NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau E
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www.dec.ny.gov

September 22, 2023

Mr. George Meyers, Supervisor
Town of New Windsor
555 Union Avenue
New Windsor, New York 12553

Re: New Windsor Public Water Supply Well Sample Results
Kroll Well, New Windsor (T), Orange County

Dear Supervisor George Meyers:

The New York State Department of Environmental Conservation (DEC) is providing you with a copy of analytical results derived from the August 28, 2023 sampling of the granular activated carbon (GAC) water treatment system by DEC representatives that was installed on the Town of New Windsor (Town) Kroll Well located at 354 Mount Airy Road.

No PFOS or PFOA was detected in the Kroll Well GAC-treated water. The NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

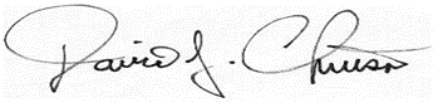
Specifically, the samples were analyzed for a total of twenty-five per- and polyfluoroalkyl substances (PFAS), including Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS). Data received for the 25 PFAS list analysis has been attached. During this event, sampling for the 25 PFAS list was conducted at 9 locations:

- pre-treatment (raw untreated water), which has a “RAW WATER” identifier in the Client Sample ID;
- 25 % treatment – lead tank (A-25 identifier);
- 50 % treatment – lead tank (A-50 identifier);
- 75 % treatment – lead tank (A-75 identifier);
- mid-treatment (after the first GAC canister and prior to the second GAC canister), which has a “MID POINT” identifier in the Client Sample ID;
- 25 % treatment – lag tank (B-25 identifier);
- 50 % treatment – lag tank (B-50 identifier);
- 75 % treatment – lag tank (B-75 identifier); and
- post-treatment (after the entire treatment system), which has a “EFFLUENT” identifier in the Client Sample ID.

The 9 locations sampled (and their associated identifiers) are depicted in Figure 1. Please note that the next sampling event will be scheduled around November 2023.

If you have any technical questions regarding the analytical results or on the operation and performance of the GAC treatment system, please feel free to contact me or Meghan Miller, EA Science and Technology (DEC's Project Engineer) at (315) 565-6557 or mmiller@eaest.com . For weekday or off hour / weekend emergency repair issues, please call DEC's contractor, Brian Neumann of Precision Environmental Services at (518) 441-1520 (cell). For questions regarding site-related health concerns, please contact Steve Gagnon of the Orange County DOH at (845) 291-2331 or Steve Gladding of the NYSDOH Bureau of Water Supply Protection at (518) 402-7688.

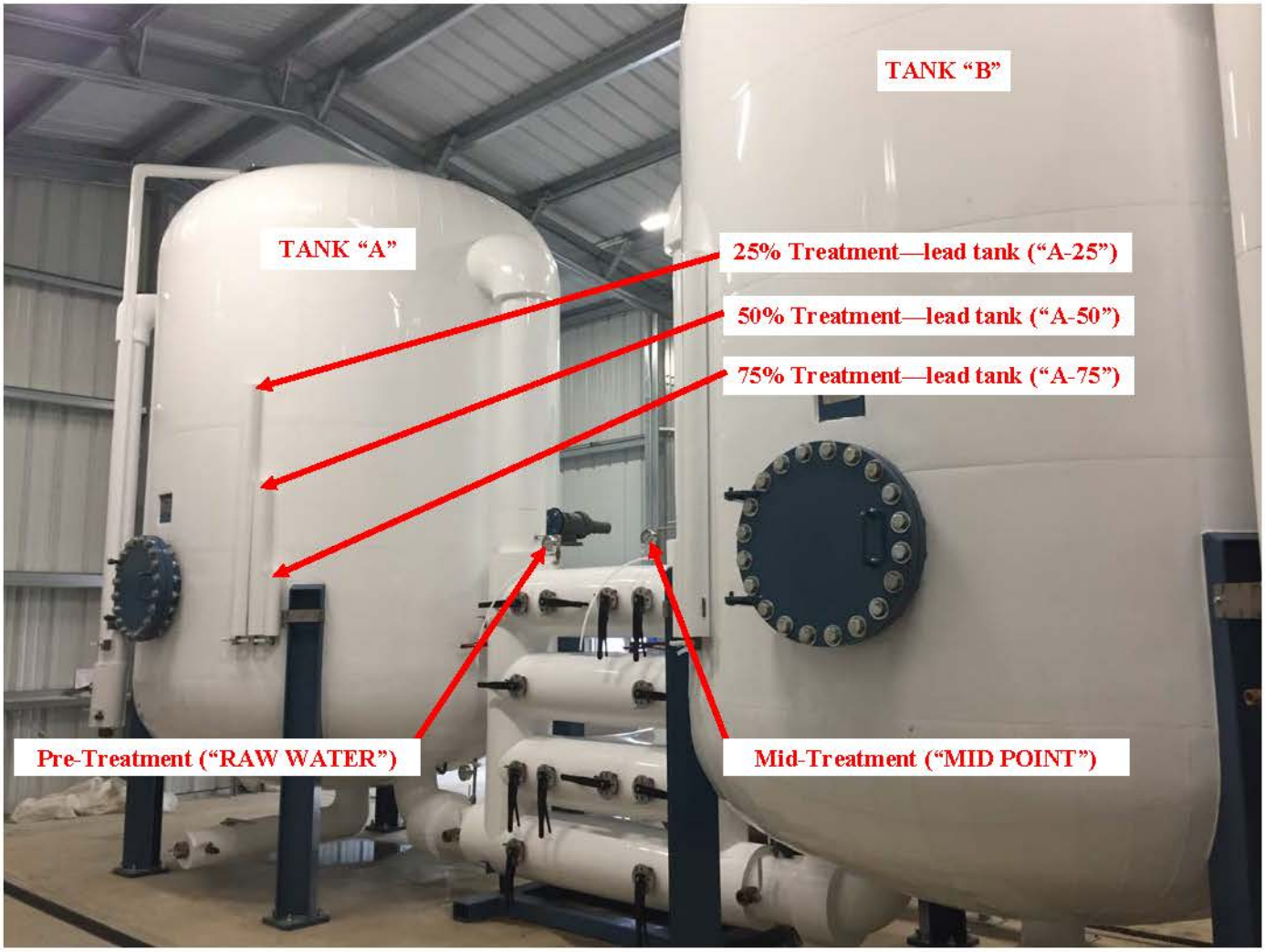
Sincerely,



David J. Chiusano
Environmental Engineer/Project Manager
Remedial Section A, Remedial Bureau E
Division of Environmental Remediation

Enclosures

ec: w/enclosures
D. Zagon, Town of New Windsor
J. Marina, Town of New Windsor
J. Egitto, Town of New Windsor
K. Rea, Town of New Windsor
J. Conrad, PVE LLC
C. Brown, PVE LLC
M. Weeks, MHE
K. Wheeler, NYSDOH
S. Gagnon, OCDOH
M. Andersen, OCDOH
M. Miller, EA Engineering
B. Neumann, PES
M. Cruden, NYSDEC
B. Rung, NYSDEC
D. Pollack, Region 3 DER



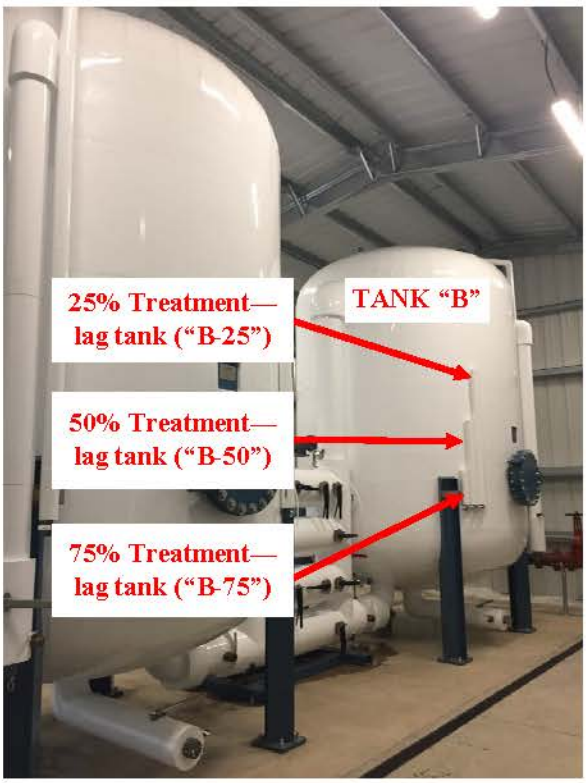


Figure 1—Kroll Well GAC Treatment System Sampling Locations

Town of New Windsor

Kroll Well GAC Operation and Maintenance PFOA and PFOS Sampling Results ** (Parts Per Trillion (PPT))

(Last updated: August 2023)

