

July 1, 2021

Incorporated Village of Mineola

PWS ID No. NY2902839

MCL Deferral for 1,4-dioxane, PFOA, and PFOS

Quarterly Report – Second Quarter 2021

Introduction

On behalf of the Incorporated Village of Mineola (Village), 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 public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-dioxane, PFOA, and/or PFOS. The Village was granted an MCL deferral for 1,4-dioxane, PFOA, and PFOS in 2020. The Village was granted a deferral because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compounds.

The enclosed is a report describing the Village'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 – Well 4

The Village's Well 4 AOP treatment project is currently in the design phase. The Basis of Design Report was finalized and submitted to local and state health departments for review on February 26, 2021. Design components of the treatment and facility modifications are being advanced concurrently.

This past quarter, significant progress was made towards the design of the treatment facility. The detailed design process is on schedule, with final documents for local and state health departments on track to be submitted in the third quarter of 2021.

Although it has been granted a deferral, the Village did not use this well to supply drinking water in the second quarter of 2021.

Public Notification

In accordance with the terms of the deferral, the Village has maintained an open line of communication with the public regarding its deferral. The deferral public notification documentation is still featured prominently on the Village website, as are all previous quarterly reports.

Analytical Sampling

Sample results for Well 4 taken during the second quarter of 2021 are contained in the below tables. Full laboratory reports for each sample are contained in **Attachment B**.

1,4-dioxane (ppb)

Well	Date
	5/11/2021
Well 4 (N-3185)	0.50

PFOA (ppt)

Well	Date
	5/11/2021
Well 4 (N-3185)	16.6

PFOS (ppt)

Well	Date
	5/11/2021
Well 4 (N-3185)	5.1

Conclusion

As demonstrated above, the Village is actively working to preserve the quality of water for its customers and comply with the requirements put forth by the NYSDOH. The Village looks forward to continuing to work towards completion of its treatment facilities.

Should you have any questions, please contact the Village at 516-746-0750 or visit the website, www.mineola-ny.gov.

Very truly yours,

Board of Trustees
Incorporated Village of Mineola

Enclosures

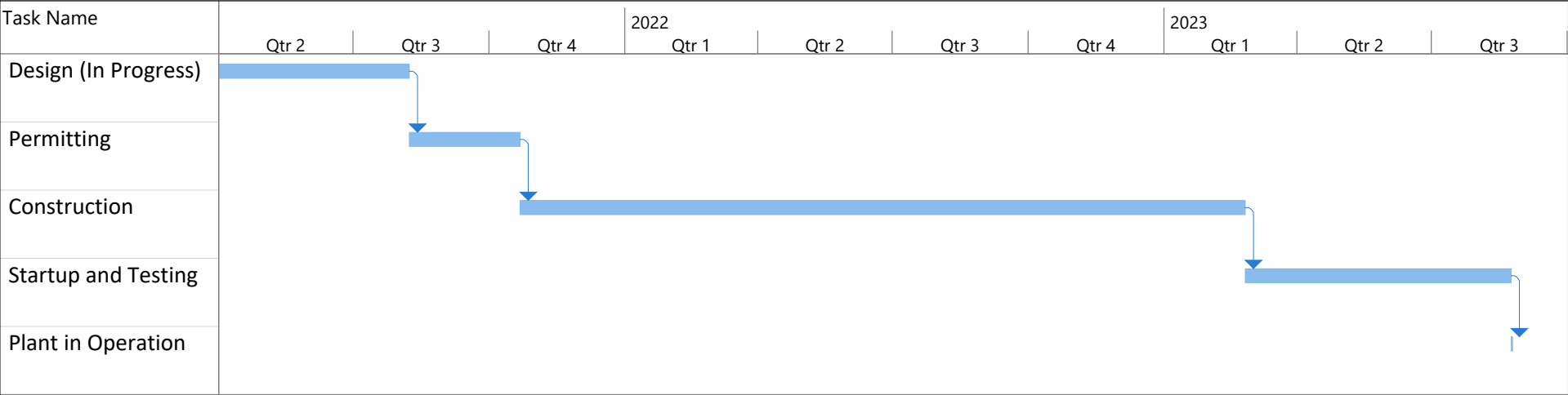
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
T. Rini (IVM)
J. Martin (IVM)
B. Merklin (D&B)
P. Connell (D&B)

