

July 6, 2023

Albertson Water District  
PWS ID No. NY2902815  
MCL Deferral for PFOA and PFOS  
Quarterly Report – Second Quarter 2023

## **Introduction**

On behalf of the Albertson Water District (AWD or District), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for the AWD who was granted a deferral renewal from maximum contaminant level (MCL) violations for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). The District's deferral renewal expired on April 25, 2023 and no extension was granted.

The enclosed is a report describing the AWD's progress towards maintaining the highest quality of water for our customers and meeting the deadlines set forth in the deferral approval. An updated schedule for these efforts is contained in Attachment A.

## **Corrective Action Plan Milestones**

### Granular Activated Carbon (GAC) System at Well 4

Well #4 was removed from pumping to distribution on March 21, 2023 to allow the construction activities to continue. Due to manufacturing timeframes, the well is anticipated to be returned to service in the late summer of 2023.

Since the last quarterly report, work on the project including the new GAC building has proceeded. The GAC vessel media has been delivered. The demolition of the existing booster pump and associated electrical equipment has been completed. The new booster pump is expected to be delivered within the next 2 weeks. Electrical work within the existing building has started and conduit is in the process of being run throughout the building. New chemical panels and remote terminal units (RTUs) have been delivered.

The AWD's goal, as always, is to provide an adequate supply of potable water to its consumers and it has done everything in its ability to move forward on the treatment project to further that goal and meet consumer demands. The impacts to the completion of this project over the last three years were unprecedented. The District will continue to not utilize the well until the treatment is installed.

While Well 4 remained in service through the deferral and subsequent renewal period, operation of the well to the distribution system had been limited and it was utilized as the last one to be turned on and the first one to be turned off when demands required. Additionally, it should be noted that the sample obtained during this quarter did not exceed the MCL for PFOA or PFOS.



## Public Notification

In accordance with the terms of the deferral renewal, the AWD has maintained an open line of communication with the public regarding its deferral. The deferral public notification documentation is still featured prominently on the District website, as are all quarterly reports from 2021, 2022, and the First Quarter 2023. This will be the last report as the deferral expired and the well remains out of service.

## Analytical Sampling

Sampling results for Well 4 taken during the second quarter of 2023 are contained in the tables below. The full laboratory report for the sample is contained in Attachment B.

### PFOA (parts per trillion, ppt)

Well 4	<b>Date</b>
	04/24/23
	4.3

### PFOS (parts per trillion, ppt)

Well 4	<b>Date</b>
	04/24/23
	6.5

## Conclusion

As demonstrated above, the Albertson Water District is actively working to preserve the quality of water for its customers and comply with the requirements put forth by the NYSDOH. The District looks forward to continuing to work towards completion of its treatment facilities. Should you have any questions, please contact the District at 516-621-3610 or visit the website, [www.albertsonwater.org](http://www.albertsonwater.org).

Very truly yours,

Board of Commissioners  
Albertson Water District

Enclosures

cc: K. Wheeler (NYSDOH)  
B. Rogers (NYSDOH)  
W. Provoncha (NCDH)  
P. Young (NCDH)



R. Putnam (NCDH)  
R. Henriksen (AWD)  
J. Rotolo (AWD)  
B. Merklin (D&B)  
L. Ortiz (D&B)  
P. Connell (D&B)



**ATTACHMENT A**

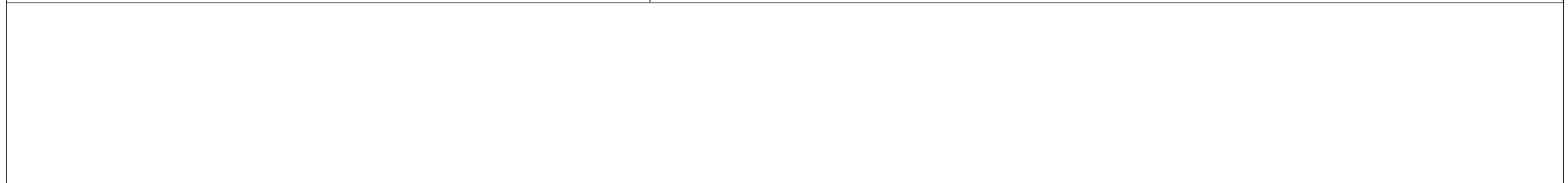
**Project Schedule Associated with MCL Deferral**