Date	Analyte	Result [1] Raw Water	Result A25	Result[2] A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	Proposed NYS MCLs
September 2019 (Based on 21 PFAS Analysis Data only)	PFOA	8.4	ND	6.1	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	14	ND	7.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
October 2019 (Based on 21 PFAS Analysis Data only)	PFOA	7.9	6.5	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	13	8.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
November 2019 (Based on 21 PFAS Analysis Data only)	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	10	8.4	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
December 2019 (Based on 21 PFAS Analysis Data only)	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
January 2020 (Based on 21 PFAS Analysis Data only)	PFOA	11	10	2.2	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
February 2020 (Based on 21 PFAS Analysis Data only)	PFOA	11	9.9	3.3	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.7	8.4	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]

Notes:

** 21 PFAS List Analysis.

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is currently 70 ppt.
5. The proposed NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

Town of New Windsor

Kroll Well GAC Operation and Maintenance PFOA and PFOS Sampling Results ** (Parts Per Trillion (PPT)) Continued

(Last updated: August 2023)

Date	Analyte	Result [1] Raw Water	Result A25	Result[2] A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	NYS MCLs
March 2020 (Based on 21 PFAS Analysis Data only)	PFOA	9.3	9.2	4.2	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.6	11	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
April 2020 (Based on 21 PFAS Analysis Data only)	PFOA	8.7	8.4	4.3	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	8.9	7.7	1.9	ND	ND	ND	ND	ND	ND	70[4]	10[5]
May 2020 (Based on 21 PFAS Analysis Data only)	PFOA	ND	7.9	4.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	11.0	7.7	2.0	ND	ND	ND	ND	ND	ND	70[4]	10[5]
August 2020 (Based on 21 PFAS Analysis Data only)	PFOA	9.4	9.2	6.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	11.0	11.0	4.5	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	GAC CHANGE COMPLETED BY NYSDEC IN NOVEMBER 2020											
February 2021 (Based on 21 PFAS Analysis Data only)	PFOA	7.5	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	6.7	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
May 2021 (Based on 21 PFAS Analysis Data only)	PFOA	9.1	5.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	7.4	2.6	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]

Notes:

** 21 PFAS List Analysis.

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is 70 ppt.
5. Effective August 2020 the NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

Town of New Windsor

Kroll Well GAC Operation and Maintenance PFOA and PFOS Sampling Results *** (Parts Per Trillion (PPT)) Continued

(Last updated: August 2023)

Date	Analyte	Result [1] Raw Water	Result A25	Result[2] A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	NYS MCLs
August 2021** (Based on 21 PFAS Analysis Data only)	PFOA	7.0	4.9	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	8.0	4.3	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
November 2021*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	7.6	6.4	3.6	0.72	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.4	6.1	1.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
March 2022*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	7.6	6.1	4.1	0.92	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.5	4.5	1.6	ND	ND	ND	ND	ND	ND	70[4]	10[5]
May 2022*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	7.4	7.9	4.6	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	7.3	3.9	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
August 2022*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	6.1	ND	4.8	2.1	ND	ND	ND	6.6	ND	70[4]	10[5]
	PFOS	7.9	ND	ND	ND	ND	ND	ND	3.1	ND	70[4]	10[5]
	GAC CHANGE COMPLETED BY NYSDEC IN NOVEMBER-DECEMBER 2022											
February 2023*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	17.0	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	12.0	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]

Notes:

** 21 PFAS List Analysis

*** 25 PFAS List Analysis Via USEPA Method 533

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is 70 ppt.
5. Effective August 2020 the NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

Town of New Windsor

Kroll Well GAC Operation and Maintenance PFOA and PFOS Sampling Results *** (Parts Per Trillion (PPT)) Continued

(Last updated: August 2023)

Date	Analyte	Result [1] Raw Water	Result A25	Result[2] A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	NYS MCLs
July 2023* (Based on 25 PFAS Analysis Data (EPA Method 533))**	PFOA	8.4	2.7	1.2	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	7.0	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
August 2023* (Based on 25 PFAS Analysis Data (EPA Method 533))**	PFOA	11.0	5.8	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	11.0	1.3	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]

Notes:

** 21 PFAS List Analysis

*** 25 PFAS List Analysis Via USEPA Method 533

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is 70 ppt.
5. Effective August 2020 the NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

How to Read Your Laboratory Reports

PFOA and PFOS Results:

- Analyte is the term used to describe what the laboratory was testing for, in this case PFOS and PFOA.
- Conc. (ng/l) is your result for PFOS and PFOA. In your case, no PFOS and PFOA were detected, thus ND or "non-detect" or <2.0 ng/l was reported. (ng/l = ppt)
- RL = reporting limit or RDL = reportable detection limit is the lowest level at which this specific testing protocol and laboratory has confidence in measuring the given analyte.
- Qualifiers are added information to help understand the quality of the data. Often, if something about the results or the calibration of the testing equipment was irregular, it would be reported here.

All other columns represent laboratory quality control information. The laboratory calibrates its equipment against a precise quantity of the chemical in order to ensure that the equipment is functioning properly. Some laboratory reports may not have all this information.

- Labeled Standard or Surrogate is the lab's specific name for an individual control sample.
- %R is the percent of the control sample that was detected by the equipment. A 100% reading represents perfect equipment alignment.
- LCL-UCL is the lower concentration limit (LCL) and upper concentration limit (UCL). The LCL represents the lowest acceptable %R value and the UCL represent the highest acceptable %R value required to ensure your result is accurate.
- Qualifiers: If a result quality control variance is noted or I the %R value of any of the control samples were outside the allowable range that would have been noted in this last column. This gives the analyst less confidence in the measured value.

The analysis for PFOS and PFOA is performed using modified EPA Method 537. The laboratory may report a detection of PFOS and PFOA down to approximately 2.0 nanograms per liter (ng/l) or parts per trillion (ppt).

Inorganic Results:

- Parameter is the same as "analyte" above – it is the chemical being tested.
- Result is the concentration of that chemical detected.
- RL/PQL is the lowest level at which the specific laboratory test can reliably quantify the concentration. Below that number, the result is considered unreliable.
- DIL is the number of times the sample was diluted (necessary because the test has a certain range that it is accurate for).
- Units: mg/l is milligrams per liter or parts per million; ug/l is micrograms per liter or parts per billion.
- DW MCL stands for drinking water (DW) and "maximum contaminant level" (MCL). All chemicals that have a "maximum contaminant level" (MCL) established for drinking water (DW) have a level reported in this column.

- Sec Goal is the EPA nomenclature for all contaminants that have regulatory levels set based on aesthetics (for example, taste or color). DOH recognizes these EPA secondary goals as primary standards and enforces its drinking water quality program accordingly.
- Date/Time represents the date and time of the analysis at the lab.
- By refers to the technician who ran the test.
- Reference indicates the EPA method used in the test.

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A Pace Analytical® Laboratory

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

September 21, 2023

Dave Chiusano
NYDEC_Precision Environmental Services, Inc
625 Broadway, 12th Floor
Albany, NY 12233

Project Location: 351 Mount Airy RD, New Windosr, NY
Client Job Number:
Project Number: 336089
Laboratory Work Order Number: 23H4428

Enclosed are results of analyses for samples as received by the laboratory on August 30, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle A. Murray
Project Manager

Table of Contents

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

NYDEC_Precision Environmental Services, Inc
625 Broadway, 12th Floor
Albany, NY 12233
ATTN: Dave Chiusano

REPORT DATE: 9/21/2023

PURCHASE ORDER NUMBER: 141588

PROJECT NUMBER: 336089

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23H4428

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

PROJECT LOCATION: 351 Mount Airy RD, New Windosr, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Effluent	23H4428-01	Drinking Water		EPA 533	
B-75	23H4428-02	Drinking Water		EPA 533	
B-50	23H4428-03	Drinking Water		EPA 533	
B-25	23H4428-04	Drinking Water		EPA 533	
Mid Point	23H4428-05	Drinking Water		EPA 533	
A-75	23H4428-06	Drinking Water		EPA 533	
A-50	23H4428-07	Drinking Water		EPA 533	
A-25	23H4428-08	Drinking Water		EPA 533	
Raw Water	23H4428-09	Drinking Water		EPA 533	
Duplicate	23H4428-10	Drinking Water		EPA 533	

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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.