ATTACHMENT A

Project Schedule Associated with MCL Deferral

Inc. Village of Mineola
MCL Deferral
Quarterly Report

Well 4
AOP Project Schedule



ATTACHMENT B

Water Quality Data

June 02, 2021

James Martin
Mineola, Inc. Village of
42 E. 2nd Street
Mineola, NY 11501

RE: Project: POC/NO3/BAC/1,4/PFAS 5/11
Pace Project No.: 70172496

Dear James Martin:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
James Van Horn, D&B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Virginia Certification # 460302

Delaware Certification # NY10478

Delaware Certification # NY10478

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70172496001	N-03185	Drinking Water	05/11/21 11:05	05/11/21 15:20
70172496002	N-03185 FB	Drinking Water	05/11/21 11:05	05/11/21 15:20
70172496003	AS-03185	Drinking Water	05/11/21 11:32	05/11/21 15:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70172496001	N-03185	SM22 9223B Colilert	GFD	2	PACE-MV
		EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	9	PASI-O
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
70172496002	N-03185 FB	EPA 537.1	SWR	9	PASI-O
70172496003	AS-03185	EPA 524.2	KGG	62	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Sample: N-03185 **Lab ID: 70172496001** **Collected: 05/11/21 11:05** Received: 05/11/21 15:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert									
Pace Analytical Services - Melville									
Total Coliforms	Absent				1	05/11/21 18:00	05/12/21 12:00		
E.coli	Absent				1	05/11/21 18:00	05/12/21 12:00		
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.50	ug/L	0.020		1	05/14/21 09:10	05/14/21 22:13	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	05/14/21 09:10	05/14/21 22:13		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/25/21 00:18	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/25/21 00:18	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/25/21 00:18	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/25/21 00:18	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/25/21 00:18	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/25/21 00:18	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/25/21 00:18	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		05/25/21 00:18	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/25/21 00:18	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/25/21 00:18	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/25/21 00:18	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/25/21 00:18	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/25/21 00:18	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/25/21 00:18	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/25/21 00:18	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/25/21 00:18	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/25/21 00:18	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/25/21 00:18	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/25/21 00:18	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/25/21 00:18	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/25/21 00:18	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/25/21 00:18	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/25/21 00:18	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Sample: N-03185 Lab ID: 70172496001 Collected: 05/11/21 11:05 Received: 05/11/21 15:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Ethylbenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/25/21 00:18	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/25/21 00:18	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/25/21 00:18	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/25/21 00:18	75-09-2	
Methyl-tert-butyl ether	0.50	ug/L	0.50		1		05/25/21 00:18	1634-04-4	IH,L1
n-Propylbenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/25/21 00:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	79-34-5	
Tetrachloroethene	7.0	ug/L	0.50		1		05/25/21 00:18	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/25/21 00:18	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/25/21 00:18		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	79-00-5	
Trichloroethene	9.7	ug/L	0.50		1		05/25/21 00:18	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/25/21 00:18	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/25/21 00:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/25/21 00:18	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/25/21 00:18	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/25/21 00:18	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/25/21 00:18	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/25/21 00:18	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	75	%	70-130		1		05/25/21 00:18	2199-69-1	
4-Bromofluorobenzene (S)	85	%	70-130		1		05/25/21 00:18	460-00-4	