Albertson Water District  
MCL Deferral  
Q2 2023 Quarterly Report

Well 4  
GAC Project Schedule

Task Name	2022				2023			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Basis of Design Report (Complete)								
Detailed Design (Complete)								
NCDH & NYSDOH Review of Contract Documents (Complete)								
Construction (Delayed Due to Stop Work Order)								
Stop Work Order Issued by TONH (06/21/2021)								
Stop Work Order (Upheld During Permitting)								
Court Decision (06/22/2022)								
Building and Plumbing Permits (Issued)								
Court Decision Appeal (Estimated Decision 10/15/2022)								
Remobilization / Change Order Negotiation (Complete)								
Construction (In Progress)								
Startup and Testing								





## **ATTACHMENT B**

### **Water Quality Data**



May 2, 2023

Jennifer Aracri  
Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747

Project Location: NY  
Client Job Number:  
Project Number: 70253850  
Laboratory Work Order Number: 23D3149

Enclosed are results of analyses for samples as received by the laboratory on April 26, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano  
Project Manager



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Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747  
ATTN: Jennifer Aracri

REPORT DATE: 5/2/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70253850

#### ANALYTICAL SUMMARY

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WORK ORDER NUMBER: 23D3149

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

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-05947	23D3149-01	Drinking Water		EPA 533	
N-05947 FB	23D3149-02	Field Blank		EPA 533	



**CASE NARRATIVE SUMMARY**

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

**EPA 533****Qualifications:****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:****M2-8:2FTS**

23D3149-01[N-05947], 23D3149-02[N-05947 FB]

**S-29**

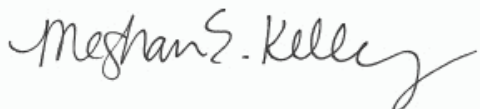
Extracted Internal Standard is outside of control limits.

**Analyte & Samples(s) Qualified:****M3HFPO-DA**

S086714-CCV1

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



Project Location: NY

Sample Description:

Work Order: 23D3149

Date Received: 4/26/2023

**Field Sample #: N-05947**
**Sampled: 4/24/2023 13:20**
**Sample ID: 23D3149-01**

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)	1.4	2.0	0.71		ng/L	1	J	EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluorobutanesulfonic acid (PFBS)	0.78	2.0	0.46		ng/L	1	J	EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoropentanoic acid (PFPeA)	1.4	2.0	0.58		ng/L	1	J	EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluorohexanoic acid (PFHxA)	1.5	2.0	0.59		ng/L	1	J	EPA 533	4/27/23	4/28/23 20:20	JR2
11Cl-PF3OUdS (F53B Major)	ND	2.0	0.70		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
9Cl-PF3ONS (F53B Minor)	ND	2.0	0.78		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	0.77		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	0.89		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	0.64		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluorodecanoic acid (PFDA)	ND	2.0	0.55		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluorododecanoic acid (PFDoA)	ND	2.0	0.50		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	0.76		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoroheptanesulfonic acid (PFHpS)	1.0	2.0	0.35		ng/L	1	J	EPA 533	4/27/23	4/28/23 20:20	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	0.53		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluorohexanesulfonic acid (PFHxS)	3.7	2.0	0.73		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	0.37		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	0.74		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	1.5		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoropentanesulfonic acid (PFPeS)	0.65	2.0	0.57		ng/L	1	J	EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoroundecanoic acid (PFUnA)	ND	2.0	0.52		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.80		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2
Perfluoroheptanoic acid (PFHpA)	1.4	2.0	0.90		ng/L	1	J	EPA 533	4/27/23	4/28/23 20:20	JR2
<b>Perfluorooctanoic acid (PFOA)</b>	<b>4.3</b>	<b>2.0</b>	<b>0.76</b>		<b>ng/L</b>	<b>1</b>		<b>EPA 533</b>	<b>4/27/23</b>	<b>4/28/23 20:20</b>	<b>JR2</b>
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>6.5</b>	<b>2.0</b>	<b>0.46</b>		<b>ng/L</b>	<b>1</b>		<b>EPA 533</b>	<b>4/27/23</b>	<b>4/28/23 20:20</b>	<b>JR2</b>
Perfluorononanoic acid (PFNA)	16	2.0	0.54		ng/L	1		EPA 533	4/27/23	4/28/23 20:20	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	61.2	50-200	
<b>M2-8:2FTS</b>	<b>209</b>	<b>*</b>	<b>50-200</b>
MPFBA	88.3	50-200	PF-17
M3HFPO-DA	93.8	50-200	
M6PFDA	93.3	50-200	
M3PFBS	95.6	50-200	
M7PFUnA	93.2	50-200	
M2-6:2FTS	79.3	50-200	
M5PFPeA	94.0	50-200	
M5PFHxA	89.9	50-200	
M3PFHxS	93.5	50-200	
M4PFHpA	88.0	50-200	
M8PFOA	86.4	50-200	
M8PFOS	92.5	50-200	
M9PFNA	85.2	50-200	
MPFDoA	89.1	50-200	