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

EPA 533

Qualifications:

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:

6:2 Fluorotelomersulfonic acid (6:2
B352010-MS1, B352010-MSD1

Perfluorobutanoic acid (PFBA)
B352010-MS1, B352010-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:

Perfluorooctanoic acid (PFOA)
B352010-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:

M2-6:2FTS
B350895-BLK1

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

M3HFPO-DA
23H4428-01[Effluent], 23H4428-02RE1[B-75], B350895-MSD1

M4PFHpA
23H4428-01[Effluent], 23H4428-02RE1[B-75], 23H4428-03RE1[B-50], B350895-MSD1

M5PFHxA
23H4428-01[Effluent], 23H4428-02RE1[B-75], B350895-MSD1

M6PFDA
23H4428-01[Effluent], 23H4428-02RE1[B-75], 23H4428-05RE1[Mid Point]

M7PFUnA
23H4428-01[Effluent]

M8PFOA
23H4428-01[Effluent], 23H4428-02RE1[B-75]

M9PFNA
23H4428-01[Effluent], 23H4428-02RE1[B-75], 23H4428-03RE1[B-50], 23H4428-05RE1[Mid Point], 23H4428-06RE1[A-75], B350895-MSD1

MPFDoA
23H4428-01[Effluent]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-6:2FTS
B350895-BS1

M5PFPeA
B350895-MSD1

M6PFDA
23H4428-03RE1[B-50], 23H4428-06RE1[A-75]

M7PFUnA
23H4428-03RE1[B-50], 23H4428-05RE1[Mid Point], 23H4428-06RE1[A-75]

M8PFOA
23H4428-03RE1[B-50]

MPFBA
B350895-MSD1

MPFDoA
23H4428-03RE1[B-50]

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

V-06

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

Analyte & Samples(s) Qualified:

Perfluorononanoic acid (PFNA)
23H4428-09[Raw Water], S093390-CCV3

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

11Cl-PF3OUdS (F53B Major)
S093390-CCV4, S093390-CCV5

9Cl-PF3ONS (F53B Minor)
S093390-CCV3, S093390-CCV5

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.

Lisa A. Worthington
Technical Representative

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

Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: Effluent Sampled: 8/28/2023 11:00

Sample ID: 23H4428-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8	0.62		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.40		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.51		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.52		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.60		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.68		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.67		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.77		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.56		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorodecanoic acid (PFDA)	ND	1.8	0.48		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.44		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.66		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.30		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.46		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.63		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.32		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.64		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.3		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.49		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.45		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.70		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.78		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorooctanoic acid (PFOA)	ND	1.8	0.67		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.40		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS
Perfluorononanoic acid (PFNA)	ND	1.8	0.47		ng/L	1		EPA 533	9/12/23	9/13/23 18:39	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	59.6		50-200		9/13/23 18:39
M2-8:2FTS	87.6		50-200		9/13/23 18:39
MPFBA	53.8		50-200		9/13/23 18:39
M3HFPO-DA	**45.6**	*	50-200	PF-18	9/13/23 18:39
M6PFDA	**47.6**	*	50-200	PF-18	9/13/23 18:39
M3PFBS	74.6		50-200		9/13/23 18:39
M7PFUnA	**48.6**	*	50-200	PF-18	9/13/23 18:39
M2-6:2FTS	191		50-200		9/13/23 18:39
M5PFPeA	55.5		50-200		9/13/23 18:39
M5PFHxA	**42.5**	*	50-200	PF-18	9/13/23 18:39
M3PFHxS	67.2		50-200		9/13/23 18:39
M4PFHpA	**44.1**	*	50-200	PF-18	9/13/23 18:39
M8PFOA	**49.5**	*	50-200	PF-18	9/13/23 18:39
M8PFOS	73.1		50-200		9/13/23 18:39
M9PFNA	**41.9**	*	50-200	PF-18	9/13/23 18:39
MPFDoA	**49.7**	*	50-200	PF-18	9/13/23 18:39

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: B-75 Sampled: 8/28/2023 11:10

Sample ID: 23H4428-02

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8	0.64		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.41		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.52		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.53		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.62		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.80		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.57		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.45		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.68		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.31		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.48		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.65		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.33		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.4		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.51		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.46		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.72		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.81		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.41		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW
Perfluorononanoic acid (PFNA)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:16	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	54.2		50-200		9/20/23 12:16
M2-8:2FTS	85.9		50-200		9/20/23 12:16
MPFBA	57.7		50-200		9/20/23 12:16
M3HFPO-DA	**47.7**	*	50-200	PF-18	9/20/23 12:16
M6PFDA	**49.1**	*	50-200	PF-18	9/20/23 12:16
M3PFBS	85.2		50-200		9/20/23 12:16
M7PFUnA	52.9		50-200		9/20/23 12:16
M2-6:2FTS	109		50-200		9/20/23 12:16
M5PFPeA	54.5		50-200		9/20/23 12:16
M5PFHxA	**46.2**	*	50-200	PF-18	9/20/23 12:16
M3PFHxS	86.7		50-200		9/20/23 12:16
M4PFHpA	**43.0**	*	50-200	PF-18	9/20/23 12:16
M8PFOA	**43.7**	*	50-200	PF-18	9/20/23 12:16
M8PFOS	87.7		50-200		9/20/23 12:16
M9PFNA	**47.2**	*	50-200	PF-18	9/20/23 12:16
MPFDoA	54.5		50-200		9/20/23 12:16

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: B-50 Sampled: 8/28/2023 11:15

Sample ID: 23H4428-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8	0.64		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.42		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.53		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.54		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.63		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.80		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.58		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.45		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.31		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.48		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.34		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.4		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.51		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.47		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.73		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.81		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.42		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW
Perfluorononanoic acid (PFNA)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:24	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	54.5		50-200		9/20/23 12:24
M2-8:2FTS	96.9		50-200		9/20/23 12:24
MPFBA	60.9		50-200		9/20/23 12:24
M3HFPO-DA	60.2		50-200		9/20/23 12:24
M6PFDA	**40.8**	*	50-200	S-29	9/20/23 12:24
M3PFBS	91.3		50-200		9/20/23 12:24
M7PFUnA	**43.7**	*	50-200	S-29	9/20/23 12:24
M2-6:2FTS	125		50-200		9/20/23 12:24
M5PFPeA	59.6		50-200		9/20/23 12:24
M5PFHxA	51.4		50-200		9/20/23 12:24
M3PFHxS	93.6		50-200		9/20/23 12:24
M4PFHpA	**45.7**	*	50-200	PF-18	9/20/23 12:24
M8PFOA	**41.1**	*	50-200	S-29	9/20/23 12:24
M8PFOS	93.3		50-200		9/20/23 12:24
M9PFNA	**43.4**	*	50-200	PF-18	9/20/23 12:24
MPFDoA	**46.0**	*	50-200	S-29	9/20/23 12:24

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: B-25 Sampled: 8/28/2023 11:20

Sample ID: 23H4428-04

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.5	1.8	0.64		ng/L	1	J	EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.41		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.52		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.53		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.63		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.80		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.58		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.45		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.31		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.48		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.65		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.34		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.4		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.51		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.47		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.72		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.81		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.41		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW
Perfluorononanoic acid (PFNA)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:31	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	54.8	50-200		9/20/23 12:31
M2-8:2FTS	91.9	50-200		9/20/23 12:31
MPFBA	78.2	50-200		9/20/23 12:31
M3HFPO-DA	78.6	50-200		9/20/23 12:31
M6PFDA	57.6	50-200		9/20/23 12:31
M3PFBS	92.4	50-200		9/20/23 12:31
M7PFUnA	56.6	50-200		9/20/23 12:31
M2-6:2FTS	120	50-200		9/20/23 12:31
M5PFPeA	76.5	50-200		9/20/23 12:31
M5PFHxA	71.6	50-200		9/20/23 12:31
M3PFHxS	94.0	50-200		9/20/23 12:31
M4PFHpA	67.7	50-200		9/20/23 12:31
M8PFOA	64.2	50-200		9/20/23 12:31
M8PFOS	94.2	50-200		9/20/23 12:31
M9PFNA	60.4	50-200		9/20/23 12:31
MPFDoA	59.6	50-200		9/20/23 12:31

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: Mid Point Sampled: 8/28/2023 11:25

Sample ID: 23H4428-05

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	9.1	1.8	0.64		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.42		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.53		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.54		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.63		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.71		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.80		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.58		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8	0.50		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.46		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.31		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.48		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.34		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.4		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.51		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.47		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.73		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.81		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.42		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW
Perfluorononanoic acid (PFNA)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:39	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	58.2		50-200		9/20/23 12:39
M2-8:2FTS	92.5		50-200		9/20/23 12:39
MPFBA	66.7		50-200		9/20/23 12:39
M3HFPO-DA	71.8		50-200		9/20/23 12:39
M6PFDA	**37.2**	*	50-200	PF-18	9/20/23 12:39
M3PFBS	95.2		50-200		9/20/23 12:39
M7PFUnA	**40.7**	*	50-200	S-29	9/20/23 12:39
M2-6:2FTS	109		50-200		9/20/23 12:39
M5PFPeA	66.5		50-200		9/20/23 12:39
M5PFHxA	62.4		50-200		9/20/23 12:39
M3PFHxS	97.1		50-200		9/20/23 12:39
M4PFHpA	58.8		50-200		9/20/23 12:39
M8PFOA	54.4		50-200		9/20/23 12:39
M8PFOS	96.4		50-200		9/20/23 12:39
M9PFNA	**43.2**	*	50-200	PF-18	9/20/23 12:39
MPFDoA	50.2		50-200		9/20/23 12:39

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: A-75 Sampled: 8/28/2023 11:30

