS (F53B Major)		1.0	3.9	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.7	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	11UJ	11	48	V-05
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	9.2UJ	9.2	48	V-05
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.34	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.54	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.52	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.53	1.9	

1 - FORM I
ANALYSIS DATA SHEET

MW-4_20241021

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Ground Water	Laboratory ID:	24J3097-02	File ID:	24J3097-02.d
Sampled:	10/21/24 12:15	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 16:44
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	532.19 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179
Instrument:	QQQ6				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	2.1 UJ	2.1	3.8	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.40 UJ	0.40	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	1.7 J	0.23	0.94	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.7 J	0.25	0.94	
335-67-1	Perfluorooctanoic acid (PFOA)	15 J	0.25	0.94	
375-95-1	Perfluorononanoic acid (PFNA)	0.18 UJ	0.18	0.94	
335-76-2	Perfluorodecanoic acid (PFDA)	0.25 J	0.19	0.94	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19 UJ	0.19	0.94	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19 UJ	0.19	0.94	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.28	0.94	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.24 UJ	0.24	0.94	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.8 J	0.20	0.94	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.24	0.94	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.8 J	0.26	0.94	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.31	0.94	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	19 J	0.36	0.94	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.94	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.27	0.94	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.27	0.94	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.70 UJ	0.70	3.8	PF-18
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	2.8 UJ	2.8	3.8	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.0	3.8	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.22 UJ	0.22	0.94	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.31 UJ	0.31	0.94	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.32 UJ	0.32	0.94	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.34	0.94	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.38	0.94	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	2.6 UJ	2.6	9.4	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	2.5 UJ	2.5	9.4	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.97 UJ	0.97	3.8	

1 - FORM I
ANALYSIS DATA SHEET

MW-4_20241021

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Ground Water	Laboratory ID:	24J3097-02	File ID:	24J3097-02.d
Sampled:	10/21/24 12:15	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 16:44
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	532.19 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON.		0.77	3.8	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.91	3.8	
763051-92-9	11Cl-PF3OUdS (F53B Major)		1.0	3.8	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.4	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	11UJ	11	47	V-05
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	8.9UJ	8.9	47	V-05
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.33	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.5UJ	0.52	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.51	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.52	1.9	

1 - FORM I
ANALYSIS DATA SHEET

DUP_20241021

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Ground Water	Laboratory ID:	24J3097-03	File ID:	24J3097-03.d
Sampled:	10/21/24 00:00	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 17:00
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	507.57 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	28 J	2.2	3.9	
2706-90-3	Perfluoropentanoic acid (PFPeA)	15 J	0.42	2.0	PF-22
307-24-4	Perfluorohexanoic acid (PFHxA)	23	0.24	0.99	
375-85-9	Perfluoroheptanoic acid (PFHpA)	22	0.26	0.99	
335-67-1	Perfluorooctanoic acid (PFOA)	120	0.26	0.99	
375-95-1	Perfluorononanoic acid (PFNA)	2.6 J	0.19	0.99	
335-76-2	Perfluorodecanoic acid (PFDA)	0.43 J	0.20	0.99	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20 UJ	0.20	0.99	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20 UJ	0.20	0.99	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.29	0.99	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.26 UJ	0.26	0.99	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	5.0 J	0.21	0.99	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.6	0.25	0.99	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	13 J	0.28	0.99	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.9	0.33	0.99	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	150 J	0.38	0.99	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.25	0.99	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.99	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.28	0.99	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.74 UJ	0.74	3.9	PF-17
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (	3.0 UJ	3.0	3.9	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	1.1 UJ	1.1	3.9	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.23 UJ	0.23	0.99	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF	0.32 UJ	0.32	0.99	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.33 UJ	0.33	0.99	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.35	0.99	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.39	0.99	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.7	9.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.6	9.9	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	1.0 UJ	1.0	3.9	

1 - FORM I
ANALYSIS DATA SHEET

DUP_20241021

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Ground Water	Laboratory ID:	24J3097-03	File ID:	24J3097-03.d
Sampled:	10/21/24 00:00	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 17:00
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	507.57 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON.		0.81	3.9	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.95	3.9	
763051-92-9	11Cl-PF3OUdS (F53B Major)		1.1	3.9	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	11 U J	11	49	V-05
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	9.4 U J	9.4	49	V-05
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.34	2.0	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.55	2.0	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.53	2.0	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.54	2.0	

1 - FORM I
ANALYSIS DATA SHEET

Equipment Blank

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Equipment Blank Water	Laboratory ID:	24J3097-04	File ID:	24J3097-04.d
Sampled:	10/21/24 00:00	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 17:16
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	503.84 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179 Instrument: QQQ6