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

Project Location: NY

Sample Description:

Work Order: 23D3149

Date Received: 4/26/2023

Field Sample #: N-05947 FB

Sampled: 4/24/2023 13:20

Sample ID: 23D3149-02

Sample Matrix: Field Blank

## Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9	0.65	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.42	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.53	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.9	0.54	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.64	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.71	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.71	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	0.81	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	0.59	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9	0.50	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.46	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.9	0.70	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	0.32	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	0.49	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.67	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	0.34	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	0.68	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	1.4	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	0.52	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.48	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.74	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.82	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorooctanoic acid (PFOA)	ND	1.9	0.70	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.42	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2
Perfluorononanoic acid (PFNA)	ND	1.9	0.50	ng/L	1		EPA 533	4/27/23	4/28/23 20:42	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	77.1	50-200	
M2-8:2FTS	532 *	50-200	PF-17
MPFBA	101	50-200	
M3HFPO-DA	111	50-200	
M6PFDA	118	50-200	
M3PFBS	97.1	50-200	
M7PFUnA	108	50-200	
M2-6:2FTS	96.5	50-200	
M5PFPeA	103	50-200	
M5PFHxA	91.4	50-200	
M3PFHxS	96.0	50-200	
M4PFHpA	96.3	50-200	
M8PFOA	102	50-200	
M8PFOS	99.1	50-200	
M9PFNA	110	50-200	
MPFDoA	108	50-200	



**Sample Extraction Data****Prep Method:** EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23D3149-01 [N-05947]	B338515	247	1.00	04/27/23
23D3149-02 [N-05947 FB]	B338515	270	1.00	04/27/23



**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
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**Batch B338515 - EPA 533**
**Blank (B338515-BLK1)**

Prepared: 04/27/23 Analyzed: 04/28/23

Perfluorobutanoic acid (PFBA)	ND	1.9	0.66	ng/L
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.43	ng/L
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.54	ng/L
Perfluorohexanoic acid (PFHxA)	ND	1.9	0.55	ng/L
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.65	ng/L
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.72	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.72	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	0.83	ng/L
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	0.60	ng/L
Perfluorodecanoic acid (PFDA)	ND	1.9	0.51	ng/L
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.47	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.9	0.71	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	0.32	ng/L
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	0.49	ng/L
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.67	ng/L
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	0.35	ng/L
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	0.69	ng/L
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	1.4	ng/L
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	0.53	ng/L
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.48	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.75	ng/L
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.84	ng/L
Perfluorooctanoic acid (PFOA)	ND	1.9	0.71	ng/L
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.43	ng/L
Perfluorononanoic acid (PFNA)	ND	1.9	0.50	ng/L