Sample ID: 23H4428-06

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	9.3	1.8	0.62		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.40		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoropentanoic acid (PFPeA)	3.8	1.8	0.51		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.52		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.61		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.68		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.77		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.56		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8	0.48		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.44		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.30		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.46		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.63		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.33		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.64		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.3		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.50		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.45		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.78		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.40		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW
Perfluorononanoic acid (PFNA)	ND	1.8	0.47		ng/L	1		EPA 533	9/15/23	9/20/23 12:47	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	54.3		50-200		9/20/23 12:47
M2-8:2FTS	82.3		50-200		9/20/23 12:47
MPFBA	67.6		50-200		9/20/23 12:47
M3HFPO-DA	65.2		50-200		9/20/23 12:47
M6PFDA	**43.7**	*	50-200	S-29	9/20/23 12:47
M3PFBS	88.2		50-200		9/20/23 12:47
M7PFUnA	**48.3**	*	50-200	S-29	9/20/23 12:47
M2-6:2FTS	115		50-200		9/20/23 12:47
M5PFPeA	67.1		50-200		9/20/23 12:47
M5PFHxA	60.8		50-200		9/20/23 12:47
M3PFHxS	88.0		50-200		9/20/23 12:47
M4PFHpA	53.2		50-200		9/20/23 12:47
M8PFOA	50.2		50-200		9/20/23 12:47
M8PFOS	90.8		50-200		9/20/23 12:47
M9PFNA	**47.0**	*	50-200	PF-18	9/20/23 12:47
MPFDoA	57.0		50-200		9/20/23 12:47

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: A-50 Sampled: 8/28/2023 11:35

Sample ID: 23H4428-07

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.1	1.8	0.62		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorobutanesulfonic acid (PFBS)	2.0	1.8	0.40		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoropentanoic acid (PFPeA)	7.1	1.8	0.51		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorohexanoic acid (PFHxA)	3.3	1.8	0.52		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.61		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.68		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.68		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.78		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.56		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorodecanoic acid (PFDA)	ND	1.8	0.48		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.44		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.67		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.31		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.47		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.64		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.33		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.65		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.3		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.50		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.46		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.71		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.79		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorooctanoic acid (PFOA)	ND	1.8	0.67		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.40		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS
Perfluorononanoic acid (PFNA)	ND	1.8	0.48		ng/L	1		EPA 533	9/12/23	9/13/23 19:23	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	54.2	50-200		9/13/23 19:23
M2-8:2FTS	102	50-200		9/13/23 19:23
MPFBA	67.1	50-200		9/13/23 19:23
M3HFPO-DA	55.0	50-200		9/13/23 19:23
M6PFDA	63.7	50-200		9/13/23 19:23
M3PFBS	80.1	50-200		9/13/23 19:23
M7PFUnA	64.6	50-200		9/13/23 19:23
M2-6:2FTS	175	50-200		9/13/23 19:23
M5PFPeA	68.7	50-200		9/13/23 19:23
M5PFHxA	54.3	50-200		9/13/23 19:23
M3PFHxS	79.0	50-200		9/13/23 19:23
M4PFHpA	55.1	50-200		9/13/23 19:23
M8PFOA	63.2	50-200		9/13/23 19:23
M8PFOS	77.9	50-200		9/13/23 19:23
M9PFNA	50.5	50-200		9/13/23 19:23
MPFDoA	54.6	50-200		9/13/23 19:23

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: A-25 Sampled: 8/28/2023 11:40

Sample ID: 23H4428-08

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	6.2	1.7	0.61		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorobutanesulfonic acid (PFBS)	7.0	1.7	0.40		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoropentanoic acid (PFPeA)	5.9	1.7	0.50		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorohexanoic acid (PFHxA)	5.0	1.7	0.51		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.7	0.60		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.7	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7	0.77		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.7	0.55		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorodecanoic acid (PFDA)	ND	1.7	0.47		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.43		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.30		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.7	0.46		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorohexanesulfonic acid (PFHxS)	0.81	1.7	0.63		ng/L	1	J	EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7	0.32		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7	0.64		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.7	1.3		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.45		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7	0.69		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluoroheptanoic acid (PFHpA)	2.5	1.7	0.78		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorooctanoic acid (PFOA)	5.8	1.7	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorooctanesulfonic acid (PFOS)	1.3	1.7	0.40		ng/L	1	J	EPA 533	9/15/23	9/20/23 12:55	QNW
Perfluorononanoic acid (PFNA)	ND	1.7	0.47		ng/L	1		EPA 533	9/15/23	9/20/23 12:55	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	56.0	50-200		9/20/23 12:55
M2-8:2FTS	84.5	50-200		9/20/23 12:55
MPFBA	81.2	50-200		9/20/23 12:55
M3HFPO-DA	86.8	50-200		9/20/23 12:55
M6PFDA	51.0	50-200		9/20/23 12:55
M3PFBS	83.4	50-200		9/20/23 12:55
M7PFUnA	52.7	50-200		9/20/23 12:55
M2-6:2FTS	124	50-200		9/20/23 12:55
M5PFPeA	83.5	50-200		9/20/23 12:55
M5PFHxA	72.3	50-200		9/20/23 12:55
M3PFHxS	87.8	50-200		9/20/23 12:55
M4PFHpA	68.8	50-200		9/20/23 12:55
M8PFOA	64.0	50-200		9/20/23 12:55
M8PFOS	86.7	50-200		9/20/23 12:55
M9PFNA	57.2	50-200		9/20/23 12:55
MPFDoA	58.3	50-200		9/20/23 12:55

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: Raw Water Sampled: 8/28/2023 11:45

Sample ID: 23H4428-09

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.3	1.8	0.63		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorobutanesulfonic acid (PFBS)	8.7	1.8	0.41		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoropentanoic acid (PFPeA)	4.7	1.8	0.51		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorohexanoic acid (PFHxA)	4.7	1.8	0.53		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.62		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.69		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.68		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.79		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.57		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorodecanoic acid (PFDA)	ND	1.8	0.48		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.45		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.67		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.31		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.47		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.3	1.8	0.64		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.33		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.65		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.3		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.50		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.46		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.71		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluoroheptanoic acid (PFHpA)	3.5	1.8	0.80		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorooctanoic acid (PFOA)	11	1.8	0.68		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorooctanesulfonic acid (PFOS)	11	1.8	0.41		ng/L	1		EPA 533	9/12/23	9/13/23 19:52	AMS
Perfluorononanoic acid (PFNA)	0.70	1.8	0.48		ng/L	1	V-06, J	EPA 533	9/12/23	9/13/23 19:52	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	78.4	50-200		9/13/23 19:52
M2-8:2FTS	102	50-200		9/13/23 19:52
MPFBA	70.2	50-200		9/13/23 19:52
M3HFPO-DA	65.6	50-200		9/13/23 19:52
M6PFDA	62.3	50-200		9/13/23 19:52
M3PFBS	81.7	50-200		9/13/23 19:52
M7PFUnA	56.7	50-200		9/13/23 19:52
M2-6:2FTS	185	50-200		9/13/23 19:52
M5PFPeA	83.0	50-200		9/13/23 19:52
M5PFHxA	59.9	50-200		9/13/23 19:52
M3PFHxS	75.1	50-200		9/13/23 19:52
M4PFHpA	63.1	50-200		9/13/23 19:52
M8PFOA	67.1	50-200		9/13/23 19:52
M8PFOS	77.8	50-200		9/13/23 19:52
M9PFNA	54.2	50-200		9/13/23 19:52
MPFDoA	51.6	50-200		9/13/23 19:52

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Project Location: 351 Mount Airy RD, New Windos Sample Description: Work Order: 23H4428

Date Received: 8/30/2023

Field Sample #: Duplicate Sampled: 8/28/2023 00:00

Sample ID: 23H4428-10

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8	0.62		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.40		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.51		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.52		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.60		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.68		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.67		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.77		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8	0.56		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8	0.48		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.44		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.30		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8	0.46		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.63		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.32		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.64		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8	1.3		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.49		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.45		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.70		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.78		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8	0.66		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.40		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW
Perfluorononanoic acid (PFNA)	ND	1.8	0.47		ng/L	1		EPA 533	9/15/23	9/20/23 13:02	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	51.9	50-200		9/20/23 13:02
M2-8:2FTS	91.2	50-200		9/20/23 13:02
MPFBA	62.9	50-200		9/20/23 13:02
M3HFPO-DA	64.7	50-200		9/20/23 13:02
M6PFDA	55.6	50-200		9/20/23 13:02
M3PFBS	90.0	50-200		9/20/23 13:02
M7PFUnA	63.3	50-200		9/20/23 13:02
M2-6:2FTS	166	50-200		9/20/23 13:02
M5PFPeA	63.3	50-200		9/20/23 13:02
M5PFHxA	57.8	50-200		9/20/23 13:02
M3PFHxS	88.3	50-200		9/20/23 13:02
M4PFHpA	55.2	50-200		9/20/23 13:02
M8PFOA	54.9	50-200		9/20/23 13:02
M8PFOS	94.5	50-200		9/20/23 13:02
M9PFNA	53.4	50-200		9/20/23 13:02
MPFDoA	73.7	50-200		9/20/23 13:02