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.2	4.0	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.43	2.0	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.24 UJ	0.24	0.99	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.26 UJ	0.26	0.99	
335-67-1	Perfluorooctanoic acid (PFOA)		0.26	0.99	
375-95-1	Perfluorononanoic acid (PFNA)		0.19	0.99	
335-76-2	Perfluorodecanoic acid (PFDA)		0.21	0.99	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.20	0.99	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20 UJ	0.20	0.99	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.29	0.99	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.26 UJ	0.26	0.99	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.21 UJ	0.21	0.99	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.25	0.99	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.28	0.99	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.33	0.99	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.38	0.99	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.25	0.99	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.29	0.99	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.29	0.99	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.74	4.0	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		3.0	4.0	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.1	4.0	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.3 UJ	0.23	0.99	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.33 UJ	0.33	0.99	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.33 UJ	0.33	0.99	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.35	0.99	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.40	0.99	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	2.7 UJ	2.7	9.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	2.7 UJ	2.7	9.9	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		1.0	4.0	

1 - FORM I
ANALYSIS DATA SHEET

Equipment Blank

Laboratory:	Pace New England			Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballst			Project:	Lehigh Industrial Park - CO 152390
Matrix:	Equipment Blank Water	Laboratory ID:	24J3097-04	File ID:	24J3097-04.d
Sampled:	10/21/24 00:00	Prepared:	10/29/24 00:00	Analyzed:	11/02/24 17:16
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	503.84 mL / 5 mL				
Batch:	B390328	Sequence:	S113309	Calibration:	2401179
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON.		0.82	4.0	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.96	4.0	
763051-92-9	11Cl-PF3OUdS (F53B Major)		1.1	4.0	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.2	9.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	11UJ	11	50	V-05
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7::	9.4UJ	9.4	50	V-05
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.35	2.0	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.55	2.0	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.54	2.0	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.55	2.0	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-2_20241021
Sampled: 10/21/2024 10:20

Sample ID: 24J3097-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.05UJ ~~ND~~	0.050	0.025	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Barium	0.044	0.050	0.0098	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Calcium	140 J	0.50	0.21	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Iron	0.84	0.050	0.036	mg/L	1		SW-846 6010D	10/29/24	10/31/24 6:25	HNN
Lead	0.0083	0.010	0.0044	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Magnesium	44	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Manganese	0.014	0.010	0.0018	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	10/30/24	10/30/24 13:53	AAJ
Nickel	0.0060	0.010	0.0046	mg/L	1	J	SW-846 6010D	10/29/24	10/31/24 6:25	HNN
Potassium	5.6	2.0	0.47	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Sodium	20	2.0	0.38	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:47	MJH

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Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: MW-4_20241021
Sampled: 10/21/2024 12:15

Sample ID: 24J3097-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.31 J	0.050	0.025	mg/L	1	MS-22	SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Barium	0.078	0.050	0.0098	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Calcium	150 J	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Iron	0.68	0.050	0.036	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Lead	0.0090	0.010	0.0044	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Magnesium	39	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Manganese	0.35	0.010	0.0018	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	10/30/24	10/30/24 13:55	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	10/29/24	10/31/24 6:02	HNN
Potassium	6.5	2.0	0.47	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Sodium	8.2	2.0	0.38	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:01	MJH

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Project Location: Lackawanna, NY
Sample Description:
Work Order: 24J3097

Date Received: 10/22/2024

Field Sample #: DUP_20241021
Sampled: 10/21/2024 00:00

Sample ID: 24J3097-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.05 UJ ~~ND~~	0.050	0.025	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Barium	0.044	0.050	0.0098	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Calcium	130 J	0.50	0.21	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Chromium	0.0067	0.010	0.0053	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Iron	2.1	0.050	0.036	mg/L	1		SW-846 6010D	10/29/24	10/31/24 6:33	HNN
Lead	0.0068	0.010	0.0044	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Magnesium	43	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Manganese	0.018	0.010	0.0018	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	10/30/24	10/30/24 13:56	AAJ
Nickel	0.0068	0.010	0.0046	mg/L	1	J	SW-846 6010D	10/29/24	10/31/24 6:33	HNN
Potassium	5.5	2.0	0.47	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Sodium	20	2.0	0.38	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	10/29/24	10/30/24 18:52	MJH
Zinc	0.0081	0.010	0.0080	mg/L	1	J	SW-846 6010D	10/29/24	10/30/24 18:52	MJH