Surrogate: M2-4:2FTS	28.0			ng/L	35.3	79.3	50-200
Surrogate: M2-8:2FTS	69.3			ng/L	36.1	192	50-200
Surrogate: MPFBA	36.9			ng/L	37.6	98.1	50-200
Surrogate: M3HFPO-DA	39.5			ng/L	37.6	105	50-200
Surrogate: M6PFDA	37.4			ng/L	37.6	99.5	50-200
Surrogate: M3PFBS	34.4			ng/L	35.0	98.1	50-200
Surrogate: M7PFUnA	37.5			ng/L	37.6	99.6	50-200
Surrogate: M2-6:2FTS	36.8			ng/L	35.8	103	50-200
Surrogate: M5PFPeA	36.6			ng/L	37.6	97.5	50-200
Surrogate: M5PFHxA	36.8			ng/L	37.6	97.8	50-200
Surrogate: M3PFHxS	34.1			ng/L	35.6	95.7	50-200
Surrogate: M4PFHpA	35.8			ng/L	37.6	95.2	50-200
Surrogate: M8PFOA	36.3			ng/L	37.6	96.6	50-200
Surrogate: M8PFOS	35.5			ng/L	36.1	98.3	50-200
Surrogate: M9PFNA	36.0			ng/L	37.6	95.7	50-200
Surrogate: MPFDoA	35.4			ng/L	37.6	94.1	50-200

**LCS (B338515-BS1)**

Prepared: 04/27/23 Analyzed: 04/28/23

Perfluorobutanoic acid (PFBA)	2.05	1.8	0.64	ng/L	1.84	112	50-150	
Perfluorobutanesulfonic acid (PFBS)	1.47	1.8	0.42	ng/L	1.63	90.4	50-150	J
Perfluoropentanoic acid (PFPeA)	1.85	1.8	0.53	ng/L	1.84	101	50-150	
Perfluorohexanoic acid (PFHxA)	1.71	1.8	0.54	ng/L	1.84	93.2	50-150	J
11Cl-PF3OUdS (F53B Major)	1.60	1.8	0.63	ng/L	1.73	92.6	50-150	J



**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
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**Batch B338515 - EPA 533**
**LCS (B338515-BS1)**

Prepared: 04/27/23 Analyzed: 04/28/23

9Cl-PF3ONS (F53B Minor)	1.76	1.8	0.71	ng/L	1.71		103	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.70	1.8	0.70	ng/L	1.73		98.0	50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.50	1.8	0.81	ng/L	1.84		81.5	50-150			J
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.64	1.8	0.58	ng/L	1.76		92.8	50-150			J
Perfluorodecanoic acid (PFDA)	1.62	1.8	0.50	ng/L	1.84		88.2	50-150			J
Perfluorododecanoic acid (PFDoA)	1.59	1.8	0.46	ng/L	1.84		86.7	50-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.57	1.8	0.69	ng/L	1.64		96.3	50-150			J
Perfluoroheptanesulfonic acid (PFHpS)	1.54	1.8	0.32	ng/L	1.75		87.8	50-150			J
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.47	1.8	0.48	ng/L	1.72		85.7	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.40	1.8	0.66	ng/L	1.68		83.1	50-150			J
Perfluoro-4-oxapentanoic acid (PFMPA)	1.82	1.8	0.34	ng/L	1.84		98.8	50-150			J
Perfluoro-5-oxahexanoic acid (PFMBA)	1.72	1.8	0.67	ng/L	1.84		93.8	50-150			J
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.89	1.8	1.4	ng/L	1.75		108	50-150			J
Perfluoropetanesulfonic acid (PFPeS)	1.67	1.8	0.52	ng/L	1.73		96.8	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.80	1.8	0.47	ng/L	1.84		98.0	50-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.79	1.8	0.73	ng/L	1.84		97.6	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.77	1.8	0.82	ng/L	1.84		96.6	50-150			J
Perfluorooctanoic acid (PFOA)	1.82	1.8	0.70	ng/L	1.84		98.9	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.61	1.8	0.42	ng/L	1.70		94.8	50-150			J
Perfluorononanoic acid (PFNA)	1.57	1.8	0.49	ng/L	1.84		85.4	50-150			J
Surrogate: M2-4:2FTS	25.4			ng/L	34.5		73.8	50-200			
Surrogate: M2-8:2FTS	63.8			ng/L	35.3		181	50-200			
Surrogate: MPFBA	34.7			ng/L	36.7		94.5	50-200			
Surrogate: M3HFPO-DA	37.2			ng/L	36.7		101	50-200			
Surrogate: M6PFDA	36.0			ng/L	36.7		97.8	50-200			
Surrogate: M3PFBS	32.3			ng/L	34.2		94.2	50-200			
Surrogate: M7PFUnA	32.7			ng/L	36.7		89.1	50-200			
Surrogate: M2-6:2FTS	30.4			ng/L	34.9		87.0	50-200			
Surrogate: M5PFPeA	34.8			ng/L	36.7		94.7	50-200			
Surrogate: M5PFHxA	34.1			ng/L	36.7		92.7	50-200			
Surrogate: M3PFHxS	33.3			ng/L	34.8		95.5	50-200			
Surrogate: M4PFHpA	34.0			ng/L	36.7		92.6	50-200			
Surrogate: M8PFOA	33.2			ng/L	36.7		90.5	50-200			
Surrogate: M8PFOS	30.2			ng/L	35.2		85.6	50-200			
Surrogate: M9PFNA	33.5			ng/L	36.7		91.2	50-200			
Surrogate: MPFDoA	32.4			ng/L	36.7		88.1	50-200			