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Sample Extraction Data

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H4428-01 [Effluent]	B350895	284	1.00	09/12/23
23H4428-07 [A-50]	B350895	281	1.00	09/12/23
23H4428-09 [Raw Water]	B350895	279	1.00	09/12/23

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H4428-02RE1 [B-75]	B352010	276	1.00	09/15/23
23H4428-03RE1 [B-50]	B352010	273	1.00	09/15/23
23H4428-04RE1 [B-25]	B352010	275	1.00	09/15/23
23H4428-05RE1 [Mid Point]	B352010	273	1.00	09/15/23
23H4428-06RE1 [A-75]	B352010	283	1.00	09/15/23
23H4428-08RE1 [A-25]	B352010	286	1.00	09/15/23
23H4428-10RE1 [Duplicate]	B352010	285	1.00	09/15/23

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B350895 - EPA 533												
Blank (B350895-BLK1)					Prepared: 09/12/23 Analyzed: 09/13/23							
Perfluorobutanoic acid (PFBA)	ND	1.8	0.63	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.41	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.52	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.53	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.62	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.69	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.69	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	0.79	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	0.57	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.8	0.49	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.45	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.68	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.31	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	0.47	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.65	ng/L								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	0.33	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	0.66	ng/L								
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	1.3	ng/L								
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.50	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.46	ng/L								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.71	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.80	ng/L								
Perfluorooctanoic acid (PFOA)	ND	1.8	0.68	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.41	ng/L								
Perfluorononanoic acid (PFNA)	ND	1.8	0.48	ng/L								
Surrogate: M2-4:2FTS	*27.4*			ng/L	33.7		81.3		50-200			
Surrogate: M2-8:2FTS	*34.0*			ng/L	34.5		98.5		50-200			
Surrogate: MPFBA	*26.3*			ng/L	35.9		73.2		50-200			
Surrogate: M3HFPO-DA	*21.5*			ng/L	35.9		59.7		50-200			
Surrogate: M6PFDA	*21.8*			ng/L	35.9		60.7		50-200			
Surrogate: M3PFBS	*25.4*			ng/L	33.5		75.7		50-200			
Surrogate: M7PFUnA	*22.0*			ng/L	35.9		61.3		50-200			
Surrogate: M2-6:2FTS	*103*			ng/L	34.2		**300**	*	50-200			PF-17
Surrogate: M5PFPeA	*25.9*			ng/L	35.9		72.1		50-200			
Surrogate: M5PFHxA	*21.3*			ng/L	35.9		59.2		50-200			
Surrogate: M3PFHxS	*24.2*			ng/L	34.1		70.9		50-200			
Surrogate: M4PFHpA	*22.4*			ng/L	35.9		62.4		50-200			
Surrogate: M8PFOA	*25.4*			ng/L	35.9		70.6		50-200			
Surrogate: M8PFOS	*23.7*			ng/L	34.5		68.6		50-200			
Surrogate: M9PFNA	*19.3*			ng/L	35.9		53.7		50-200			
Surrogate: MPFDoA	*21.7*			ng/L	35.9		60.2		50-200			
LCS (B350895-BS1)					Prepared: 09/12/23 Analyzed: 09/13/23							
Perfluorobutanoic acid (PFBA)	1.92	1.8	0.63	ng/L	1.79		107		50-150			
Perfluorobutanesulfonic acid (PFBS)	1.38	1.8	0.41	ng/L	1.58		87.4		50-150			J
Perfluoropentanoic acid (PFPeA)	1.70	1.8	0.51	ng/L	1.79		94.9		50-150			J
Perfluorohexanoic acid (PFHxA)	1.66	1.8	0.53	ng/L	1.79		92.5		50-150			J
11Cl-PF3OUdS (F53B Major)	1.91	1.8	0.62	ng/L	1.69		113		50-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B350895 - EPA 533												
LCS (B350895-BS1)					Prepared: 09/12/23 Analyzed: 09/13/23							
9Cl-PF3ONS (F53B Minor)	1.38	1.8	0.69	ng/L	1.67		82.9		50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.42	1.8	0.68	ng/L	1.69		84.0		50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.25	1.8	0.79	ng/L	1.79		69.7		50-150			J
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.71	1.8	0.57	ng/L	1.72		99.6		50-150			J
Perfluorodecanoic acid (PFDA)	1.43	1.8	0.48	ng/L	1.79		79.7		50-150			J
Perfluorododecanoic acid (PFDoA)	1.71	1.8	0.45	ng/L	1.79		95.5		50-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.55	1.8	0.67	ng/L	1.59		97.2		50-150			J
Perfluoroheptanesulfonic acid (PFHpS)	1.42	1.8	0.31	ng/L	1.71		82.9		50-150			J
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.64	1.8	0.47	ng/L	1.67		97.8		50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.37	1.8	0.64	ng/L	1.64		83.4		50-150			J
Perfluoro-4-oxapentanoic acid (PFMPA)	1.62	1.8	0.33	ng/L	1.79		90.7		50-150			J
Perfluoro-5-oxahexanoic acid (PFMBA)	1.46	1.8	0.65	ng/L	1.79		81.4		50-150			J
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.69	1.8	1.3	ng/L	1.70		99.3		50-150			J
Perfluoropentanesulfonic acid (PFPeS)	1.36	1.8	0.50	ng/L	1.68		80.9		50-150			J
Perfluoroundecanoic acid (PFUnA)	1.66	1.8	0.46	ng/L	1.79		92.6		50-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.80	1.8	0.71	ng/L	1.79		100		50-150			
Perfluoroheptanoic acid (PFHpA)	1.74	1.8	0.80	ng/L	1.79		97.3		50-150			J
Perfluorooctanoic acid (PFOA)	1.53	1.8	0.68	ng/L	1.79		85.5		50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.32	1.8	0.41	ng/L	1.66		79.6		50-150			J
Perfluorononanoic acid (PFNA)	1.40	1.8	0.48	ng/L	1.79		78.1		50-150			J
Surrogate: M2-4:2FTS	*29.0*			ng/L	33.6		86.2		50-200			
Surrogate: M2-8:2FTS	*36.9*			ng/L	34.4		107		50-200			
Surrogate: MPFBA	*27.5*			ng/L	35.8		76.8		50-200			
Surrogate: M3HFPO-DA	*24.5*			ng/L	35.8		68.5		50-200			
Surrogate: M6PFDA	*26.6*			ng/L	35.8		74.3		50-200			
Surrogate: M3PFBS	*27.0*			ng/L	33.4		80.8		50-200			
Surrogate: M7PFUnA	*24.9*			ng/L	35.8		69.4		50-200			
Surrogate: M2-6:2FTS	*116*			ng/L	34.1		**342**	*	50-200			S-29
Surrogate: M5PFPeA	*26.8*			ng/L	35.8		74.9		50-200			
Surrogate: M5PFHxA	*22.8*			ng/L	35.8		63.7		50-200			
Surrogate: M3PFHxS	*26.6*			ng/L	34.0		78.5		50-200			
Surrogate: M4PFHpA	*23.3*			ng/L	35.8		65.1		50-200			
Surrogate: M8PFOA	*27.3*			ng/L	35.8		76.1		50-200			
Surrogate: M8PFOS	*26.8*			ng/L	34.3		78.1		50-200			
Surrogate: M9PFNA	*22.5*			ng/L	35.8		62.7		50-200			
Surrogate: MPFDoA	*25.2*			ng/L	35.8		70.5		50-200			
Matrix Spike (B350895-MS1)		**Source: 23H4428-01**			Prepared: 09/12/23 Analyzed: 09/13/23							
Perfluorobutanoic acid (PFBA)	2.02	1.8	0.63	ng/L	1.79	ND	113		50-150			
Perfluorobutanesulfonic acid (PFBS)	1.53	1.8	0.41	ng/L	1.58	ND	96.9		50-150			J
Perfluoropentanoic acid (PFPeA)	1.93	1.8	0.51	ng/L	1.79	ND	108		50-150			
Perfluorohexanoic acid (PFHxA)	1.68	1.8	0.52	ng/L	1.79	ND	94.0		50-150			J
11Cl-PF3OUdS (F53B Major)	1.81	1.8	0.61	ng/L	1.68	ND	107		50-150			
9Cl-PF3ONS (F53B Minor)	1.28	1.8	0.69	ng/L	1.66	ND	76.9		50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.40	1.8	0.68	ng/L	1.68	ND	82.9		50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.14	1.8	0.78	ng/L	1.79	ND	64.0		50-150			J
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.49	1.8	0.57	ng/L	1.71	ND	87.1		50-150			J