537.1 PFAS Compounds, Water

Analytical Method: EPA 537.1 Preparation Method: EPA 537.1

Pace Analytical Services - Ormond Beach

Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/14/21 10:07	05/16/21 00:54	375-73-5	
Perfluoroheptanoic acid	3.7	ng/L	1.9		1	05/14/21 10:07	05/16/21 00:54	375-85-9	
Perfluorohexanesulfonic acid	5.4	ng/L	1.9		1	05/14/21 10:07	05/16/21 00:54	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/14/21 10:07	05/16/21 00:54	375-95-1	
Perfluorooctanesulfonic acid	5.1	ng/L	1.9	10	1	05/14/21 10:07	05/16/21 00:54	1763-23-1	
Perfluorooctanoic acid	16.6	ng/L	1.9	10	1	05/14/21 10:07	05/16/21 00:54	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	05/14/21 10:07	05/16/21 00:54		
13C2-PFHxA (S)	96	%	70-130		1	05/14/21 10:07	05/16/21 00:54		
HFPO-DAS (S)	74	%	70-130		1	05/14/21 10:07	05/16/21 00:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Sample: N-03185		Lab ID: 70172496001		Collected: 05/11/21 11:05		Received: 05/11/21 15:20		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	4.9	mg/L	0.25		5		05/12/21 00:21	14797-55-8	
Nitrate-Nitrite (as N)	4.9	mg/L	0.25		5		05/12/21 00:21	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:06	14797-65-0	

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ANALYTICAL RESULTS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Sample: N-03185 FB		Lab ID: 70172496002		Collected: 05/11/21 11:05		Received: 05/11/21 15:20		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach							
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/14/21 10:07	05/16/21 21:01	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/14/21 10:07	05/16/21 21:01	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	05/14/21 10:07	05/16/21 21:01	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/14/21 10:07	05/16/21 21:01	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9	10	1	05/14/21 10:07	05/16/21 21:01	1763-23-1	
Perfluorooctanoic acid	<1.9	ng/L	1.9	10	1	05/14/21 10:07	05/16/21 21:01	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	05/14/21 10:07	05/16/21 21:01		
13C2-PFHxA (S)	95	%	70-130		1	05/14/21 10:07	05/16/21 21:01		
HFPO-DAS (S)	86	%	70-130		1	05/14/21 10:07	05/16/21 21:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Sample: AS-03185		Lab ID: 70172496003		Collected: 05/11/21 11:32		Received: 05/11/21 15:20		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2 Pace Analytical Services - Melville							
Benzene	<0.50	ug/L	0.50		1		05/24/21 23:51	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/24/21 23:51	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/24/21 23:51	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/24/21 23:51	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/24/21 23:51	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/24/21 23:51	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/24/21 23:51	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		05/24/21 23:51	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/24/21 23:51	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/24/21 23:51	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/24/21 23:51	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/24/21 23:51	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/24/21 23:51	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/24/21 23:51	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/24/21 23:51	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/24/21 23:51	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/24/21 23:51	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/24/21 23:51	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/24/21 23:51	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/24/21 23:51	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/24/21 23:51	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/24/21 23:51	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/24/21 23:51	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/24/21 23:51	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/24/21 23:51	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/24/21 23:51	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/24/21 23:51	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/24/21 23:51	1634-04-4	L1
n-Propylbenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/24/21 23:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/24/21 23:51	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Sample: AS-03185		Lab ID: 70172496003		Collected: 05/11/21 11:32		Received: 05/11/21 15:20		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2 Pace Analytical Services - Melville							
Toluene	<0.50	ug/L	0.50		1		05/24/21 23:51	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/24/21 23:51		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/24/21 23:51	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/24/21 23:51	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/24/21 23:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/24/21 23:51	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/24/21 23:51	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/24/21 23:51	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/24/21 23:51	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/24/21 23:51	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	77	%	70-130		1		05/24/21 23:51	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130		1		05/24/21 23:51	460-00-4	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	4.6	mg/L	0.25		5		05/12/21 00:22	14797-55-8	
Nitrate-Nitrite (as N)	4.6	mg/L	0.25		5		05/12/21 00:22	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:07	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