**LCS Dup (B338515-BSD1)**

Prepared: 04/27/23 Analyzed: 04/28/23

Perfluorobutanoic acid (PFBA)	2.07	1.8	0.63	ng/L	1.81		115	50-150	0.882	50	
Perfluorobutanesulfonic acid (PFBS)	1.51	1.8	0.41	ng/L	1.60		94.6	50-150	3.00	50	J
Perfluoropentanoic acid (PFPeA)	1.84	1.8	0.52	ng/L	1.81		102	50-150	0.436	50	
Perfluorohexanoic acid (PFHxA)	1.81	1.8	0.53	ng/L	1.81		100	50-150	5.49	50	
11Cl-PF3OUdS (F53B Major)	1.48	1.8	0.62	ng/L	1.70		86.6	50-150	8.30	50	J
9Cl-PF3ONS (F53B Minor)	1.52	1.8	0.70	ng/L	1.69		90.4	50-150	14.4	50	J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.74	1.8	0.69	ng/L	1.70		102	50-150	2.86	50	J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.56	1.8	0.79	ng/L	1.81		86.5	50-150	4.32	50	J
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.38	1.8	0.57	ng/L	1.74		79.4	50-150	17.2	50	J



**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
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**Batch B338515 - EPA 533**
**LCS Dup (B338515-BSD1)**