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390195 - Draft Method 1633										
Blank (B390195-BLK1)				Prepared & Analyzed: 10/23/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B390195-BS1)				Prepared & Analyzed: 10/23/24						
Total Suspended Solids	215	5.0	mg/L	200.0		108	51.5-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390132 - SW-846 3510C										
Blank (B390132-BLK1)				Prepared: 10/23/24 Analyzed: 10/28/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*4.84*		µg/L	4.000		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.59*		µg/L	4.000		115	30-150			
Surrogate: Tetrachloro-m-xylene	*3.61*		µg/L	4.000		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.55*		µg/L	4.000		88.8	30-150			
LCS (B390132-BS1)				Prepared: 10/23/24 Analyzed: 10/28/24						
Aroclor-1016	1.0	0.20	µg/L	1.000		102	40-140			
Aroclor-1016 [2C]	1.0	0.20	µg/L	1.000		104	40-140			
Aroclor-1260	1.3	0.20	µg/L	1.000		128	40-140			
Aroclor-1260 [2C]	1.2	0.20	µg/L	1.000		125	40-140			
Surrogate: Decachlorobiphenyl	*4.56*		µg/L	4.000		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.37*		µg/L	4.000		109	30-150			
Surrogate: Tetrachloro-m-xylene	*3.89*		µg/L	4.000		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.80*		µg/L	4.000		95.1	30-150			
LCS Dup (B390132-BSD1)				Prepared: 10/23/24 Analyzed: 10/28/24						
Aroclor-1016	0.87	0.20	µg/L	1.000		86.8	40-140	16.3	20	
Aroclor-1016 [2C]	0.88	0.20	µg/L	1.000		87.9	40-140	16.4	20	
Aroclor-1260	1.1	0.20	µg/L	1.000		108	40-140	17.1	20	
Aroclor-1260 [2C]	1.1	0.20	µg/L	1.000		105	40-140	17.2	20	
Surrogate: Decachlorobiphenyl	*4.09*		µg/L	4.000		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.92*		µg/L	4.000		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*3.13*		µg/L	4.000		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.08*		µg/L	4.000		77.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390132 - SW-846 3510C										
Matrix Spike (B390132-MS1)		**Source: 24J3097-02**		Prepared: 10/23/24 Analyzed: 10/29/24						
Aroclor-1016	0.96	0.20	µg/L	0.9826	ND	98.0	40-140			
Aroclor-1016 [2C]	0.90	0.20	µg/L	0.9826	ND	91.6	40-140			
Aroclor-1260	1.0	0.20	µg/L	0.9826	ND	107	40-140			
Aroclor-1260 [2C]	0.99	0.20	µg/L	0.9826	ND	100	40-140			
Surrogate: Decachlorobiphenyl	*2.88*		µg/L	3.930		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.72*		µg/L	3.930		69.2	30-150			
Surrogate: Tetrachloro-m-xylene	*3.30*		µg/L	3.930		83.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.20*		µg/L	3.930		81.4	30-150			
Matrix Spike Dup (B390132-MSD1)		**Source: 24J3097-02**		Prepared: 10/23/24 Analyzed: 10/29/24						
Aroclor-1016	0.91	0.19	µg/L	0.9371	ND	96.9	40-140	5.88	50	
Aroclor-1016 [2C]	0.88	0.19	µg/L	0.9371	ND	94.2	40-140	1.95	50	
Aroclor-1260	1.0	0.19	µg/L	0.9371	ND	109	40-140	2.56	50	
Aroclor-1260 [2C]	0.97	0.19	µg/L	0.9371	ND	104	40-140	1.60	50	
Surrogate: Decachlorobiphenyl	*3.17*		µg/L	3.748		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.01*		µg/L	3.748		80.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.92*		µg/L	3.748		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.87*		µg/L	3.748		76.6	30-150			

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B390132-BS1

Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	1.0	0.0 ✓
Aroclor-1260	1	0.000	0.000	0.000	1.3	
	2	0.000	0.000	0.000	1.2	8.0 ✓

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B390132-BSD1 Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.87	
	2	0.000	0.000	0.000	0.88	1.1 ✓
Aroclor-1260	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	0.0 ✓

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B390132-MS1 Date(s) Analyzed: 10/29/2024 10/29/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	0.90	6.5 ✓
Aroclor-1260	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	0.99	10.5 ✓

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B390132-MSD1 Date(s) Analyzed: 10/29/2024 10/29/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.88	3.4
Aroclor-1260	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	0.97	3.1

4 - FORM IV
METHOD BLANK SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballston Spa, NY	Project:	Lehigh Industrial Park - CO 152390
Blank ID:	B390328-BLK1 Batch: B390328	Prepared:	10/29/2024 00:00