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B350895 - EPA 533											
Matrix Spike (B350895-MS1)	**Source: 23H4428-01**				Prepared: 09/12/23 Analyzed: 09/13/23						
Perfluorodecanoic acid (PFDA)	1.54	1.8	0.48	ng/L	1.79	ND	86.3	50-150			J
Perfluorododecanoic acid (PFDoA)	1.63	1.8	0.44	ng/L	1.79	ND	91.2	50-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.55	1.8	0.67	ng/L	1.59	ND	97.7	50-150			J
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.8	0.31	ng/L	1.71	ND	87.3	50-150			J
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.46	1.8	0.47	ng/L	1.67	ND	87.5	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.45	1.8	0.64	ng/L	1.63	ND	89.0	50-150			J
Perfluoro-4-oxapentanoic acid (PFMPA)	1.61	1.8	0.33	ng/L	1.79	ND	90.1	50-150			J
Perfluoro-5-oxahexanoic acid (PFMBA)	1.46	1.8	0.65	ng/L	1.79	ND	81.6	50-150			J
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.79	1.8	1.3	ng/L	1.70	ND	105	50-150			J
Perfluoropentanesulfonic acid (PFPeS)	1.46	1.8	0.50	ng/L	1.68	ND	87.0	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.61	1.8	0.46	ng/L	1.79	ND	90.1	50-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.58	1.8	0.71	ng/L	1.79	ND	88.6	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.79	1.8	0.79	ng/L	1.79	ND	100	50-150			J
Perfluorooctanoic acid (PFOA)	2.27	1.8	0.68	ng/L	1.79	ND	127	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.23	1.8	0.41	ng/L	1.65	ND	74.1	50-150			J
Perfluorononanoic acid (PFNA)	1.27	1.8	0.48	ng/L	1.79	ND	71.2	50-150			J
Surrogate: M2-4:2FTS	*23.3*			ng/L	33.5		69.5	50-200			
Surrogate: M2-8:2FTS	*31.1*			ng/L	34.3		90.8	50-200			
Surrogate: MPFBA	*20.0*			ng/L	35.7		56.0	50-200			
Surrogate: M3HFPO-DA	*21.1*			ng/L	35.7		59.0	50-200			
Surrogate: M6PFDA	*21.8*			ng/L	35.7		61.1	50-200			
Surrogate: M3PFBS	*24.1*			ng/L	33.3		72.3	50-200			
Surrogate: M7PFUnA	*23.6*			ng/L	35.7		66.1	50-200			
Surrogate: M2-6:2FTS	*51.9*			ng/L	34.0		153	50-200			
Surrogate: M5PFPeA	*20.7*			ng/L	35.7		58.1	50-200			
Surrogate: M5PFHxA	*19.2*			ng/L	35.7		53.6	50-200			
Surrogate: M3PFHxS	*23.6*			ng/L	33.9		69.5	50-200			
Surrogate: M4PFHpA	*19.3*			ng/L	35.7		54.1	50-200			
Surrogate: M8PFOA	*21.8*			ng/L	35.7		61.0	50-200			
Surrogate: M8PFOS	*23.5*			ng/L	34.3		68.5	50-200			
Surrogate: M9PFNA	*21.5*			ng/L	35.7		60.2	50-200			
Surrogate: MPFDoA	*23.0*			ng/L	35.7		64.4	50-200			
Matrix Spike Dup (B350895-MSD1)	**Source: 23H4428-01**				Prepared: 09/12/23 Analyzed: 09/13/23						
Perfluorobutanoic acid (PFBA)	2.35	1.9	0.65	ng/L	1.87	ND	126	50-150	15.1	50	
Perfluorobutanesulfonic acid (PFBS)	1.67	1.9	0.42	ng/L	1.65	ND	101	50-150	8.55	50	J
Perfluoropentanoic acid (PFPeA)	1.98	1.9	0.54	ng/L	1.87	ND	106	50-150	2.85	50	
Perfluorohexanoic acid (PFHxA)	1.94	1.9	0.55	ng/L	1.87	ND	104	50-150	14.5	50	
11Cl-PF3OUdS (F53B Major)	1.88	1.9	0.64	ng/L	1.76	ND	107	50-150	4.17	50	J
9Cl-PF3ONS (F53B Minor)	1.73	1.9	0.72	ng/L	1.74	ND	99.6	50-150	30.0	50	J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.65	1.9	0.71	ng/L	1.76	ND	93.6	50-150	16.4	50	J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.24	1.9	0.82	ng/L	1.87	ND	66.4	50-150	7.98	50	J
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.96	1.9	0.59	ng/L	1.79	ND	110	50-150	27.1	50	
Perfluorodecanoic acid (PFDA)	1.84	1.9	0.50	ng/L	1.87	ND	98.7	50-150	17.7	50	J
Perfluorododecanoic acid (PFDoA)	2.01	1.9	0.46	ng/L	1.87	ND	108	50-150	21.1	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.84	1.9	0.70	ng/L	1.66	ND	111	50-150	16.8	50	J
Perfluoroheptanesulfonic acid (PFHpS)	1.87	1.9	0.32	ng/L	1.78	ND	105	50-150	22.7	50	J
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.67	1.9	0.49	ng/L	1.74	ND	95.5	50-150	13.0	50	J

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B350895 - EPA 533												
Matrix Spike Dup (B350895-MSD1)	**Source: 23H4428-01**				Prepared: 09/12/23 Analyzed: 09/13/23							
Perfluorohexanesulfonic acid (PFHxS)	1.77	1.9	0.67	ng/L	1.71	ND	104		50-150	19.6	50	J
Perfluoro-4-oxapentanoic acid (PFMPA)	1.80	1.9	0.34	ng/L	1.87	ND	96.6		50-150	11.4	50	J
Perfluoro-5-oxahexanoic acid (PFMBA)	1.68	1.9	0.68	ng/L	1.87	ND	90.3		50-150	14.4	50	J
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.82	1.9	1.4	ng/L	1.77	ND	103		50-150	1.87	50	J
Perfluoropentanesulfonic acid (PFPeS)	1.87	1.9	0.52	ng/L	1.75	ND	106		50-150	24.3	50	J
Perfluoroundecanoic acid (PFUnA)	1.58	1.9	0.48	ng/L	1.87	ND	84.5		50-150	2.08	50	J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.79	1.9	0.74	ng/L	1.87	ND	95.9		50-150	12.2	50	J
Perfluoroheptanoic acid (PFHpA)	2.13	1.9	0.83	ng/L	1.87	ND	114		50-150	17.4	50	
Perfluorooctanoic acid (PFOA)	2.41	1.9	0.71	ng/L	1.87	ND	129		50-150	6.11	50	
Perfluorooctanesulfonic acid (PFOS)	1.64	1.9	0.42	ng/L	1.73	ND	95.0		50-150	28.9	50	J
Perfluorononanoic acid (PFNA)	1.90	1.9	0.50	ng/L	1.87	ND	102		50-150	39.4	50	
Surrogate: M2-4:2FTS	*19.3*			ng/L	35.0		55.1		50-200			
Surrogate: M2-8:2FTS	*29.7*			ng/L	35.8		83.0		50-200			
Surrogate: MPFBA	*13.5*			ng/L	37.3		**36.3**	*	50-200			S-29
Surrogate: M3HFPO-DA	*15.4*			ng/L	37.3		**41.2**	*	50-200			PF-18
Surrogate: M6PFDA	*21.4*			ng/L	37.3		57.4		50-200			
Surrogate: M3PFBS	*24.5*			ng/L	34.8		70.4		50-200			
Surrogate: M7PFUnA	*24.1*			ng/L	37.3		64.6		50-200			
Surrogate: M2-6:2FTS	*66.1*			ng/L	35.5		186		50-200			
Surrogate: M5PFPeA	*15.1*			ng/L	37.3		**40.4**	*	50-200			S-29
Surrogate: M5PFHxA	*14.5*			ng/L	37.3		**39.0**	*	50-200			PF-18
Surrogate: M3PFHxS	*23.2*			ng/L	35.4		65.7		50-200			
Surrogate: M4PFHpA	*16.5*			ng/L	37.3		**44.1**	*	50-200			PF-18
Surrogate: M8PFOA	*19.3*			ng/L	37.3		51.8		50-200			
Surrogate: M8PFOS	*23.8*			ng/L	35.8		66.5		50-200			
Surrogate: M9PFNA	*18.1*			ng/L	37.3		**48.4**	*	50-200			PF-18
Surrogate: MPFDoA	*23.8*			ng/L	37.3		63.8		50-200			
Batch B352010 - EPA 533												
Blank (B352010-BLK1)					Prepared: 09/15/23 Analyzed: 09/20/23							
Perfluorobutanoic acid (PFBA)	ND	1.9	0.68	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.44	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.56	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.9	0.57	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.67	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.75	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.74	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	0.85	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	0.61	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.9	0.52	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.48	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.73	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	0.33	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	0.51	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.70	ng/L								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	0.36	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	0.71	ng/L								
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	1.5	ng/L								