Prepared: 04/27/23 Analyzed: 04/28/23

Perfluorodecanoic acid (PFDA)	1.73	1.8	0.49	ng/L	1.81		95.7	50-150	6.63	50	J
Perfluorododecanoic acid (PFDoA)	1.80	1.8	0.45	ng/L	1.81		99.5	50-150	12.1	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.60	1.8	0.68	ng/L	1.61		99.4	50-150	1.56	50	J
Perfluoroheptanesulfonic acid (PFHpS)	1.73	1.8	0.31	ng/L	1.73		99.9	50-150	11.3	50	J
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.57	1.8	0.48	ng/L	1.69		92.9	50-150	6.44	50	J
Perfluorohexanesulfonic acid (PFHxS)	1.52	1.8	0.65	ng/L	1.65		91.8	50-150	8.34	50	J
Perfluoro-4-oxapentanoic acid (PFMPA)	1.80	1.8	0.33	ng/L	1.81		99.4	50-150	1.00	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.76	1.8	0.66	ng/L	1.81		97.5	50-150	2.29	50	J
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.43	1.8	1.4	ng/L	1.72		83.4	50-150	27.2	50	J
Perfluoropetanesulfonic acid (PFPeS)	1.57	1.8	0.51	ng/L	1.70		92.4	50-150	6.30	50	J
Perfluoroundecanoic acid (PFUnA)	1.64	1.8	0.46	ng/L	1.81		90.6	50-150	9.42	50	J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.73	1.8	0.72	ng/L	1.81		95.8	50-150	3.42	50	J
Perfluoroheptanoic acid (PFHpA)	1.80	1.8	0.80	ng/L	1.81		99.5	50-150	1.40	50	
Perfluorooctanoic acid (PFOA)	1.78	1.8	0.68	ng/L	1.81		98.5	50-150	1.93	50	J
Perfluorooctanesulfonic acid (PFOS)	1.57	1.8	0.41	ng/L	1.67		93.9	50-150	2.54	50	J
Perfluorononanoic acid (PFNA)	1.79	1.8	0.48	ng/L	1.81		98.9	50-150	13.1	50	J
Surrogate: M2-4:2FTS	24.4			ng/L	33.9		72.0	50-200			
Surrogate: M2-8:2FTS	66.4			ng/L	34.7		191	50-200			
Surrogate: MPFBA	34.4			ng/L	36.2		95.0	50-200			
Surrogate: M3HFPO-DA	42.4			ng/L	36.2		117	50-200			
Surrogate: M6PFDA	33.7			ng/L	36.2		93.2	50-200			
Surrogate: M3PFBS	31.3			ng/L	33.7		92.9	50-200			
Surrogate: M7PFUnA	32.6			ng/L	36.2		90.1	50-200			
Surrogate: M2-6:2FTS	30.4			ng/L	34.4		88.4	50-200			
Surrogate: M5PFPeA	34.0			ng/L	36.2		94.0	50-200			
Surrogate: M5PFHxA	34.9			ng/L	36.2		96.6	50-200			
Surrogate: M3PFHxS	31.8			ng/L	34.3		92.8	50-200			
Surrogate: M4PFHpA	34.1			ng/L	36.2		94.3	50-200			
Surrogate: M8PFOA	33.7			ng/L	36.2		93.2	50-200			
Surrogate: M8PFOS	31.0			ng/L	34.7		89.4	50-200			
Surrogate: M9PFNA	32.3			ng/L	36.2		89.3	50-200			
Surrogate: MPFDoA	33.4			ng/L	36.2		92.3	50-200			



**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).
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.
S-29	Extracted Internal Standard is outside of control limits.



**CERTIFICATIONS**
**Certified Analyses included in this Report**

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

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

Code	Description	Number	Expires
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	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023



23D3149




**Cert. Needed:** ☒ Yes ☐ No

Owner Received Date: 4/24/2023 Results Requested By: 5/9/2023

**Requested Analysis**

Pace New England  
39 Spruce St.  
East Longmeadow, MA 01028  
Phone (413)525-2332

[illegible]

Transfers		Released By	Date/Time	Received By	Date/Time	Comments			
1			4/25/21	LA	0958				
2									
3									
Cooler Temperature on Receipt		2.3 °C	Custody Seal		Y or N	Received on Ice	Y or N	Samples Intact	Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

*This chain of custody is considered complete as is since this information is available in the owner laboratory.*



058352070253850

Copies To:

[illegible]Cooler Temp: 3.4 °C☐ YES ☐ NO VOC'S PRESERVED WITH HCl

**Sample Types**  
 PW - Potable Water  
 GW - Groundwater  
 SW - Surface Water  
 WW - Waste Water  
 AQ - Aqueous  
 S - Soil

Purpose	RO	RE	S
- Round			
- Resa			
- Spee			

## Origini

D	-	Distribution
RW	-	Raw Well
TW	-	Treated Well
T	-	Tank
MW	-	Monitoring Well
I	-	Influent
E	-	Effluent

## Treatment Types

AST - Air Stripper  
GAC - Granular Activated Charcoal  
N - Nitrate Removal Plant  
FE - Iron Removal Plant  
O - Other



WO#: 70253850

PM: JSA Due Date: 05/09/23

**PM: JSA**

**Client:**

Profile #

5128

Use Point Number Spreadsheet



**CLIENT: PWD**

WORK ORDER: DEAS 53347H Notes

DEAS 533 4/24

[illegible]