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
MRL Check	B390328-MRL1	B390328-MRL1.d	01:44
LCS	B390328-BS1	B390328-BS1.d	02:00
Matrix Spike	B390328-MS1	B390328-MS1.d	02:15
Matrix Spike Dup	B390328-MSD1	B390328-MSD1.d	02:31
MW-2_20241021	24J3097-01	24J3097-01.d	16:28
MW-4_20241021	24J3097-02	24J3097-02.d	16:44
DUP_20241021	24J3097-03	24J3097-03.d	17:00
Equipment Blank	24J3097-04	24J3097-04.d	17:16

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-4_20241021

Laboratory:	Pace New England	Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballston Spa, NY	Project:	Lehigh Industrial Park - CO 152390
Matrix:	Water	Analysis:	Draft Method 1633
Batch:	B390328	Preparation:	Draft Method 1633
% Solids:		Laboratory ID:	B390328-MS1
Initial/Final:	508.29 mL / 5 mL	Sample Lab ID:	24J3097-02
Column:			

ANALYTE	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC.	QC LIMITS REC.
Perfluorobutanoic acid (PFBA)	94.43	ND	95.5	101	58 - 148
Perfluoropentanoic acid (PFPeA)	47.22	ND	49.5	105	54 - 152
Perfluorohexanoic acid (PFHxA)	23.61	1.65	27.8	111	55 - 152
Perfluoroheptanoic acid (PFHpA)	23.61	1.71	25.5	101	54 - 154
Perfluorooctanoic acid (PFOA)	23.61	14.5	39.3	105	52 - 161
Perfluorononanoic acid (PFNA)	23.61	ND	21.5	91.2	59 - 149
Perfluorodecanoic acid (PFDA)	23.61	0.253	23.0	96.3	52 - 147
Perfluoroundecanoic acid (PFUnA)	23.61	ND	25.1	106	48 - 159
Perfluorododecanoic acid (PFDoA)	23.61	ND	25.8	109	64 - 142
Perfluorotridecanoic acid (PFTrDA)	23.61	ND	26.8	114	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	23.61	ND	25.1	106	47 - 161
Perfluorobutanesulfonic acid (PFBS)	20.94	1.79	22.2	97.5	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	22.22	ND	22.9	103	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	21.58	1.80	21.3	90.3	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	22.50	ND	23.2	103	55 - 152
Perfluorooctanesulfonic acid (PFOS)	21.91	19.4	35.5	73.8	58 - 149
Perfluorononanesulfonic acid (PFNS)	22.71	ND	21.2	93.5	52 - 148
Perfluorodecanesulfonic acid (PFDS)	22.78	ND	21.8	95.6	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	22.90	ND	18.4	80.2	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.53	ND	96.2	109	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.71	ND	103	115	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.66	ND	109	120	63 - 152

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-4_20241021

Laboratory:	Pace New England	Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballston Spa, NY	Project:	Lehigh Industrial Park - CO 152390
Matrix:	Water	Analysis:	Draft Method 1633
Batch:	B390328	Preparation:	Draft Method 1633
% Solids:		Laboratory ID:	B390328-MS1
Initial/Final:	508.29 mL / 5 mL	Sample Lab ID:	24J3097-02
Column:			

ANALYTE	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC.		QC LIMITS REC.
Perfluorooctanesulfonamide (PFOSA)	23.61	ND	23.9	101		61 - 148
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.61	ND	23.4	99.1		63 - 145
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.61	ND	21.5	91.0		65 - 139
N-MeFOSAA (NMeFOSAA)	23.61	ND	24.6	104		58 - 144
N-EtFOSAA (NEtFOSAA)	23.61	ND	20.5	87.0		59 - 146
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	236.1	ND	211	89.5		71 - 136
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	236.1	ND	216	91.4		69 - 137
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.43	ND	117	124		63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	89.24	ND	137	153	*	68 - 146
9Cl-PF3ONS (F53B Minor)	88.30	ND	114	129		56 - 156
11Cl-PF3OUdS (F53B Major)	89.24	ND	85.4	95.7		46 - 156
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	236.1	ND	240	102		62 - 129
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1180	ND	1620	138	*	63 - 134
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	1180	ND	1460	124		50 - 138
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	42.02	ND	52.4	125		56 - 151
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.22	ND	18.0	38.2	*	51 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	47.22	ND	65.2	138		55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	47.22	ND	39.5	83.7		48 - 161

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-4_20241021

Laboratory:	Pace New England	Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballston Spa, NY	Project:	Lehigh Industrial Park - CO 152390
Matrix:	Water	Analysis:	Draft Method 1633
Batch:	B390328	Preparation:	Draft Method 1633
% Solids:		Laboratory ID:	B390328-MSD1
Initial/Final:	507.6 mL / 5 mL	Sample Lab ID:	24J3097-02
Column:			