QC Batch:	208273	Analysis Method:	SM22 9223B Colilert
QC Batch Method:	SM22 9223B Colilert	Analysis Description:	TotColDW MBIO Total Coliform
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70172496001		

METHOD BLANK: 1037235

Matrix: Drinking Water

Associated Lab Samples: 70172496001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli		Absent		05/12/21 12:00	
Total Coliforms		Absent		05/12/21 12:00	

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

QC Batch: 210285

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Analysis Description: 524.2 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70172496001, 70172496003

METHOD BLANK: 1051150

Matrix: Water

Associated Lab Samples: 70172496001, 70172496003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	05/24/21 17:54	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	05/24/21 17:54	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	05/24/21 17:54	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	05/24/21 17:54	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	05/24/21 17:54	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	05/24/21 17:54	
1,1-Dichloroethene	ug/L	<0.50	0.50	05/24/21 17:54	
1,1-Dichloropropene	ug/L	<0.50	0.50	05/24/21 17:54	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	05/24/21 17:54	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	05/24/21 17:54	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	05/24/21 17:54	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	05/24/21 17:54	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	05/24/21 17:54	
1,2-Dichloroethane	ug/L	<0.50	0.50	05/24/21 17:54	
1,2-Dichloropropane	ug/L	<0.50	0.50	05/24/21 17:54	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	05/24/21 17:54	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	05/24/21 17:54	
1,3-Dichloropropane	ug/L	<0.50	0.50	05/24/21 17:54	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	05/24/21 17:54	
2,2-Dichloropropane	ug/L	<0.50	0.50	05/24/21 17:54	
2-Chlorotoluene	ug/L	<0.50	0.50	05/24/21 17:54	
4-Chlorotoluene	ug/L	<0.50	0.50	05/24/21 17:54	
Benzene	ug/L	<0.50	0.50	05/24/21 17:54	
Bromobenzene	ug/L	<0.50	0.50	05/24/21 17:54	
Bromochloromethane	ug/L	<0.50	0.50	05/24/21 17:54	
Bromodichloromethane	ug/L	<0.50	0.50	05/24/21 17:54	
Bromoform	ug/L	<0.50	0.50	05/24/21 17:54	
Bromomethane	ug/L	<0.50	0.50	05/24/21 17:54	
Carbon tetrachloride	ug/L	<0.50	0.50	05/24/21 17:54	
Chlorobenzene	ug/L	<0.50	0.50	05/24/21 17:54	
Chlorodifluoromethane	ug/L	<0.50	0.50	05/24/21 17:54	N3
Chloroethane	ug/L	<0.50	0.50	05/24/21 17:54	
Chloroform	ug/L	<0.50	0.50	05/24/21 17:54	
Chloromethane	ug/L	<0.50	0.50	05/24/21 17:54	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	05/24/21 17:54	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	05/24/21 17:54	
Dibromochloromethane	ug/L	<0.50	0.50	05/24/21 17:54	
Dibromomethane	ug/L	<0.50	0.50	05/24/21 17:54	
Dichlorodifluoromethane	ug/L	<0.50	0.50	05/24/21 17:54	
Ethylbenzene	ug/L	<0.50	0.50	05/24/21 17:54	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