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352010 - EPA 533											
Blank (B352010-BLK1)					Prepared: 09/15/23 Analyzed: 09/20/23						
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	0.54	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.50	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.77	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.86	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9	0.73	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.44	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9	0.52	ng/L							
Surrogate: M2-4:2FTS	*34.0*			ng/L	36.4		93.4	50-200			
Surrogate: M2-8:2FTS	*39.5*			ng/L	37.2		106	50-200			
Surrogate: MPFBA	*31.7*			ng/L	38.8		81.8	50-200			
Surrogate: M3HFPO-DA	*31.5*			ng/L	38.8		81.2	50-200			
Surrogate: M6PFDA	*31.3*			ng/L	38.8		80.6	50-200			
Surrogate: M3PFBS	*32.2*			ng/L	36.1		89.2	50-200			
Surrogate: M7PFUnA	*33.0*			ng/L	38.8		85.1	50-200			
Surrogate: M2-6:2FTS	*61.0*			ng/L	36.9		165	50-200			
Surrogate: M5PFPeA	*31.3*			ng/L	38.8		80.8	50-200			
Surrogate: M5PFHxA	*30.8*			ng/L	38.8		79.5	50-200			
Surrogate: M3PFHxS	*32.6*			ng/L	36.8		88.7	50-200			
Surrogate: M4PFHpA	*32.1*			ng/L	38.8		82.6	50-200			
Surrogate: M8PFOA	*32.8*			ng/L	38.8		84.5	50-200			
Surrogate: M8PFOS	*34.4*			ng/L	37.2		92.5	50-200			
Surrogate: M9PFNA	*33.0*			ng/L	38.8		85.1	50-200			
Surrogate: MPFDoA	*32.7*			ng/L	38.8		84.4	50-200			
LCS (B352010-BS1)					Prepared: 09/15/23 Analyzed: 09/20/23						
Perfluorobutanoic acid (PFBA)	2.52	1.9	0.66	ng/L	1.87		134	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.65	1.9	0.43	ng/L	1.66		99.7	50-150			J
Perfluoropentanoic acid (PFPeA)	2.01	1.9	0.54	ng/L	1.87		107	50-150			
Perfluorohexanoic acid (PFHxA)	2.05	1.9	0.55	ng/L	1.87		109	50-150			
11Cl-PF3OUdS (F53B Major)	1.77	1.9	0.64	ng/L	1.77		100	50-150			J
9Cl-PF3ONS (F53B Minor)	1.53	1.9	0.72	ng/L	1.75		87.7	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.62	1.9	0.72	ng/L	1.77		91.8	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.72	1.9	0.82	ng/L	1.87		91.5	50-150			J
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.97	1.9	0.59	ng/L	1.80		109	50-150			
Perfluorodecanoic acid (PFDA)	2.06	1.9	0.51	ng/L	1.87		110	50-150			
Perfluorododecanoic acid (PFDoA)	1.87	1.9	0.47	ng/L	1.87		100	50-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.85	1.9	0.71	ng/L	1.67		111	50-150			J
Perfluoroheptanesulfonic acid (PFHpS)	1.85	1.9	0.32	ng/L	1.79		104	50-150			J
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.77	1.9	0.49	ng/L	1.75		101	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.80	1.9	0.67	ng/L	1.72		105	50-150			J
Perfluoro-4-oxapentanoic acid (PFMPA)	2.07	1.9	0.35	ng/L	1.87		110	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.92	1.9	0.68	ng/L	1.87		102	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.85	1.9	1.4	ng/L	1.78		104	50-150			J
Perfluoropentanesulfonic acid (PFPeS)	1.84	1.9	0.53	ng/L	1.76		105	50-150			J
Perfluoroundecanoic acid (PFUnA)	2.09	1.9	0.48	ng/L	1.87		112	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.19	1.9	0.74	ng/L	1.87		117	50-150			
Perfluoroheptanoic acid (PFHpA)	2.09	1.9	0.83	ng/L	1.87		111	50-150			
Perfluorooctanoic acid (PFOA)	2.35	1.9	0.71	ng/L	1.87		126	50-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B352010 - EPA 533												
LCS (B352010-BS1)					Prepared: 09/15/23 Analyzed: 09/20/23							
Perfluorooctanesulfonic acid (PFOS)	1.78	1.9	0.43	ng/L	1.73		103		50-150			J
Perfluorononanoic acid (PFNA)	2.10	1.9	0.50	ng/L	1.87		112		50-150			
Surrogate: M2-4:2FTS	*30.8*			ng/L	35.2		87.6		50-200			
Surrogate: M2-8:2FTS	*37.6*			ng/L	36.0		105		50-200			
Surrogate: MPFBA	*31.1*			ng/L	37.5		83.0		50-200			
Surrogate: M3HFPO-DA	*34.7*			ng/L	37.5		92.6		50-200			
Surrogate: M6PFDA	*32.6*			ng/L	37.5		86.9		50-200			
Surrogate: M3PFBS	*29.9*			ng/L	34.9		85.5		50-200			
Surrogate: M7PFUnA	*30.6*			ng/L	37.5		81.7		50-200			
Surrogate: M2-6:2FTS	*60.9*			ng/L	35.7		171		50-200			
Surrogate: M5PFPeA	*30.7*			ng/L	37.5		81.9		50-200			
Surrogate: M5PFHxA	*30.3*			ng/L	37.5		80.8		50-200			
Surrogate: M3PFHxS	*30.7*			ng/L	35.5		86.3		50-200			
Surrogate: M4PFHpA	*30.7*			ng/L	37.5		82.0		50-200			
Surrogate: M8PFOA	*31.8*			ng/L	37.5		84.8		50-200			
Surrogate: M8PFOS	*30.9*			ng/L	35.9		85.8		50-200			
Surrogate: M9PFNA	*31.7*			ng/L	37.5		84.5		50-200			
Surrogate: MPFDoA	*30.1*			ng/L	37.5		80.4		50-200			
Matrix Spike (B352010-MS1)		**Source: 23H4428-01RE1**			Prepared: 09/15/23 Analyzed: 09/20/23							
Perfluorobutanoic acid (PFBA)	2.68	1.8	0.64	ng/L	1.81	ND	**148**	*	70-130			MS-12
Perfluorobutanesulfonic acid (PFBS)	1.71	1.8	0.41	ng/L	1.60	ND	107		70-130			J
Perfluoropentanoic acid (PFPeA)	2.07	1.8	0.52	ng/L	1.81	ND	114		70-130			
Perfluorohexanoic acid (PFHxA)	2.00	1.8	0.53	ng/L	1.81	ND	110		70-130			
11Cl-PF3OUdS (F53B Major)	1.58	1.8	0.62	ng/L	1.71	ND	92.4		70-130			J
9Cl-PF3ONS (F53B Minor)	1.53	1.8	0.70	ng/L	1.69	ND	90.6		70-130			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.57	1.8	0.69	ng/L	1.71	ND	92.1		70-130			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.08	1.8	0.80	ng/L	1.81	ND	115		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.65	1.8	0.57	ng/L	1.74	ND	95.0		70-130			J
Perfluorodecanoic acid (PFDA)	2.17	1.8	0.49	ng/L	1.81	ND	120		70-130			
Perfluorododecanoic acid (PFDoA)	1.74	1.8	0.45	ng/L	1.81	ND	95.7		70-130			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.85	1.8	0.68	ng/L	1.61	ND	115		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	1.95	1.8	0.31	ng/L	1.73	ND	112		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.85	1.8	0.48	ng/L	1.70	ND	109		70-130			
Perfluorohexanesulfonic acid (PFHxS)	1.71	1.8	0.65	ng/L	1.66	ND	103		70-130			J
Perfluoro-4-oxapentanoic acid (PFMPA)	1.95	1.8	0.33	ng/L	1.81	ND	107		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.79	1.8	0.66	ng/L	1.81	ND	98.7		70-130			J
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.31	1.8	1.4	ng/L	1.72	ND	**134**	*	70-130			MS-12
Perfluoropentanesulfonic acid (PFPeS)	1.71	1.8	0.51	ng/L	1.70	ND	100		70-130			J
Perfluoroundecanoic acid (PFUnA)	2.11	1.8	0.47	ng/L	1.81	ND	116		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.73	1.8	0.72	ng/L	1.81	ND	95.5		70-130			J
Perfluoroheptanoic acid (PFHpA)	2.04	1.8	0.81	ng/L	1.81	ND	112		70-130			
Perfluorooctanoic acid (PFOA)	2.36	1.8	0.69	ng/L	1.81	ND	130		70-130			
Perfluorooctanesulfonic acid (PFOS)	1.89	1.8	0.41	ng/L	1.68	ND	112		70-130			
Perfluorononanoic acid (PFNA)	2.18	1.8	0.49	ng/L	1.81	ND	120		70-130			
Surrogate: M2-4:2FTS	*21.2*			ng/L	34.0		62.3		50-200			
Surrogate: M2-8:2FTS	*33.9*			ng/L	34.8		97.4		50-200			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B352010 - EPA 533												
Matrix Spike (B352010-MS1)	**Source: 23H4428-01RE1**				Prepared: 09/15/23 Analyzed: 09/20/23							
Surrogate: MPFBA	*22.8*			ng/L	36.3		62.8		50-200			
Surrogate: M3HFPO-DA	*27.1*			ng/L	36.3		74.6		50-200			
Surrogate: M6PFDA	*29.2*			ng/L	36.3		80.5		50-200			
Surrogate: M3PFBS	*30.0*			ng/L	33.8		88.7		50-200			
Surrogate: M7PFUnA	*30.5*			ng/L	36.3		84.0		50-200			
Surrogate: M2-6:2FTS	*46.3*			ng/L	34.5		134		50-200			
Surrogate: M5PFPeA	*24.4*			ng/L	36.3		67.3		50-200			
Surrogate: M5PFHxA	*24.8*			ng/L	36.3		68.5		50-200			
Surrogate: M3PFHxS	*31.3*			ng/L	34.4		91.2		50-200			
Surrogate: M4PFHpA	*26.6*			ng/L	36.3		73.3		50-200			
Surrogate: M8PFOA	*30.1*			ng/L	36.3		83.0		50-200			
Surrogate: M8PFOS	*31.9*			ng/L	34.8		91.7		50-200			
Surrogate: M9PFNA	*30.7*			ng/L	36.3		84.8		50-200			
Surrogate: MPFDoA	*28.2*			ng/L	36.3		77.8		50-200			
Matrix Spike Dup (B352010-MSD1)	**Source: 23H4428-01RE1**				Prepared: 09/15/23 Analyzed: 09/20/23							
Perfluorobutanoic acid (PFBA)	2.55	1.7	0.61	ng/L	1.75	ND	**146**	*	70-130	4.98	30	MS-12
Perfluorobutanesulfonic acid (PFBS)	1.69	1.7	0.40	ng/L	1.55	ND	109		70-130	1.38	30	J
Perfluoropentanoic acid (PFPeA)	1.95	1.7	0.50	ng/L	1.75	ND	111		70-130	6.04	30	
Perfluorohexanoic acid (PFHxA)	2.00	1.7	0.51	ng/L	1.75	ND	114		70-130	0.346	30	
11Cl-PF3OUdS (F53B Major)	1.59	1.7	0.60	ng/L	1.65	ND	96.4		70-130	0.662	30	J
9Cl-PF3ONS (F53B Minor)	1.66	1.7	0.67	ng/L	1.63	ND	102		70-130	8.34	30	J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.48	1.7	0.67	ng/L	1.65	ND	89.7		70-130	6.23	30	J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.68	1.7	0.77	ng/L	1.75	ND	95.9		70-130	21.5	30	J
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.98	1.7	0.55	ng/L	1.68	ND	118		70-130	18.1	30	
Perfluorodecanoic acid (PFDA)	2.26	1.7	0.47	ng/L	1.75	ND	129		70-130	4.03	30	
Perfluorododecanoic acid (PFDoA)	1.88	1.7	0.44	ng/L	1.75	ND	107		70-130	7.86	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.90	1.7	0.66	ng/L	1.56	ND	122		70-130	2.90	30	
Perfluoroheptanesulfonic acid (PFHpS)	1.75	1.7	0.30	ng/L	1.67	ND	105		70-130	10.7	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.92	1.7	0.46	ng/L	1.64	ND	117		70-130	3.80	30	
Perfluorohexanesulfonic acid (PFHxS)	2.08	1.7	0.63	ng/L	1.60	ND	130		70-130	19.5	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.94	1.7	0.32	ng/L	1.75	ND	111		70-130	0.275	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.67	1.7	0.64	ng/L	1.75	ND	95.2		70-130	7.15	30	J
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.18	1.7	1.3	ng/L	1.66	ND	**131**	*	70-130	5.79	30	MS-12
Perfluoropentanesulfonic acid (PFPeS)	1.76	1.7	0.49	ng/L	1.64	ND	107		70-130	3.04	30	
Perfluoroundecanoic acid (PFUnA)	2.06	1.7	0.45	ng/L	1.75	ND	118		70-130	2.45	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.74	1.7	0.69	ng/L	1.75	ND	99.7		70-130	0.606	30	
Perfluoroheptanoic acid (PFHpA)	2.05	1.7	0.78	ng/L	1.75	ND	117		70-130	0.482	30	
Perfluorooctanoic acid (PFOA)	2.47	1.7	0.66	ng/L	1.75	ND	**141**	*	70-130	4.76	30	MS-22
Perfluorooctanesulfonic acid (PFOS)	1.80	1.7	0.40	ng/L	1.62	ND	111		70-130	4.60	30	
Perfluorononanoic acid (PFNA)	2.27	1.7	0.47	ng/L	1.75	ND	130		70-130	3.89	30	
Surrogate: M2-4:2FTS	*20.6*			ng/L	32.8		62.9		50-200			
Surrogate: M2-8:2FTS	*29.6*			ng/L	33.6		88.0		50-200			
Surrogate: MPFBA	*21.7*			ng/L	35.0		62.2		50-200			
Surrogate: M3HFPO-DA	*21.8*			ng/L	35.0		62.4		50-200			
Surrogate: M6PFDA	*26.9*			ng/L	35.0		77.0		50-200			
Surrogate: M3PFBS	*30.2*			ng/L	32.6		92.6		50-200			
Surrogate: M7PFUnA	*28.9*			ng/L	35.0		82.6		50-200			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352010 - EPA 533											
Matrix Spike Dup (B352010-MSD1)	**Source: 23H4428-01RE1**				Prepared: 09/15/23 Analyzed: 09/20/23						
Surrogate: M2-6:2FTS	*44.7*			ng/L	33.3		134	50-200			
Surrogate: M5PFPeA	*21.1*			ng/L	35.0		60.3	50-200			
Surrogate: M5PFHxA	*20.7*			ng/L	35.0		59.3	50-200			
Surrogate: M3PFHxS	*31.0*			ng/L	33.2		93.6	50-200			
Surrogate: M4PFHpA	*20.6*			ng/L	35.0		59.0	50-200			
Surrogate: M8PFOA	*23.3*			ng/L	35.0		66.7	50-200			
Surrogate: M8PFOS	*31.5*			ng/L	33.5		94.0	50-200			
Surrogate: M9PFNA	*25.7*			ng/L	35.0		73.5	50-200			
Surrogate: MPFDoA	*27.4*			ng/L	35.0		78.4	50-200			