ANALYTE	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Perfluorobutanoic acid (PFBA)	94.56	91.4	96.6	4.39	20	58 - 148
Perfluoropentanoic acid (PFPeA)	47.28	48.7	103	1.58	20	54 - 152
Perfluorohexanoic acid (PFHxA)	23.64	27.1	107	2.66	25	55 - 152
Perfluoroheptanoic acid (PFHpA)	23.64	24.6	96.7	3.69	25	54 - 154
Perfluorooctanoic acid (PFOA)	23.64	39.2	104	0.256	25	52 - 161
Perfluorononanoic acid (PFNA)	23.64	21.1	89.1	2.23	25	59 - 149
Perfluorodecanoic acid (PFDA)	23.64	20.9	87.5	9.32	25	52 - 147
Perfluoroundecanoic acid (PFUnA)	23.64	25.7	109	2.26	30	48 - 159
Perfluorododecanoic acid (PFDoA)	23.64	24.8	105	3.80	25	64 - 142
Perfluorotridecanoic acid (PFTrDA)	23.64	26.5	112	1.28	25	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	23.64	23.3	98.5	7.61	25	47 - 161
Perfluorobutanesulfonic acid (PFBS)	20.97	22.2	97.3	0.122	20	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	22.25	24.9	112	8.24	25	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	21.61	21.1	89.3	0.937	25	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	22.53	22.7	101	2.39	25	55 - 152
Perfluorooctanesulfonic acid (PFOS)	21.94	36.1	76.1	1.47	20	58 - 149
Perfluorononanesulfonic acid (PFNS)	22.74	20.8	91.3	2.27	25	52 - 148
Perfluorodecanesulfonic acid (PFDS)	22.81	21.8	95.6	0.188	25	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	22.93	18.9	82.4	2.81	30	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.65	96.4	109	0.116	25	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.83	99.6	111	3.37	30	61 - 151

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-4_20241021

Laboratory:	Pace New England	Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballston Spa, NY	Project:	Lehigh Industrial Park - CO 152390
Matrix:	Water	Analysis:	Draft Method 1633
Batch:	B390328	Preparation:	Draft Method 1633
% Solids:		Laboratory ID:	B390328-MSD1
Initial/Final:	507.6 mL / 5 mL	Sample Lab ID:	24J3097-02
Column:			

ANALYTE	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.78	95.5	105		12.8	30	63 - 152
Perfluorooctanesulfonamide (PFOSA)	23.64	23.9	101		0.105	20	61 - 148
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.64	22.5	95.4		3.75	25	63 - 145
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.64	21.5	90.8		0.168	25	65 - 139
N-MeFOSAA (NMeFOSAA)	23.64	23.4	98.9		4.99	25	58 - 144
N-EtFOSAA (NEtFOSAA)	23.64	20.1	84.9		2.26	25	59 - 146
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	236.4	205	86.7		3.06	20	71 - 136
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	236.4	216	91.3		0.0744	25	69 - 137
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.56	115	122		1.77	25	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	89.36	141	158	*	3.26	20	68 - 146
9Cl-PF3ONS (F53B Minor)	88.42	116	131		1.91	30	56 - 156
11Cl-PF3OUdS (F53B Major)	89.36	88.7	99.3		3.79	35	46 - 156
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	236.4	254	107		5.54	20	62 - 129
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1182	1620	137	*	0.0894	20	63 - 134
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	1182	1490	126		2.02	25	50 - 138
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	42.08	51.9	123		1.04	20	56 - 151
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.28	19.2	40.7	*	6.46	25	51 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	47.28	63.6	135		2.45	20	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	47.28	37.6	79.5		4.98	35	48 - 161

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballston Spa, NY	Project:	Lehigh Industrial Park - CO 152390
Matrix:	Water	Preparation:	Draft Method 1633
Batch:	B390328	Laboratory ID:	B390328-BS1
Column:		Initial/Final:	510.11 mL / 5 mL