METHOD BLANK: 1051150

Matrix: Water

Associated Lab Samples: 70172496001, 70172496003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	05/24/21 17:54	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	05/24/21 17:54	
m&p-Xylene	ug/L	<0.50	0.50	05/24/21 17:54	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	05/24/21 17:54	
Methylene Chloride	ug/L	<0.50	0.50	05/24/21 17:54	
n-Butylbenzene	ug/L	<0.50	0.50	05/24/21 17:54	
n-Propylbenzene	ug/L	<0.50	0.50	05/24/21 17:54	
o-Xylene	ug/L	<0.50	0.50	05/24/21 17:54	
p-Isopropyltoluene	ug/L	<0.50	0.50	05/24/21 17:54	
sec-Butylbenzene	ug/L	<0.50	0.50	05/24/21 17:54	
Styrene	ug/L	<0.50	0.50	05/24/21 17:54	
tert-Butylbenzene	ug/L	<0.50	0.50	05/24/21 17:54	
Tetrachloroethene	ug/L	<0.50	0.50	05/24/21 17:54	
Toluene	ug/L	<0.50	0.50	05/24/21 17:54	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	05/24/21 17:54	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	05/24/21 17:54	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	05/24/21 17:54	
Trichloroethene	ug/L	<0.50	0.50	05/24/21 17:54	
Trichlorofluoromethane	ug/L	<0.50	0.50	05/24/21 17:54	
Vinyl chloride	ug/L	<0.50	0.50	05/24/21 17:54	
1,2-Dichlorobenzene-d4 (S)	%	79	70-130	05/24/21 17:54	
4-Bromofluorobenzene (S)	%	96	70-130	05/24/21 17:54	

LABORATORY CONTROL SAMPLE: 1051151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.7	87	70-130	
1,1,1-Trichloroethane	ug/L	10	9.9	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	12.8	128	70-130	
1,1,2-Trichloroethane	ug/L	10	11.9	119	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	12.9	129	70-130	N3
1,1-Dichloroethane	ug/L	10	12.6	126	70-130	
1,1-Dichloroethene	ug/L	10	10.3	103	70-130	
1,1-Dichloropropene	ug/L	10	12.2	122	70-130	
1,2,3-Trichlorobenzene	ug/L	10	9.1	91	70-130	
1,2,3-Trichloropropane	ug/L	10	11.2	112	70-130	
1,2,4-Trichlorobenzene	ug/L	10	9.3	93	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.5	95	70-130	
1,2-Dichlorobenzene	ug/L	10	8.7	87	70-130	
1,2-Dichloroethane	ug/L	10	12.5	125	70-130	
1,2-Dichloropropane	ug/L	10	12.2	122	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.2	92	70-130	
1,3-Dichlorobenzene	ug/L	10	9.1	91	70-130	
1,3-Dichloropropane	ug/L	10	12.5	125	70-130	

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

LABORATORY CONTROL SAMPLE: 1051151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	8.8	88	70-130	
2,2-Dichloropropane	ug/L	10	11.7	117	70-130	
2-Chlorotoluene	ug/L	10	11.6	116	70-130	
4-Chlorotoluene	ug/L	10	10.9	109	70-130	
Benzene	ug/L	10	11.0	110	70-130	
Bromobenzene	ug/L	10	8.6	86	70-130	
Bromochloromethane	ug/L	10	8.2	82	70-130	
Bromodichloromethane	ug/L	10	10.4	104	70-130	
Bromoform	ug/L	10	9.3	93	70-130	
Bromomethane	ug/L	10	8.9	89	70-130	
Carbon tetrachloride	ug/L	10	9.4	94	70-130	
Chlorobenzene	ug/L	10	9.6	96	70-130	
Chlorodifluoromethane	ug/L	10	12.9	129	70-130	N3
Chloroethane	ug/L	10	12.8	128	70-130	
Chloroform	ug/L	10	11.2	112	70-130	
Chloromethane	ug/L	10	11.3	113	70-130	
cis-1,2-Dichloroethene	ug/L	10	10	100	70-130	
cis-1,3-Dichloropropene	ug/L	10	11.7	117	70-130	
Dibromochloromethane	ug/L	10	8.7	87	70-130	
Dibromomethane	ug/L	10	11.3	113	70-130	
Dichlorodifluoromethane	ug/L	10	10.2	102	70-130	
Ethylbenzene	ug/L	10	10	100	70-130	
Hexachloro-1,3-butadiene	ug/L	10	8.5	85	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.6	96	70-130	
m&p-Xylene	ug/L	20	19.6	98	70-130	
Methyl-tert-butyl ether	ug/L	10	13.7	137	70-130	IH,L1
Methylene Chloride	ug/L	10	11.3	113	70-130	
n-Butylbenzene	ug/L	10	10.3	103	70-130	
n-Propylbenzene	ug/L	10	11.0	110	70-130	
o-Xylene	ug/L	10	9.5	95	70-130	
p-Isopropyltoluene	ug/L	10	9.2	92	70-130	
sec-Butylbenzene	ug/L	10	9.7	97	70-130	
Styrene	ug/L	10	9.9	99	70-130	
tert-Butylbenzene	ug/L	10	8.6	86	70-130	
Tetrachloroethene	ug/L	10	9.0	90	70-130	
Toluene	ug/L	10	10.6	106	70-130	
Total Trihalomethanes (Calc.)	ug/L		39.6			
trans-1,2-Dichloroethene	ug/L	10	9.8	98	70-130	
trans-1,3-Dichloropropene	ug/L	10	11.9	119	70-130	
Trichloroethene	ug/L	10	9.7	97	70-130	
Trichlorofluoromethane	ug/L	10	11.9	119	70-130	
Vinyl chloride	ug/L	10	12.4	124	70-130	
1,2-Dichlorobenzene-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