## Container Loads

Glass		Plastic		Misc.	
VG9U	40ml. unpres. clear vial	AG4U	125ml. unpres. amber	SP-5T	120ml. Colliform Na Thio
VG9C	40ml. Ascorbic-HCl	AG3U	250ml. unpres. amber	R	Terracora Kit
VG9H	40ml. HCl clear vial	AG2U	500ml. unpres. amber	WG2U	202 Unpreserved Jar
VG9S	40ml. Sulfuric clear vial	AG1U	1 liter unpres. amber	WG1U	402 Unpreserved Jar
DG9T	40ml. Na Thiosulfate vial	AG34	Ammonium Cl 250ml	WGKU	402 Unpreserved Jar
DG9Y	40ml. Citrate-Na	AG3S	250ml. H2SO4 amber	WGDU	1602 Unpreserved Jar
DG9P	40ml. amber vial - TSP	AG4E	125ml. EDA amber	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid	AG3T	250ml. Na Thio amber	TEOL	Tedlar Bag
DG4T	40ml. 60ml. Vial	AG2R	Na Sulfite 500ml. blue	BGTH	1 L HCl. Clear Glass
DG9S	Ammonium CUCuSO4	AG1T	Na Thiosulfate 1L bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	WP	Wipe
		AG1A	1L Ammonium Chloride		
WG9O	8oz clear soil jar			BP-35	250ml. Ammonium
WG4O	4oz clear soil jar			BP3R	250ml. NH4SO4-
				BP1Z	1L NaOH, Zn Acetate
				BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium
AG2U	500mL unpres amber

- Can also be a BP4N

SOC	
DG9T	40mL Na Thio amber 2
DG9A	40mL Ascorbic acid 2
DG9Y	Citrate/Na Thiosulfate 2
DG6T	Na Thiosulfate 60mL vial 1
AG3U	250mL unpres amber
AG3T	Na Thiosulfate 250mL
BP1B	Na Thiosulfate Amber
AG1T	Na Thiosulfate 1L 2
AG1A	(NH4CL) 2

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

Additional Comments



Pace Analytical

# Sample Condition Upon Receipt

Client Name:

Project

WO#: 70253850

PH: JSA

Due Date: 05/09/23

CLIENT: AND

Courier: ☐ Fed-Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Air ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/A

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

Thermometer Used: TH0 TH148 Correction Factor: -0.3

Cooler Temperature(°C): 3.4 Cooler Temperature Corrected(°C): 3.1

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A water sample)

Date and Initials of person examining contents: MP 4/24/23

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for I)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.
Includes date/time/ID/Matrix: SCWT Oil		
All containers needing preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with method recommendation?		
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH > 9 Sulfide, NAOH > 12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TDC/DGC, Oil and Grease, DRD/8015 (water).		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



FedEx® Tracking



DELIVERED

Wednesday

4/26/2023 at 9:58 am

Signed for by: LOUIS

↓ Obtain Proof of delivery

How was your delivery?



DELIVERY STATUS

Delivered

TRACKING ID

642863548670

FROM

MELVILLE, NY US

Label Created

4/25/2023 4:48 PM

PACKAGE RECEIVED BY FEDEX

MELVILLE, NY

4/25/2023 5:58 PM

IN TRANSIT

WINDSOR LOCKS, CT

4/26/2023 7:29 AM

OUT FOR DELIVERY

WINDSOR LOCKS, CT

4/26/2023 7:53 AM

DELIVERED

EAST LONGMEADOW, MA US

Delivered

4/26/2023 at 9:58 AM

↓ View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

SUBMIT

MORE OPTIONS

Manage Delivery





## Log In Back-Sheet

**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**



Client Pace - New York

Project \_\_\_\_\_

MCP/RCP Required N/A

Deliverable Package Req. N/A

Location Me/ville, NY

PWSID# (When Applicable) NA

**Arrival Method:**

Courier ☐ Fed Ex ☒ Walk In ☐ Other ☐

Received By / Date / Time LA 4/26/23 0958

Back-Sheet By / Date / Time DW 4/26/23 1630

Temperature Method GUN # 5

Temp ☒  $< 6^{\circ}\text{C}$  Actual Temperature 2.3 $^{\circ}$

Rush Samples: Yes ☒ No ☐ Notify \_\_\_\_\_

Short Hold: Yes / No Notify \_\_\_\_\_

**Notes regarding Samples/COC outside of SOP:**

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-----------------------------	-------------------------------------	--------------------------

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 ) ☐ ☐

[illegible]