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC.	QC LIMITS REC.
Perfluorobutanoic acid (PFBA)	94.10	90.4	96.0	58 - 148
Perfluoropentanoic acid (PFPeA)	47.05	48.2	102	54 - 152
Perfluorohexanoic acid (PFHxA)	23.52	25.0	106	55 - 152
Perfluoroheptanoic acid (PFHpA)	23.52	23.0	97.6	54 - 154
Perfluorooctanoic acid (PFOA)	23.52	24.9	106	52 - 161
Perfluorononanoic acid (PFNA)	23.52	20.3	86.4	59 - 149
Perfluorodecanoic acid (PFDA)	23.52	21.6	91.8	52 - 147
Perfluoroundecanoic acid (PFUnA)	23.52	25.9	110	48 - 159
Perfluorododecanoic acid (PFDoA)	23.52	25.0	106	64 - 142
Perfluorotridecanoic acid (PFTrDA)	23.52	26.0	111	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	23.52	23.2	98.7	47 - 161
Perfluorobutanesulfonic acid (PFBS)	20.87	20.8	99.5	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	22.14	24.3	110	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	21.50	21.4	99.7	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	22.42	23.7	106	55 - 152
Perfluorooctanesulfonic acid (PFOS)	21.83	22.0	101	58 - 149
Perfluorononanesulfonic acid (PFNS)	22.63	24.2	107	52 - 148
Perfluorodecanesulfonic acid (PFDS)	22.70	25.1	111	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	22.82	21.6	94.7	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.22	105	119	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.39	95.1	106	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.33	100	111	63 - 152
Perfluorooctanesulfonamide (PFOSA)	23.52	24.5	104	61 - 148
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.52	22.0	93.4	63 - 145
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.52	20.2	86.0	65 - 139
N-MeFOSAA (NMeFOSAA)	23.52	23.4	99.4	58 - 144
N-EtFOSAA (NEtFOSAA)	23.52	19.9	84.7	59 - 146
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	235.2	210	89.2	71 - 136
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	235.2	222	94.3	69 - 137
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.10	116	123	63 - 144

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24J3097
Client:	NYDEC_Labella Associates - Ballston Spa, NY	Project:	Lehigh Industrial Park - CO 152390
Matrix:	Water	Preparation:	Draft Method 1633
Batch:	B390328	Laboratory ID:	B390328-BS1
Column:		Initial/Final:	510.11 mL / 5 mL

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC.	QC LIMITS REC.
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	88.92	104	117	68 - 146
9Cl-PF3ONS (F53B Minor)	87.98	86.7	98.5	56 - 156
11Cl-PF3OUdS (F53B Major)	88.92	74.3	83.6	46 - 156
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	235.2	228	96.9	62 - 129
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA) (5:3FTCA)	1176	1080	91.4	63 - 134
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1176	1040	88.0	50 - 138
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	41.87	46.8	112	56 - 151
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.05	49.5	105	51 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	47.05	54.3	115	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	47.05	61.2	130	48 - 161

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A										
Blank (B390832-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B390832-BLK2)				Prepared: 10/29/24 Analyzed: 10/31/24						
Nickel	ND	0.010	mg/L							
LCS (B390832-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	0.519	0.050	mg/L	0.5000		104	80-120			
Antimony	0.501	0.050	mg/L	0.5000		100	80-120			
Arsenic	0.481	0.010	mg/L	0.5000		96.2	80-120			
Barium	0.513	0.050	mg/L	0.5000		103	80-120			
Beryllium	0.537	0.0040	mg/L	0.5000		107	80-120			
Cadmium	0.502	0.0040	mg/L	0.5000		100	80-120			
Calcium	4.15	0.50	mg/L	4.000		104	80-120			
Chromium	0.512	0.010	mg/L	0.5000		102	80-120			
Cobalt	0.512	0.010	mg/L	0.5000		102	80-120			
Copper	1.01	0.010	mg/L	1.000		101	80-120			
Iron	4.30	0.050	mg/L	4.000		108	80-120			
Lead	0.515	0.010	mg/L	0.5000		103	80-120			
Magnesium	4.05	0.050	mg/L	4.000		101	80-120			
Manganese	0.512	0.010	mg/L	0.5000		102	80-120			
Potassium	4.20	2.0	mg/L	4.000		105	80-120			
Selenium	0.515	0.050	mg/L	0.5000		103	80-120			
Silver	0.530	0.010	mg/L	0.5000		106	80-120			
Sodium	4.14	2.0	mg/L	4.000		104	80-120			
Thallium	0.491	0.050	mg/L	0.5000		98.1	80-120			
Vanadium	0.501	0.010	mg/L	0.5000		100	80-120			
Zinc	1.02	0.010	mg/L	1.000		102	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A										
LCS (B390832-BS2)				Prepared: 10/29/24 Analyzed: 10/31/24						
Nickel	0.550	0.010	mg/L	0.5000		110	80-120			
LCS Dup (B390832-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	0.550	0.050	mg/L	0.5000		110	80-120	5.78	30	
Antimony	0.505	0.050	mg/L	0.5000		101	80-120	0.744	20	
Arsenic	0.481	0.010	mg/L	0.5000		96.2	80-120	0.0609	20	
Barium	0.512	0.050	mg/L	0.5000		102	80-120	0.211	20	
Beryllium	0.550	0.0040	mg/L	0.5000		110	80-120	2.43	20	
Cadmium	0.502	0.0040	mg/L	0.5000		100	80-120	0.0580	20	
Calcium	4.38	0.50	mg/L	4.000		109	80-120	5.21	20	
Chromium	0.512	0.010	mg/L	0.5000		102	80-120	0.00598	20	
Cobalt	0.513	0.010	mg/L	0.5000		103	80-120	0.307	20	
Copper	1.01	0.010	mg/L	1.000		101	80-120	0.0533	20	
Iron	4.52	0.050	mg/L	4.000		113	80-120	4.92	20	
Lead	0.515	0.010	mg/L	0.5000		103	80-120	0.137	20	
Magnesium	4.24	0.050	mg/L	4.000		106	80-120	4.58	20	
Manganese	0.536	0.010	mg/L	0.5000		107	80-120	4.61	20	
Potassium	4.44	2.0	mg/L	4.000		111	80-120	5.46	20	
Selenium	0.515	0.050	mg/L	0.5000		103	80-120	0.0858	20	
Silver	0.531	0.010	mg/L	0.5000		106	80-120	0.200	20	
Sodium	4.24	2.0	mg/L	4.000		106	80-120	2.25	20	
Thallium	0.504	0.050	mg/L	0.5000		101	80-120	2.73	20	
Vanadium	0.502	0.010	mg/L	0.5000		100	80-120	0.234	20	
Zinc	1.02	0.010	mg/L	1.000		102	80-120	0.280	20	
LCS Dup (B390832-BSD2)				Prepared: 10/29/24 Analyzed: 10/31/24						
Nickel	0.551	0.010	mg/L	0.5000		110	80-120	0.194	30	
Matrix Spike (B390832-MS1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	0.939	0.050	mg/L	0.5000	0.308	**126** *	75-125			MS-22
Antimony	0.534	0.050	mg/L	0.5000	ND	107	75-125			
Arsenic	0.498	0.010	mg/L	0.5000	ND	99.6	75-125			
Barium	0.593	0.050	mg/L	0.5000	0.0776	103	75-125			
Beryllium	0.563	0.0040	mg/L	0.5000	ND	113	75-125			
Cadmium	0.511	0.0040	mg/L	0.5000	ND	102	75-125			
Calcium	152	0.50	mg/L	4.000	146	**155** *	75-125			MS-19
Chromium	0.523	0.010	mg/L	0.5000	ND	105	75-125			
Cobalt	0.491	0.010	mg/L	0.5000	ND	98.3	75-125			
Copper	1.03	0.010	mg/L	1.000	ND	103	75-125			
Iron	5.19	0.050	mg/L	4.000	0.684	113	75-125			
Lead	0.513	0.010	mg/L	0.5000	0.00896	101	75-125			
Magnesium	43.4	0.050	mg/L	4.000	39.2	105	75-125			
Manganese	0.877	0.010	mg/L	0.5000	0.350	105	75-125			
Potassium	10.8	2.0	mg/L	4.000	6.46	109	75-125			
Selenium	0.507	0.050	mg/L	0.5000	ND	101	75-125			
Silver	0.544	0.010	mg/L	0.5000	ND	109	75-125			
Sodium	12.5	2.0	mg/L	4.000	8.16	110	75-125			
Thallium	0.515	0.050	mg/L	0.5000	ND	103	75-125			
Vanadium	0.524	0.010	mg/L	0.5000	ND	105	75-125			
Zinc	0.992	0.010	mg/L	1.000	ND	99.2	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A										
Matrix Spike (B390832-MS2)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/31/24						