SAMPLE DUPLICATE: 1051565

Parameter	Units	70173101002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,1-Trichloroethane	ug/L	1.1	1.1	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	<0.50		20	N3
1,1-Dichloroethane	ug/L	9.7	9.0	8	20	
1,1-Dichloroethene	ug/L	3.4	2.9	17	20	
1,1-Dichloropropene	ug/L	<0.50	<0.50		20	
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,3-Trichloropropane	ug/L	<0.50	<0.50		20	
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,2-Dichloroethane	ug/L	0.61	0.63	4	20	
1,2-Dichloropropane	ug/L	<0.50	<0.50		20	
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,3-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,3-Dichloropropane	ug/L	<0.50	<0.50		20	
1,4-Dichlorobenzene	ug/L	<0.50	<0.50		20	
2,2-Dichloropropane	ug/L	<0.50	<0.50		20	
2-Chlorotoluene	ug/L	<0.50	<0.50		20	
4-Chlorotoluene	ug/L	<0.50	<0.50		20	
Benzene	ug/L	<0.50	<0.50		20	
Bromobenzene	ug/L	<0.50	<0.50		20	
Bromochloromethane	ug/L	<0.50	<0.50		20	
Bromodichloromethane	ug/L	<0.50	<0.50		20	
Bromoform	ug/L	<0.50	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	<0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	<0.50		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	1.9	1.7	12	20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	13.6	12.1	11	20	
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Dibromochloromethane	ug/L	<0.50	<0.50		20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

SAMPLE DUPLICATE: 1051565

Parameter	Units	70173101002 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	<0.50	<0.50		20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	1.9	1.7	12	20	
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Trichloroethene	ug/L	28.4	27.0	5	20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	80	70		20	
4-Bromofluorobenzene (S)	%	95	93		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11
Pace Project No.: 70172496

QC Batch:	208654	Analysis Method:	EPA 522
QC Batch Method:	EPA 522	Analysis Description:	522 MSS 1,4 Dioxane
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70172496001

METHOD BLANK: 1039623 Matrix: Drinking Water

Associated Lab Samples: 70172496001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	05/14/21 15:24	
1,4-Dioxane-d8 (S)	%	106	70-130	05/14/21 15:24	

LABORATORY CONTROL SAMPLE: 1039624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	83	70-130	
1,4-Dioxane-d8 (S)	%			104	70-130	

MATRIX SPIKE SAMPLE: 1039625

Parameter	Units	70172421002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	<0.020	78	70-130	
1,4-Dioxane-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 1039626

Parameter	Units	70172422002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	104	103		20	