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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
DL	Method Detection Limit
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-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-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	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
S-29	Extracted Internal Standard is outside of control limits.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

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

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

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CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

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

Company Name:	NYSDEC - Central / Precision Environmental
Address:	625 Broadway, Albany, NY
Phone:	(518) 885-4395 (DEC)
Project Name:	SANG - Kroll
Project Location:	351 Mount Airy Rd., New Windsor, NY
Project Number:	Spill: 330089
Project Manager:	Dave Chiusano (DEC) / Brian Neumann (PES)
Pace Analytical Quote Name/Number	
Invoice Recipient:	NYSDEC - Central
Sampled By:	Patrick Sokolowski (PES)

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Standard

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: DEC / PES
Fax To #:

ANALYSIS REQUESTED

PFAS Method 533

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PFAS	# of Containers	[2] Preservation Code	[3] Container Code
1	Effluent	8-28-23	1100		X	DW		X	24	O	P
2	B-75		1110								
3	B-50		1115								
4	B-25		1120								
5	MW Point		1125								
6	A-75		1130								
7	A-50		1135								
8	A-25		1140								
9	~~Influent~~ Raw Water		1145								
10	Duplicate	↓	—		↓	↓		↓			

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)
Ammonium Acetate

[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:
*CC Report to Brian Neumann @ Precision (bneumann@pesny.inc.com)
*CAT B Deliverables

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

Relinquished by: (signature)		Date/Time: 8-29-23 1125
Received by: (signature)		Date/Time: 8-29-23 1125
Relinquished by: (signature)		Date/Time: 8/29/23 1600
Received by: (signature)		Date/Time: 8/30 0730
Relinquished by: (signature)		Date/Time: 8/30 1000
Received by: (signature)	42	Date/Time: 8/30 1000

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

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Precision Environmental

Project SANG - Mill

MCP/RCP Required N/A

Deliverable Package Requirement CATB

Location 351 Mount Airy Rd, Arw Windsor, NJ

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐ _____

Received By / Date / Time MSM 8/31/23 1000

Back-Sheet By / Date / Time LA 8/31/23 808

Temperature Method gun #5

Temp 6° C Actual Temperature 4.2

Rush Samples: Yes / (No) Notify _____

Short Hold: Yes / (No) Notify _____

Notes regarding Samples/COC outside of SOP:

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	☐	☑
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) ☐ ☐

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 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL																					
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL																					
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate			6	2																		
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl																						
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other / Fill in																				

Qualtrax ID: 120836