Nickel	0.524	0.010	mg/L	0.5000	ND	105	75-125			
Matrix Spike Dup (B390832-MSD1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	0.866	0.050	mg/L	0.5000	0.308	112	75-125	8.10	20	
Antimony	0.519	0.050	mg/L	0.5000	ND	104	75-125	3.03	20	
Arsenic	0.487	0.010	mg/L	0.5000	ND	97.4	75-125	2.17	20	
Barium	0.569	0.050	mg/L	0.5000	0.0776	98.3	75-125	4.11	20	
Beryllium	0.539	0.0040	mg/L	0.5000	ND	108	75-125	4.38	20	
Cadmium	0.491	0.0040	mg/L	0.5000	ND	98.2	75-125	3.95	20	
Calcium	146	0.50	mg/L	4.000	146	**14.5** *	75-125	3.78	20	MS-19
Chromium	0.502	0.010	mg/L	0.5000	ND	100	75-125	4.08	20	
Cobalt	0.472	0.010	mg/L	0.5000	ND	94.4	75-125	4.00	20	
Copper	0.983	0.010	mg/L	1.000	ND	98.3	75-125	4.47	20	
Iron	4.92	0.050	mg/L	4.000	0.684	106	75-125	5.32	20	
Lead	0.501	0.010	mg/L	0.5000	0.00896	98.3	75-125	2.48	20	
Magnesium	42.5	0.050	mg/L	4.000	39.2	83.0	75-125	2.04	20	
Manganese	0.850	0.010	mg/L	0.5000	0.350	100	75-125	3.19	20	
Potassium	10.5	2.0	mg/L	4.000	6.46	102	75-125	2.60	20	
Selenium	0.508	0.050	mg/L	0.5000	ND	102	75-125	0.116	20	
Silver	0.522	0.010	mg/L	0.5000	ND	104	75-125	4.03	20	
Sodium	12.2	2.0	mg/L	4.000	8.16	100	75-125	3.02	20	
Thallium	0.499	0.050	mg/L	0.5000	ND	99.9	75-125	3.12	20	
Vanadium	0.502	0.010	mg/L	0.5000	ND	100	75-125	4.32	20	
Zinc	0.953	0.010	mg/L	1.000	ND	95.3	75-125	4.06	20	
Matrix Spike Dup (B390832-MSD2)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/31/24						
Nickel	0.511	0.010	mg/L	0.5000	ND	102	75-125	2.44	20	
Post Spike (B390832-PS1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24						
Aluminum	2.43		mg/L	2.000	0.302	106	75-125			
Antimony	2.04		mg/L	2.000	0.00862	102	75-125			
Arsenic	1.95		mg/L	2.000	-0.00673	97.6	75-125			
Barium	2.06		mg/L	2.000	0.0760	99.3	75-125			
Beryllium	2.13		mg/L	2.000	0.0000992	107	75-125			
Cadmium	1.98		mg/L	2.000	0.000219	98.8	75-125			
Calcium	160		mg/L	16.00	143	108	75-125			
Chromium	2.01		mg/L	2.000	0.00373	101	75-125			
Cobalt	1.90		mg/L	2.000	0.00191	94.8	75-125			
Copper	4.00		mg/L	4.000	-0.000613	100	75-125			
Iron	17.6		mg/L	16.00	0.670	106	75-125			
Lead	1.95		mg/L	2.000	0.00878	97.2	75-125			
Magnesium	54.5		mg/L	16.00	38.4	101	75-125			
Manganese	2.36		mg/L	2.000	0.343	101	75-125			
Potassium	23.6		mg/L	16.00	6.33	108	75-125			
Selenium	2.02		mg/L	2.000	-0.0108	101	75-125			
Silver	2.01		mg/L	2.000	-0.00239	100	75-125			
Sodium	24.4		mg/L	16.00	7.99	103	75-125			
Thallium	2.13		mg/L	2.000	-0.00507	107	75-125			
Vanadium	2.02		mg/L	2.000	0.00491	101	75-125			
Zinc	3.81		mg/L	4.000	0.00314	95.3	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390832 - SW-846 3005A										
Dilution Check (B390832-SRL1)		**Source: 24J3097-02**		Prepared: 10/29/24 Analyzed: 10/30/24						
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	0.0800	0.25	mg/L		0.0776			3.05	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	151	2.5	mg/L		146			3.70	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.707	0.25	mg/L		0.684			3.29	20	
Lead	ND	0.050	mg/L		ND				20	
Magnesium	41.2	0.25	mg/L		39.2			5.11	20	
Manganese	0.369	0.050	mg/L		0.350			5.10	20	
Potassium	7.05	10	mg/L		6.46			8.66	20	J
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	8.43	10	mg/L		8.16			3.35	20	J
Thallium	ND	0.25	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	
Zinc	ND	0.050	mg/L		ND				20	
Batch B390879 - SW-846 7470A Prep										
Blank (B390879-BLK1)				Prepared & Analyzed: 10/30/24						
Mercury	ND	0.00020	mg/L							
LCS (B390879-BS1)				Prepared & Analyzed: 10/30/24						
Mercury	0.00394	0.00020	mg/L	0.004020		97.9	80-120			
LCS Dup (B390879-BSD1)				Prepared & Analyzed: 10/30/24						
Mercury	0.00395	0.00020	mg/L	0.004020		98.2	80-120	0.279	20	
Matrix Spike (B390879-MS1)		**Source: 24J3097-02**		Prepared & Analyzed: 10/30/24						
Mercury	0.00389	0.00020	mg/L	0.004020	ND	96.7	75-125			
Matrix Spike Dup (B390879-MSD1)		**Source: 24J3097-02**		Prepared & Analyzed: 10/30/24						
Mercury	0.00401	0.00020	mg/L	0.004020	ND	99.8	75-125	3.12	20	