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

QC Batch: 729209

Analysis Method: EPA 537.1

QC Batch Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70172496001, 70172496002

METHOD BLANK: 3976176

Matrix: Water

Associated Lab Samples: 70172496001, 70172496002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/16/21 02:31	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/16/21 02:31	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/16/21 02:31	
Perfluorononanoic acid	ng/L	ND	2.0	05/16/21 02:31	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/16/21 02:31	
Perfluorooctanoic acid	ng/L	ND	2.0	05/16/21 02:31	
13C2-PFDA (S)	%	105	70-130	05/16/21 02:31	
13C2-PFHxA (S)	%	94	70-130	05/16/21 02:31	
HFPO-DAS (S)	%	88	70-130	05/16/21 02:31	
NETFOSAA-d5 (S)	%	93	70-130	05/16/21 02:31	

LABORATORY CONTROL SAMPLE: 3976177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	7.2	102	70-130	
Perfluoroheptanoic acid	ng/L	8	8.1	101	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.8	107	70-130	
Perfluorononanoic acid	ng/L	8	7.6	94	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	6.6	89	70-130	
Perfluorooctanoic acid	ng/L	8	7.6	96	70-130	
13C2-PFDA (S)	%			103	70-130	
13C2-PFHxA (S)	%			99	70-130	
HFPO-DAS (S)	%			82	70-130	
NETFOSAA-d5 (S)	%			91	70-130	

LABORATORY CONTROL SAMPLE: 3976178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	102	50-150	
Perfluoroheptanoic acid	ng/L	2	1.8J	90	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	ND	107	50-150	
Perfluorononanoic acid	ng/L	2	ND	96	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.6J	89	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	92	50-150	
13C2-PFDA (S)	%			100	70-130	
13C2-PFHxA (S)	%			89	70-130	
HFPO-DAS (S)	%			80	70-130	

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

LABORATORY CONTROL SAMPLE: 3976178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NETFOSAA-d5 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 3976179

Parameter	Units	35633187001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	0.023 ug/L	6.3	30.3	113	70-130	
Perfluoroheptanoic acid	ng/L	0.016 ug/L	7.1	20.7	69	70-130	M1
Perfluorohexanesulfonic acid	ng/L	0.10 ug/L	6.4	107	44	70-130	M1
Perfluorononanoic acid	ng/L	0.0018U ug/L	7.1	6.6	83	70-130	
Perfluorooctanesulfonic acid	ng/L	0.14 ug/L	6.5	145	109	70-130	
Perfluorooctanoic acid	ng/L	0.024 ug/L	7.1	25.8	19	70-130	M1
13C2-PFDA (S)	%				100	70-130	
13C2-PFHxA (S)	%				97	70-130	
HFPO-DAS (S)	%				65	70-130	SO
NETFOSAA-d5 (S)	%				90	70-130	

SAMPLE DUPLICATE: 3976332

Parameter	Units	70172481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluoroheptanoic acid	ng/L	2.2	2.4	8	30	
Perfluorohexanesulfonic acid	ng/L	7.0	6.2	13	30	
Perfluorononanoic acid	ng/L	<1.8	<1.8		30	
Perfluorooctanesulfonic acid	ng/L	4.2	4.3	2	30	
Perfluorooctanoic acid	ng/L	4.4	4.2	5	30	
13C2-PFDA (S)	%	97	95			
13C2-PFHxA (S)	%	96	93			
HFPO-DAS (S)	%	72	71			
NETFOSAA-d5 (S)	%	103	100			

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

QC Batch: 208233

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70172496001, 70172496003

METHOD BLANK: 1036917

Matrix: Water

Associated Lab Samples: 70172496001, 70172496003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.050	05/11/21 21:58	

LABORATORY CONTROL SAMPLE: 1036918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 1036919

Parameter	Units	70172326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.53	105	90-110	

MATRIX SPIKE SAMPLE: 1036921

Parameter	Units	70172524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.70	0.5	1.1	88	90-110	M1

SAMPLE DUPLICATE: 1036920

Parameter	Units	70172326001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 1036922

Parameter	Units	70172524001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	0.70	0.70	0	20	

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QUALITY CONTROL DATA

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

QC Batch: 208236

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate, Unpres.

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70172496001, 70172496003

METHOD BLANK: 1036935

Matrix: Water

Associated Lab Samples: 70172496001, 70172496003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	05/12/21 00:02	

LABORATORY CONTROL SAMPLE: 1036936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 1036937

Parameter	Units	70172326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.7	2.5	6.2	102	90-110	

MATRIX SPIKE SAMPLE: 1036939

Parameter	Units	70172524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.4	2.5	4.5	85	90-110	M1

SAMPLE DUPLICATE: 1036938

Parameter	Units	70172326001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.7	3.7	0	20	

SAMPLE DUPLICATE: 1036940

Parameter	Units	70172524001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.4	2.0	20	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: POC/NO3/BAC/1,4/PFAS 5/11

Pace Project No.: 70172496

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70172496001	N-03185	SM22 9223B Colilert	208273	SM22 9223B Colilert	208368
70172496001	N-03185	EPA 522	208654	EPA 522	208810
70172496001	N-03185	EPA 524.2	210285		
70172496003	AS-03185	EPA 524.2	210285		
70172496001	N-03185	EPA 537.1	729209	EPA 537.1	729638
70172496002	N-03185 FB	EPA 537.1	729209	EPA 537.1	729638
70172496001	N-03185	EPA 353.2	208236		
70172496003	AS-03185	EPA 353.2	208236		
70172496001	N-03185	EPA 353.2	208233		
70172496003	AS-03185	EPA 353.2	208233		

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WO#: 70172496



70172496

Sample Request Form PUBLIC WATER SUPPLIER

Date:

5/11/2011

Collected By:

N. MURPHY DO

Accepted By:

5/11/2011

Cooler Temp:

2-7 °C 1430

Client: VILLAGE OF MINEOLA

Name or Code:

Address: WATER DEPARTMENT

42 EAST SECOND STREET

Phone #:

Attn: MINEOLA, NY 11501

Proj. # or (Name):

Bill To:

Copies To:

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☒ YES ☐ NO VOC'S PRESERVED WITH HCI

Sample Types

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

Purpose

RO - Routine
RE - Resample
S - Special

Origin

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

Treatment Types

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂ pH/Temp	Analysis	Lab No.
5-11-21/11:05	GW	Well 4 Raw	RW		RO	- 6.4/14°C	POC	N-03185
5-11-21/11:05	GW	Well 4 Raw	RW		RO	- 6.4/14°C	Nitrate	N-03185
5-11-21/11:05	GW	Well 4 Raw	RW		RO	- 6.4/14°C	BAC	N-03185
5-11-21/11:05	GW	Well 4 Raw	RW		RO	- 6.4/14°C	1-4	N-03185
5-11-21/11:05	GW	Well 4 Raw	RW		RO	- 6.4/14°C	PEOS 537	N-03185
5-11-21/11:05	GW	Well 4 Raw	RW		RO	- 6.4/14°C	PEOS 537 Blank	N-03185
5-11-21/10:50		Well 4 treated	TW	AST	RO	- 7.2/14°C	Bac Series 0,2,5,10,30	AS-03185
5-11-21/11:32		Well 4 treated	TW	AST	RO	- 7.2/14°C	POC	AS-03185
5-11-21/11:32		Well 4 treated	TW	AST	RO	- 7.2/14°C	Nitrate	AS-03185

Remarks:



Sample Condition Upon Receipt

WO#: 70172496

PM: JSA

Due Date: 05/20/21

CLIENT: MWD

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: +0.0

Cooler Temperature(°C): 2.7

Cooler Temperature Corrected(°C): 2.7

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: JSA 5/11/21 1520

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

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

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution: